Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

The Goodyear Tire & Rubber Company (CN600616049) operates Goodyear Houston Chemical Plant (RN100870898), a manufacturer of emulsion styrene-butadiene rubber. The facility is located at 2000 Goodyear Drive, in Houston, Harris County, Texas 77017. The facility is requesting a renewal of its existing wastewater permit with a minor amendment to remove internal outfall 101 for sanitary sewage which is no longer discharging. *<<For TLAP applications include the following sentence, otherwise delete:>>*

Discharges from the facility are expected to contain temperature, total suspended solids, ammonia as nitrogen, carbonaceous biochemical oxygen demand, oil and grease, total chromium, total copper, free cyanide, phenols, total zinc and pH. Process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater is treated by a primary solids separator, thence to a series of aerated and non-aerated lagoons.

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

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

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

Goodyear Tire & Rubber Company ((CN600616049)) opera Goodyear Houston Chemical Plant (RN100870898), un fabricante de caucho de estireno-butadieno en emulsión. La instalación está ubicada en 2000 Goodyear Drive, en Houston, Condado de Harris, Texas 77017. La instalación está solicitando una renovación de su permiso de aguas residuales existente con una enmienda menor para eliminar el emisario interno 101 para aguas residuales sanitarias que ya no descarga. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>*

Se espera que las descargas de la instalación contengan temperatura, sólidos suspendidos totales, amoníaco como nitrógeno, demanda bioquímica de oxígeno carbonoso, aceite y grasa, cromo total, cobre total, cianuro libre, fenoles, zinc total y pH. Las aguas residuales del proceso mezcladas con desechos diversos de limpieza, purga de torres de enfriamiento tratadas y aguas pluviales tratadas se tratan mediante un separador primario de sólidos y de allí a una serie de lagunas aireadas y no aireadas. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0000520000

APPLICATION. The Goodyear Tire & Rubber Company, P.O. Box 5397, Houston, Texas 77262, which owns an emulsion crumb rubber and latex manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000520000 (EPA I.D. No. TX0003689) to authorize the discharge of treated wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater at a volume not to exceed a daily average flow of 2,900,000 gallons per day via Outfall 001; and the discharge of stormwater at an intermittent and flow variable rate via Outfall 002. The facility is located at 2000 Goodyear Drive, in the city of Houston, in Harris County, Texas 77017. The discharge route is from the plant site to Sims Bayou Tidal, which is portion of the Houston Ship Channel/Buffalo Bayou Tidal. TCEQ received this application on April 19, 2024. The permit application will be available for viewing and copying at TCEQ Region 12, 3rd floor, 5425 Polk Avenue, Suite H, Houston, 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/cafo-applicationsThis link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.256388,29.704166&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the

opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

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

Further information may also be obtained from The Goodyear Tire & Rubber Company at the address stated above or by calling Mr. Charlie Mingo, Environmental Team Lead, at 409-794-5282.

Issuance Date: June 20, 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. WQ000520000

SOLICITUD. The Goodyear Tire & Rubber Company, P.O. Box 5397, Houston, Texas 77262, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0000520000 (EPA I.D. No. TX0003689) 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 2,900,000 million galones por día. La instalación está ubicada en 2000 Goodyear Drive, en la ciudad de Houston, en el condado de Harris, Texas 77017. La ruta de descarga es desde el sitio de la planta hasta Sims Bayou Tidal, parte del Canal de Navegación de Houston/Buffalo Bayou Tidal. TCEQ recibió esta solicitud el 19 de abril de 2024. La solicitud de permiso estará disponible para su visualización y copia en TCEQ Región 12, 3er piso, 5425 Polk Avenue, Suite H, Houston, Texas antes de la fecha en que se publique 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=-95.256388,29.704166&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.

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

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

También se puede obtener más información de The Goodyear Tire & Rubber Company en la dirección indicada anteriormente o llamando al Sr. Charlie Mingo, Líder del Equipo Ambiental, al 409-794-5282.

Fecha de emission 20 de junio de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

RENEWAL

PERMIT NO. WQ0000520000

APPLICATION AND PRELIMINARY DECISION. G-3 Chickadee Purchaser, LLC, 2000 Goodyear Drive, Houston, Texas 77017, which operates Goodyear Houston Chemical Plant, an emulsion Styrene Butadiene (SBR) crumb rubber and concentrated latex products manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000520000, which authorizes the discharge of treated process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater, and stormwater at a daily average flow not to exceed 2,9000.000 gallons per day via Outfall 001; and storm water on an intermittent and flow variable basis via Outfall 002. The TCEQ received this application on April 19, 2024.

The facility is located at 2000 Goodyear Drive, in the City of Houston, Harris County, Texas 77017. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.256388,29.704166&level=18

The effluent is discharged to Sims Bayou Tidal, which is a portion of the Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin. The designated uses for Segment No. 1007 are navigation and industrial water supply.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at TCEQ Region 12, 3rd floor, 5425 Polk Avenue, Suite H, Houston, Texas. 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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the 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 public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments, along with the Executive Director's decision on the application, will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

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

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

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.**

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at https://www.tceq.texas.gov/goto/comment/ or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. 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 https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from G-3 Chickadee Purchaser, LLC at the address stated above or by calling Mr. Hector Escobar, Environmental Manager - EHS, at 713-475-7694.

Issued: November 19, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES INDUSTRIALES

RENOVACIÓN

PERMISO NO. WQ0000520000

SOLICITUD Y DECISIÓN PRELIMINAR. G-3 Chickadee Purchaser, LLC, 2000 Goodyear Drive, Houston, Texas 77017, que opera Houston Chemical Plant, una planta de fabricación de productos de caucho granulado de estireno-butadieno (SBR) en emulsión y látex concentrado ha aplicado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación del Permiso No. WQ0000520000 para autorizar el Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES), que autoriza la descarga de aguas residuales tratadas del proceso, mezcladas con diversos desechos de limpieza, purga tratada de torres de enfriamiento, aguas pluviales tratadas y aguas pluviales a un caudal promedio diario que no exceda los 29 000 000 galones por día a través del emisario 001; y aguas pluviales de forma intermitente y con caudal variable a través del emisario 002. La TCEQ recibió esta solicitud el 19 de abril de 2024.

Las instalaciones se encuentran en 2000 Goodyear Drive, en la ciudad de Houston, condado de Harris, Texas 77017. Este enlace a un mapa electrónico de la ubicación general del sitio o de las instalaciones se proporciona a título informativo y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.256388,29.704166&level=18

El efluente se descarga en el canal de mareas de Sims Bayou, que forma parte del canal de navegación de Houston/canal de mareas de Buffalo Bayou en el segmento no. 1007 de la cuenca del río San Jacinto. Los usos designados para el segmento no. 1007 son la navegación y el abastecimiento de agua industrial.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en TCEQ Región 12, 3er piso, 5425 Polk Avenue, Suite H, Houston, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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 PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para los comentarios públicos, el director ejecutivo considerará los comentarios y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **La respuesta a los comentarios, junto con la decisión del director ejecutivo sobre la solicitud, se enviará por correo a todos los que enviaron comentarios públicos o que solicitaron estar en una lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o reconsiderar la decisión del director ejecutivo.** Una audiencia de caso disputado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

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.

La Comisión otorgará solamente una audiencia administrativa de lo contencioso sobre los hechos reales disputados del caso que son pertinentes y esenciales para la decisión de la Comisión sobre la solicitud. Además, la Comisión sólo otorgará una audiencia administrativa de lo contencioso sobre los asuntos que fueron presentados antes del plazo de vencimiento y que no fueron retirados posteriormente. **Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia de caso impugnado oportunamente o una solicitud de reconsideración. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el Director Ejecutivo no emitirá la aprobación final del permiso y enviará la solicitud y la petición a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo para que esta solicitud reciba avisos públicos futuros enviadas por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Para ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a la Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a https://www.tceq.texas.gov/goto/comment/ dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www.tceq.texas.gov/goto/comment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del G-3 Chickadee Purchaser, LLC en la dirección indicada arriba o llamando a Mr. Hector Escobar, Environmental Manager - EHS, al 713-475-7694.

Fecha de emisión 19 de noviembre de 2025

The Goodyear Tire & Rubber Company
HOUSTON CHEMICAL PLANT
2000 GOODYEAR DRIVE
HOUSTON, TEXAS 77017

Your Ref.: WQ0000520000
GHD Ref.: 12634521-TCEQ-1

April 18, 2024

Texas Commission on Environmental Quality
Executive Director
Applications Review and Processing Team, MC-148
12100 Park 35 Circle
Austin, Texas 78753

Industrial Wastewater Discharge Permit Application Renewal with Minor Amendment
The Goodyear Tire & Rubber Company - Goodyear Houston Chemical Plant
TPDES Permit No. WQ0000520000
CN604531012
RN100883024

Dear Sir or Madam:

The Goodyear Tire & Rubber Company (Goodyear) submits the enclosed permit application (Attachment A) in support of the renewal of Texas Pollutant Discharge Elimination System (TPDES) Industrial Discharge Permit No. WQ0000520000 (Permit) for the Goodyear Houston Chemical Plant located at 2000 Goodyear Drive, Houston, Harris County, Texas (Site).

Goodyear manufactures emulsion Styrene Butadiene (SBR) crumb rubber and concentrated SBR latex products. Goodyear is requesting a renewal of the current permit with a minor amendment to remove internal Outfall 101. Internal Outfall 101 is no longer required.

The enclosed Industrial Wastewater Discharge Permit Application packet includes one copy with wet original signatures and two copies of the application packet. An electronic version of the application packet will also be provided to the Texas Commission on Environmental Quality (TCEQ).

Please note that the enclosed Industrial Wastewater Discharge Permit Application packet does not include completed Industrial Wastewater Permit Application Worksheet 2.0: Pollutant Analysis and Worksheet 7.0 Stormwater Discharges Associated with Industrial Activities. Sampling is in progress but has not been completed. The results of the pollutant analyses are not yet available and will be provided to TCEQ at a future date.

Should you have any questions regarding the above information, please do not hesitate to contact Charlie Mingo of Goodyear at (409) 794-5282.

Regards,

Charlie Mingo

Charlie Mingo
Chemical Business Team Leader Environmental

BD/jlf/1

Encl.: Attachment A - TPDES Industrial Wastewater Discharge Permit Application

Attachment A

TPDES Industrial Wastewater Discharge Permit Application

TCEQ - Industrial Wastewater Permit Application Checklist

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: The Goodyear Tire & Rubber Company

PERMIT NUMBER (If new, leave blank): WQ00 00520000

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

	Y	N
Administrative Report 1.0	☒	☐
Administrative Report 1.1	☐	☒
SPIF	☒	☐
Core Data Form	☒	☐
Public Involvement Plan Form	☐	☒
Plain Language Summary	☒	☐
Technical Report 1.0	☒	☐
Worksheet 1.0	☒	☐
Worksheet 2.0	☒	☐
Worksheet 3.0	☐	☒
Worksheet 3.1	☐	☒
Worksheet 3.2	☐	☒
Worksheet 3.3	☐	☒
Worksheet 4.0	☒	☐
Worksheet 4.1	☐	☒
Worksheet 5.0	☐	☒
Worksheet 6.0	☐	☒
Worksheet 7.0	☒	☐
Worksheet 8.0	☐	☒
Worksheet 9.0	☐	☒
Worksheet 10.0	☐	☒
Worksheet 11.0	☐	☒
Worksheet 11.1	☐	☒
Worksheet 11.2	☐	☒
Worksheet 11.3	☐	☒
Original USGS Map	☒	☐
Affected Landowners Map	☐	☒
Landowner Disk or Labels	☐	☒
Flow Diagram	☒	☐
Site Drawing	☒	☐
Original Photographs	☒	☐
Design Calculations	☐	☒
Solids Management Plan	☐	☒
Water Balance	☒	☐

For TCEQ Use Only

Segment Number _____ County _____

Expiration Date _____ 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 (TCEQ Form-20893 and 20893-inst[1]).

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

a. Complete each field with the requested information, if applicable.

Applicant Name: The Goodyear Tire & Rubber Company

Permit No.: WQ0000520000

EPA ID No.: TX003689

Expiration Date: October 16, 2024

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.

☒ Active ☐ 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

☒ Renewal with changes

☐ Renewal without changes

☐ Major amendment with renewal

☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Remove outfall 101.

For TCEQ Use Only

Segment Number _____ County _____

Expiration Date _____ Region _____

Permit Number _____

[1] https://www.tceq.texas.gov/publications/search_forms.html

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 (40 CFR Parts 400-471)	☐ $350	☐ $350	☐ $315	☐ $150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $1,250	☐ $1,250	☐ $1,215	☐ $150
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.: Click to enter text.

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

Epay

Voucher number: 699673. 699674

Copy of voucher attachment: Attachment 1a, 1b

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600616049

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: The Goodyear Tire & Rubber Company

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: Mr. Full Name (Last/First Name): Thomas V. Baldauf

Title: Site Manager Credential: Click to enter 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] https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

☒ Yes ☐ No

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, 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): CNClick to enter text.

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 co-applicant, 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 co-applicant(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: See attached Core Data Form

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. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Charlie Mingo

Title: Environmental Team Lead Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 11357 IH-10 SW at Smith Road City/State/Zip: Beaumont/Texas/77705

Phone No: 409.794.5282 Email: charlie_mingo@goodyear.com

b. ☒ Administrative Contact ☐ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Thomas V. Baldauf

Title: Site Manager Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 2000 Goodyear Drive City/State/Zip: Houston/Texas/77017

Phone No: 713.475.5401 Email: tom_baldauf@goodyear.com

Attachment: N/A

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

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

a. Prefix: Mr. Full Name (Last/First Name): Charlie Mingo

Title: Environmental Team Lead Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 11357 IH-10 at Smith Road City/State/Zip: Beaumont/Texas/77705

Phone No: 409.794.5282 Email: charlie_mingo@goodyear.com

b. Prefix: Mr. Full Name (Last/First Name): Thomas V. Baldauf

Title: Site Manager Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 2000 Goodyear Drive City/State/Zip: Houston/Texas/77017

Phone No: 713.475.5401 Email: tom_baldauf@goodyear.com

Attachment: N/A

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: Mr. Full Name (Last/First Name): Charlie Mingo

Title: Environmental Team Lead Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 11357 IH-10 at Smith Road City/State/Zip: Beaumont/Texas/77705

Phone No: 409.794.5282 Email: charlie_mingo@goodyear.com

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: Mr. Full Name (Last/First Name): Timothy Roberson

Title: Environmental Technician - skilled Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 11357 I-10 City/State/Zip: Beaumont/Texas/77705

Phone No: 409.794.5429 Email: timothy_roberson@goodyear.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Charlie Mingo

Title: Environmental Team Lead Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: 11357 IH-10 at Smith oad City/State/Zip: Houston/Texas/77705

Phone No: 409.794.5282 Email: charlie_mingo@goodyear.com

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: Charlie_mingo@goodyear.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 11357 IH-10 at Smith Road

City/State/Zip Code: Beaumont/Texas/77705

c. Contact in the Notice

Prefix: Click to enter text. Full Name (Last/First Name): Charlie Mingo

Title: Environmental Team Lead Credential: Click to enter text.

Organization Name: The Goodyear Tire & Rubber Company

Phone No: 409.794.5282 Email: charlie_mingo@goodyear.com

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: TCEQ – Region 12 Location within the building: 3rd Floor

Physical Address of Building: 5425 Polk Avenue, Suite H

City: Houston County: Harris

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? Spanish

f. Plain Language Summary Template - Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Click to enter text.

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: RN100870898

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. Search the 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): Goodyear Houston Chemical Plant

c. Is the location address of the facility in the existing permit the same?

☒ Yes ☐ No ☐ 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: N/A Full Name (Last/First Name): N/A

or Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: PO Box 5397 City/State/Zip: Houston/Texas/77262

Phone No: Click to enter text. Email: Click to enter text.

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Click to enter text.

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

or Organization Name: The Goodyear Tire & Rubber Company

Mailing Address: PO Box 5397 City/State/Zip: Houston/Texas/77262

Phone No: Click to enter text. Email: Click to enter text.

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: N/A

g. Owner of effluent TLAP disposal site (if applicable): N/A

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

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

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

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

Prefix: N/A Full Name (Last/First Name): Click to enter text.

or Organization Name: N/A

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

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

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

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☒ All wastewater ponds

☐ New and future construction

Attachment: See Administrative Report Attachment A

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: N/A

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: Click to enter text.

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: Click to enter text.

f. City nearest the outfall(s): Houston

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

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: Click to enter text.

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

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

☐ Yes No or New Permit ☐ N/A

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

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

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

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Click to enter text.

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

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: Barbara Sullivan, GHD, Inc.

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0000520000

Applicant Name: The Goodyear Tire & Rubber Company

Certification: I, Thomas V. Baldauf, 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): Thomas V. Baldauf

Signatory title: Site Manager

Signature: Ron Legge for Tom Baldauf Date: 4/18/24
(Use blue ink)

Subscribed and Sworn to before me by the said RON Legge

on this 18th day of April, 2024.

My commission expires on the 3/13/27 day of March, 2027.

Joyce Terrell
Notary Public

Harris
County, Texas

[SEAL] JOYCE TERRELL
Notary ID #124124349
My Commission Expires
March 13, 2027

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Item 1. Affected Landowner Information (Instructions, Page 35)

a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.

- ☐ The applicant's property boundaries.
- ☐ The facility site boundaries within the applicant's property boundaries.
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
- ☐ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
- ☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
- ☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: Click to enter text.

b. Check the box next to the format of the landowners list:

☐ Readable/Writeable CD ☐ Four sets of labels

Attachment: Click to enter text.

d. Provide the source of the landowners' names and mailing addresses: Click to enter text.

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

☐ Yes ☐ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

☐ At least one original photograph of the new or expanded treatment unit location.

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site.

☐ A plot plan or map showing the location and direction of each photograph.

Attachment: Click to enter text.

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: Supplemental Information Form

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ0000520000

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Goodyear Houston Chemical Plant

   Physical Address of Project or Site: 2000 Goodyear Drive, Houston, Texas

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., or Miss): Click to enter text.

Full legal name (first, middle, and last): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

☒ Correct and Current Industrial Wastewater Permit Application Forms
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☒ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

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

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

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

Things to Know:

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

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

☒ N/A ☐ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)

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

☒ Plain Language Summary

TCEQ - Industrial Wastewater Permit Application Technical Report 1.0

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 Instructions for Completing the Industrial Wastewater Permit Application[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).

Manufacturer of emulsion Styrene Butadiene (SBR) crumb rubber and concentrated SBR latex products.

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

See Attachment 2.

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

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

Materials List

Raw Materials	Intermediate Products	Final Products
1,3 -Butadiene		SBR Crumb Rubber
Styrene		Concentrated SBR Latex
Fatty Resin Acids		
Oils		
See Attachment 3 for additional information		

Attachment: See Attachment 3 for additional information

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: See Attachment 4

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: N/A

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: Harris County Flood Education Mapping Tool, FEMA National Flood Hazard Map – 48201C0885N

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: The elevation of the 100-year floodplain is 21 feet. In the event of flooding condition, the Houston Plant will cease production to minimize the impact of potential flooding of the treatment facility.

Attachment: N/A

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?

☐ Yes ☒ No ☐ 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.

See Attachment 5.

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: See Attachments 6a and 6b

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).

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				

Parameter	Pond #	Pond #	Pond #	Pond #
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: See Attachment 7

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 high-water table in the shallowest water-bearing zone.

Attachment: N/A

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: N/A

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: N/A

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.

Attachment: N/A

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 Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29.705555	95.257500
002	29.705277	95.258333

Outfall Location Description

Outfall No.	Location Description
001	At end of a discharge pipe prior to discharge into Sims Bayou.
002	At the weir outlet of the stormwater basin, prior to discharge into concrete ditch.

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

Outfall No.	Description of sampling point
N/A	

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	2.9	4.5	N/A	N/A	Current
002	Report	Report	N/A	N/A	Current

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	N	Y	Kennison Nozzle
002	N	Y	Rectangular Weir

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	N	Y	24	31	12
002	Y	N	N	---	---	---

Outfall Wastestream Contributions

Outfall No. **001**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Process Wastewater	1.42	78.4%
Cooling Tower Blowdown	0.207	11.4%
Stormwater runoff	0.185	10.2%

Outfall No. **002**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff from process areas and dry weather flow form washdown activities	Intermittent	100

Outfall No. **N/A**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: N/A

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

a. Indicate if the facility currently or proposes to:

☒ Yes ☐ No Use cooling towers that discharge blowdown or other wastestreams

☐ Yes ☒ 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: See Attachment 8 (Affects Outfall 001 only)

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	4	186,485	206,513
Boilers	N/A	N/A	N/A

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: All production activities are conducted within covered structures and are not subject to exposure or precipitation. See Attachment 9 for additional details.

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: The Houston plant has closed and demolished the domestic wastewater treatment system and drying bed. The plant is connected to the City of Houston POTW via a lift station to discharge untreated domestic wastewater from the Houston Plant.

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 Houston – Sims Bayou	WQ0010495002

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: A lift station to pump untreated sanitary wastewater to the City of Houston collection system and POTW has been constructed and put into operation. The domestic wastewater treatment plant (internal outfall 101) has been demolished. A Notice of Completion and Closure Report was submitted to the TCEQ on April 6, 2022.

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: See Attachment 10

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

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: Click to enter text.

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				
Owner				
Operator				

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: PWS No. Click to enter text.

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.

Internal Outfall 101 for domestic sanitary sewage –The Goodyear Houston Chemical Plant has closed and demolished the domestic wastewater system and drying bed. A Notice of Closure and Completion Report was submitted to the TCEQ on April 6, 2022. Facility sanitary wastewater is now connected to the City of Houston Publicly Owned Treatment Works (POTW) via an on-site lift station to discharge untreated domestic sewage from the Houston Plant. There are no longer any discharges from internal outfall 101. Goodyear requests the removal of all monitoring and reporting requirements associated with outfall 101. Classification as a minor amendment is based on the review of the definition of a minor amendment under 40 CFR 122.63 and 30 TAC 305.62(c)(3). The request is for the removal of an outfall when the discharge from that outfall is terminated.

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

☐ Yes ☒ No

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

N/A

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

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

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

CERTIFICATION:

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

Printed Name: Click to enter text.

Title: Click to enter text.

Signature: _____

Date: _____

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
Emulsion crumb rubber	428 Subpart B
SBR LTEX	428 Subpart D

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.

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
SBR Crumb Rubber	837,422	1,200,000	Lbs./day
SBR Latex	147,711	211,000	Lbs./day

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

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 metal-bearing 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
N/A	N/A	N/A	N/A

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

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 11.

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.

Wastewater Generating Processes Subject to Effluent Guidelines

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced
SBR Crumb Rubber	428	B	1943
SBR Latex	428	D	1979

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): Sampling has not been completed. Sample dates and results of analyses will be provided at a future date.

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:** Sample results pending and will be submitted at a future date.

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.: 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
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				

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: 001 **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)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					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.: 001 **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
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
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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
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
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					10

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

(*) Indicate units if different from µg/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.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)	N/A	N/A	N/A	N/A	0.010
Enterococci (cfu or MPN/100 mL)	N/A	N/A	N/A	N/A	N/A
E. coli (cfu or MPN/100 mL)	N/A	N/A	N/A	N/A	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
Dieldrin					0.02

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [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.: 001 Samples are (check one): ☐ Composite ☐ Grab

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	☐	☒	N/A	N/A	N/A	N/A	400
Color (PCU)	☒	☐					—
Nitrate-Nitrite (as N)	☒	☐					—
Sulfide (as S)	☐	☒	N/A	N/A	N/A	N/A	—
Sulfite (as SO3)	☐	☒	N/A	N/A	N/A	N/A	—
Surfactants	☒	☐					—
Boron, total	☐	☒	N/A	N/A	N/A	N/A	20
Cobalt, total	☐	☒	N/A	N/A	N/A	N/A	0.3
Iron, total	☒	☐					7
Magnesium, total	☒	☐					20
Manganese, total	☒	☐					0.5
Molybdenum, total	☒	☐					1
Tin, total	☐	☒	N/A	N/A	N/A	N/A	5
Titanium, total	☐	☒	N/A	N/A	N/A	N/A	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

Industrial 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
☐ 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.: 001 **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)
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
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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
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.: 001 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)
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.

Table 10 for Outfall No.: 001 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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
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
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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A 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
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
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 µg/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
- ☒ None of the above

Description: Click to enter text.

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.

Table 12 for Outfall No.: N/A **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-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
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.: 001 **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
Styrene	100-42-5					

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: Click to enter text.

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: Approximately 237 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: N/A

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: N/A

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.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: N/A

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☐ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Click to enter text.

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

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: Click to enter text.

Date and time of observation: Click to enter text.

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 7.0: STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

This worksheet **is required** for all TPDES permit applications requesting individual permit coverage for discharges consisting of **either**: 1) solely of stormwater discharges associated with industrial activities, as defined in *40 CFR § 122.26(b)(14)(i-xi)*, **or** 2) stormwater discharges associated with industrial activities and any of the listed allowable non-stormwater discharges, as defined in the MSGP (TXR05000), Part II, Section A, Item 6.

Discharges of stormwater as defined in *40 CFR § 122.26 (b)(13)* are not required to obtain authorization under a TPDES permit (see exceptions at *40 CFR §§ 122.26(a)(1)* and *(9)*). Authorization for discharge may be required from a local municipal separate storm sewer system.

Item 1. Applicability (Instructions, Page 89)

Do discharges from any of the existing/proposed outfalls consist either 1) solely of stormwater discharges associated with industrial activities **or** 2) stormwater discharges associated with industrial activities and any of the allowable non-stormwater discharges?

☒ Yes ☐ No

If **no**, stop here. If **yes**, proceed as directed.

Item 2. Stormwater Coverage (Instructions, Page 89)

List each existing/proposed stormwater outfall at the facility and indicate which type of authorization covers or is proposed to cover discharges.

Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
002	☐	☒
003-012	☒	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

If **all** existing/proposed outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) are **authorized under the MSGP, stop** here.

If **seeking authorization** for any outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) **under an individual permit, proceed.**

NOTE: The following information is required for each existing/proposed stormwater outfall for which the facility is seeking individual permit authorization under this application

Item 3. Site Map (Instructions, Page 90)

Attach a site map or maps (drawn to scale) of the entire facility with the following information.

- the location of each stormwater outfall to be covered by the permit
- an outline of the drainage area that is within the facility's boundary and that contributes stormwater to each outfall to be covered by the permit
- connections or discharge points to municipal separate storm sewer systems
- locations of all structures (e.g. buildings, garages, storage tanks)
- structural control devices that are designed to reduce pollution in discharges of stormwater associated with industrial activities
- process wastewater treatment units (including ponds)
- bag house and other air treatment units exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)
- landfills; scrapyards; surface water bodies (including wetlands)
- vehicle and equipment maintenance areas
- physical features of the site that may influence discharges of stormwater associated with industrial activities or contribute a dry weather flow
- locations where spills or leaks of reportable quality (as defined in *30 TAC § 327.4*) have occurred during the three years before this application was submitted to obtain coverage under an individual permit
- processing areas, storage areas, material loading/unloading areas, and other locations where significant materials are exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)

☒ Check the box to confirm all above information was provided on the facility site map(s).

Attachment: See Attachment 12

Item 4. Facility/Site Information (Instructions, Page 90)

a. Provide the area of impervious surface and the total area drained by each stormwater outfall requested for authorization by this permit application.

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
002	20 Acres	37.2 Acres

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)

b. Provide the following local area rainfall information and the source of the information.

Wettest month: June

Average rainfall for wettest month (total inches): 7.9 inches

25-year, 24-hour rainfall (inches): 12.0 inches

Source: National Centers for Environmental Information (National Oceanic and Atmospheric Administration - NOAA); NOAA Hydrometeorological Design Studies Center

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** All production activities, including material handling, are conducted under covered structures or enclosed vessels and are not subject to exposure or precipitation.

d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment:** All production activities, including materials handling, are conducted under covered structures and are not subject to exposure or precipitation. See Attachment 9 for additional discussion.

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: Collection and treatment of stormwater run-off originating form process area prior to discharge to receiving stream.

Item 5. Pollutant Analysis (Instructions, Page 91)

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): To be determined – sample results not yet available

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Complete Table 17 as directed on page 92 of the Instructions.

Table 17 for Outfall No.: 002

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids						—
Chemical oxygen demand						—
Total organic carbon						—

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
Oil and grease						—
Arsenic, total						0.0005
Barium, total						0.003
Cadmium, total						0.001
Chromium, total						0.003
Chromium, trivalent						—
Chromium, hexavalent						0.003
Copper, total						0.002
Lead, total						0.0005
Mercury, total						0.000005
Nickel, total						0.002
Selenium, total						0.005
Silver, total						0.0005
Zinc, total						0.005

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

d. Complete Table 18 as directed on pages 92-94 of the Instructions.

Table 18 for Outfall No.: 002

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled
BOD (5-day)					
Nitrate-nitrite					
Iron					
Aluminum					
Ammonia nitrogen					
CBOD					
Cyanide, Free					
Phenols					
Magnesium					
Molybdenum					

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled
Phosphorous					

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

Attachment: Click to enter text.

Item 6. Storm Event Data (Instructions, Page 93)

Provide the following data for the storm event(s) which resulted in the maximum values for the analytical data submitted:

Date of storm event: To be determined – sample results not yet available

Duration of storm event (minutes): Click to enter text.

Total rainfall during storm event (inches): Click to enter text.

Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours): Click to enter text.

Maximum flow rate during rain event (gallons/minute): Click to enter text.

Total stormwater flow from rain event (gallons): Click to enter text.

Provide a description of the method of flow measurement or estimate:

Supplemental Information Form

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: The Goodyear Tire & Rubber Company

   Permit No. WQ00 00520000 EPA ID No. TX 0003689

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

   2000 Goodyear Drive, Houston, Texas 77017. The site is located approximately 1/2 mile from the intersection of Highway 225 and Interstate Loop 610 in Harris County.

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

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

First and Last Name: Charlie Mingo

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

Title: Chemical Business Team Leader Environmental

Mailing Address: 11357 IH-10 SW at Smith Road

City, State, Zip Code: Beaumont, Texas 77705N/

Phone No.: 409-794-5282 Ext.: N/A Fax No.: 409-794-5365

E-mail Address: Charlie_Mingo@goodyear.com

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

N/A

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

Discharge to Sims Bayou Tidal, which is a portion of the Houston Ship Channel / Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

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

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

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

☐ Disturbance of vegetation or wetlands

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

None

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

N/A

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

Attachment A

SPIF - USGS Maps

SPIF Attachment A

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

PARK PLACE QUADRANGLE
TEXAS-HARRIS CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R
10 000-Foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery ..... NAIP, October 2014
Roads ..... U.S. Census Bureau, 2014 - 2015
Names ..... GNIS, 2015
Hydrography ..... National Hydrography Dataset, 2014
Contours ..... National Elevation Dataset, 2010
Boundaries ..... Multiple sources; see metadata file 1972 - 2015

Wetlands ..... FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2015 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100 000-m Square ID
TM
Grid Zone Designation 15R

SCALE 1:24 000

KILOMETERS 0 0.5 1
METERS 0 500 1000 2000
MILES 0 0.5 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

ADJOINING QUADRANGLES

1	2	3
4		5
6	7	8

1 Houston Heights
2 Sebastopol
3 Jacinto City
4 Bellaire
5 Pasadena
6 Alvin
7 Pearland
8 Friendswood

PARK PLACE, TX
2016

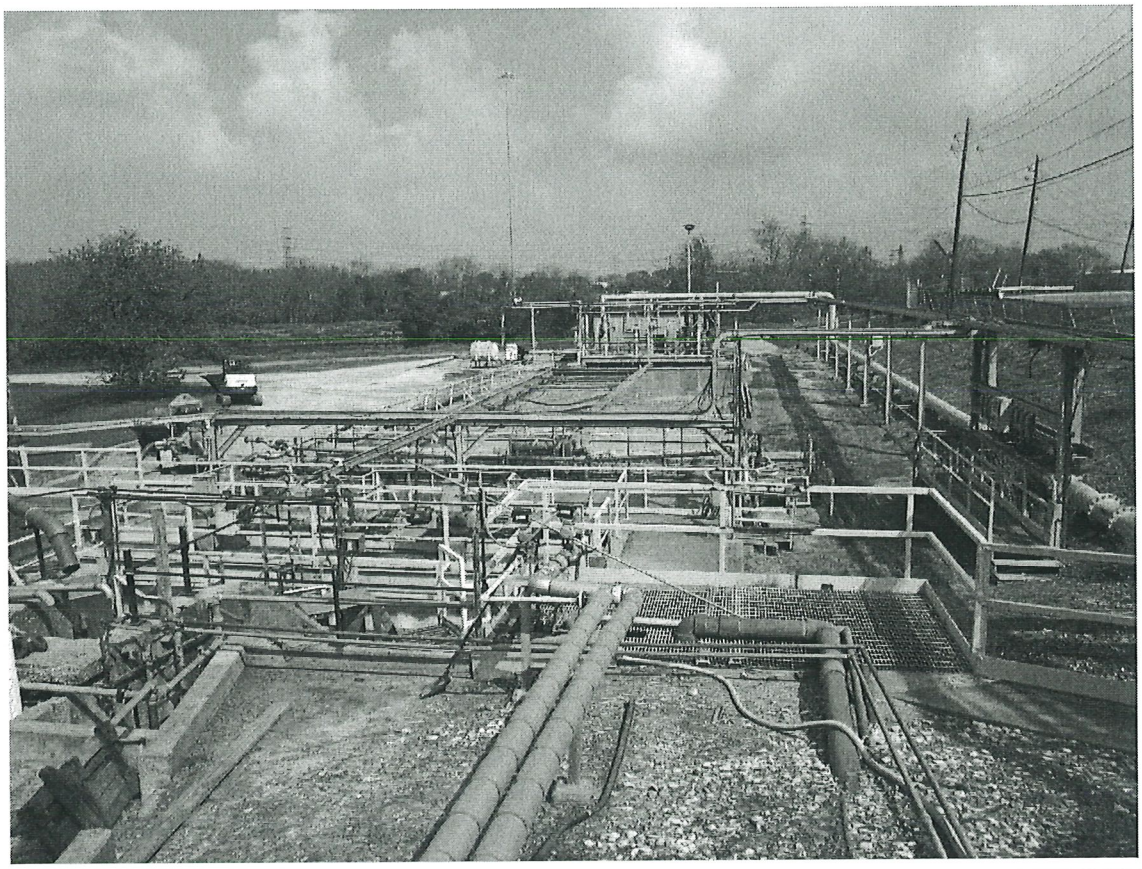
SPIF Attachment A

Attachment B

Photographic Log

SPIF Attachment B
Original Photographs of Structures 50 Years Old or Older

Tradewaste Wastewater Treatment Plant - Primary Solids Separator



Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

1.1 SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600616049		RN 100870898

1.2 SECTION II: Customer Information

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

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

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

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

The Goodyear Tire & Rubber Company

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
001785806	1-34-025324	34-025324	004467924

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees ☐ 0-20 ☐ 21-100 ☐ 101-250 ☒ 251-500 ☐ 501 and higher

13. Independently Owned and Operated? ☒ Yes ☐ No

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

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

15. Mailing Address: PO Box 5397

City	Houston	State	TX	ZIP	77262	ZIP + 4	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*

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

1.3 SECTION III: Regulated Entity Information

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

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

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

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

Goodyear Houston Chemical Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	2000 Goodyear Drive							
	City	Houston	**State**	TX	**ZIP**	77017	**ZIP + 4**	
24. County								

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

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

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
2822	N/A	325212	N/A

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

Make emulsion styrene-butadiene rubber

34. Mailing Address:	PO Box 5397							
	City	Houston	**State**	TX	**ZIP**	77262	**ZIP + 4**	
35. E-Mail Address:								

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

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ000520000			

SECTION IV: Preparer Information

40. Name:	Barbara Sullivan	**41. Title:**	Sr. Comp Spec - Water GHD, Inc

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(832) 485-5219		( ) -	barbara.sullivan@ghd.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:	The Goodyear Tire & Rubber Company	**Job Title:**	OPERATIONS MANAGER
Name *(In Print):*	RONALD W. LEGGE	**Phone:**	(713) 475-5353
Signature:	Ronald W. Legge	**Date:**	4/18/24

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

The Goodyear Tire & Rubber Company (CN600616049) operates Goodyear Houston Chemical Plant (RN100870898), a manufacturer of emulsion styrene-butadiene rubber. The facility is located at 2000 Goodyear Drive, in Houston, Harris County, Texas 77017. The facility is requesting a renewal of its existing wastewater permit with a minor amendment to remove internal outfall 101 for sanitary sewage which is no longer discharging. *<<For TLAP applications include the following sentence, otherwise delete:>>*

Discharges from the facility are expected to contain temperature, total suspended solids, ammonia as nitrogen, carbonaceous biochemical oxygen demand, oil and grease, total chromium, total copper, free cyanide, phenols, total zinc and pH. Process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater is treated by a primary solids separator, thence to a series of aerated and non-aerated lagoons.

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

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

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

Goodyear Tire & Rubber Company ((CN600616049)) opera Goodyear Houston Chemical Plant (RN100870898), un fabricante de caucho de estireno-butadieno en emulsión. La instalación está ubicada en 2000 Goodyear Drive, en Houston, Condado de Harris, Texas 77017. La instalación está solicitando una renovación de su permiso de aguas residuales existente con una enmienda menor para eliminar el emisario interno 101 para aguas residuales sanitarias que ya no descarga. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>*

Se espera que las descargas de la instalación contengan temperatura, sólidos suspendidos totales, amoníaco como nitrógeno, demanda bioquímica de oxígeno carbonoso, aceite y grasa, cromo total, cobre total, cianuro libre, fenoles, zinc total y pH. Las aguas residuales del proceso mezcladas con desechos diversos de limpieza, purga de torres de enfriamiento tratadas y aguas pluviales tratadas se tratan mediante un separador primario de sólidos y de allí a una serie de lagunas aireadas y no aireadas. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example

Individual Industrial Wastewater Application

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Administrative Report

Administrative Report Attachment A

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15N
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

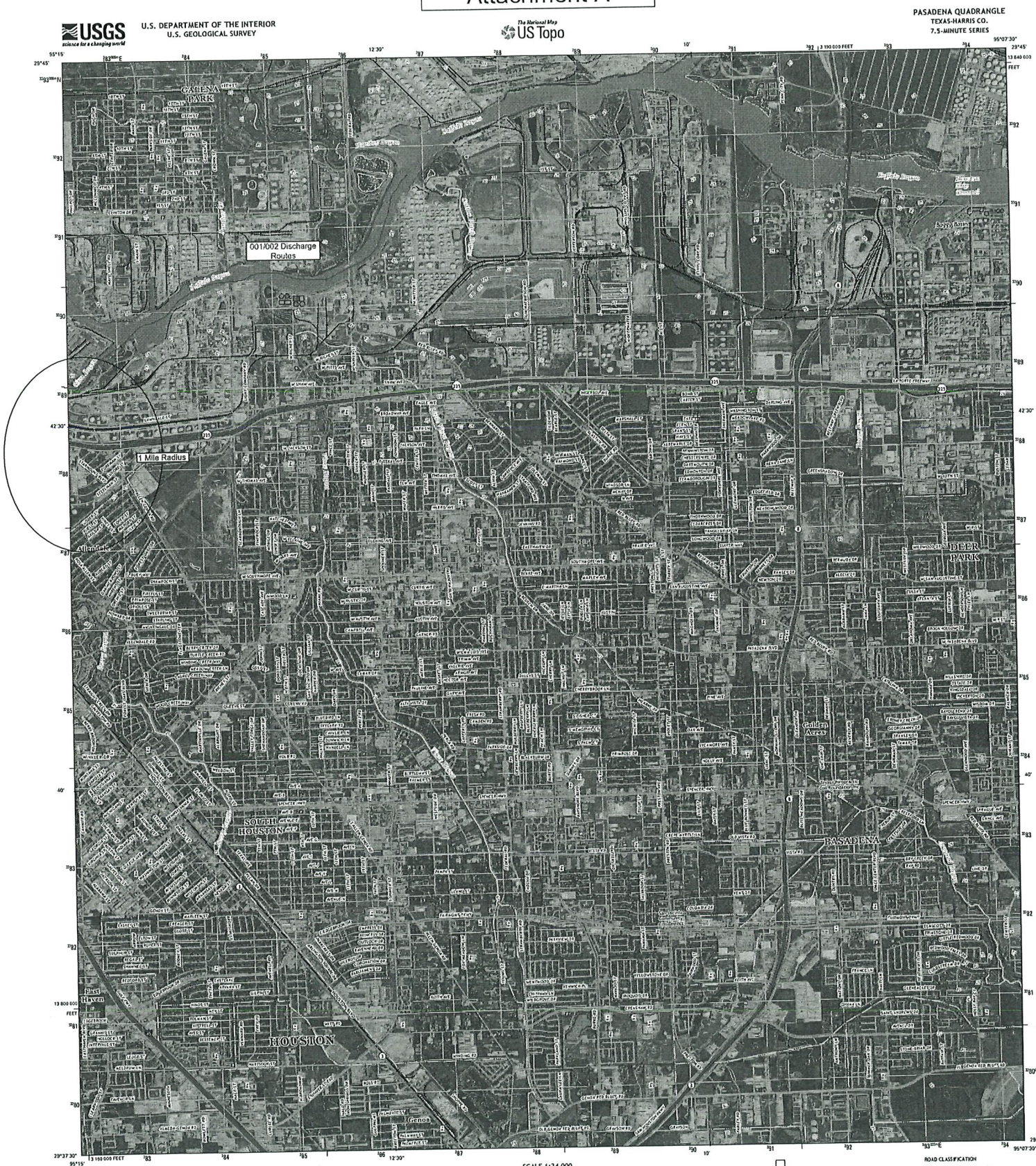
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery..... NAIP, October 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names..... GNIS, 2015
Hydrography..... National Hydrography Dataset, 2014
Contours..... National Elevation Dataset, 2010
Boundaries..... Multiple sources; see metadata file 1972 - 2015
Wetlands..... FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2014 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

Administrative Report
Attachment A



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

PASADENA QUADRANGLE
TEXAS-HARRIS CO.
7.5-MINUTE SERIES

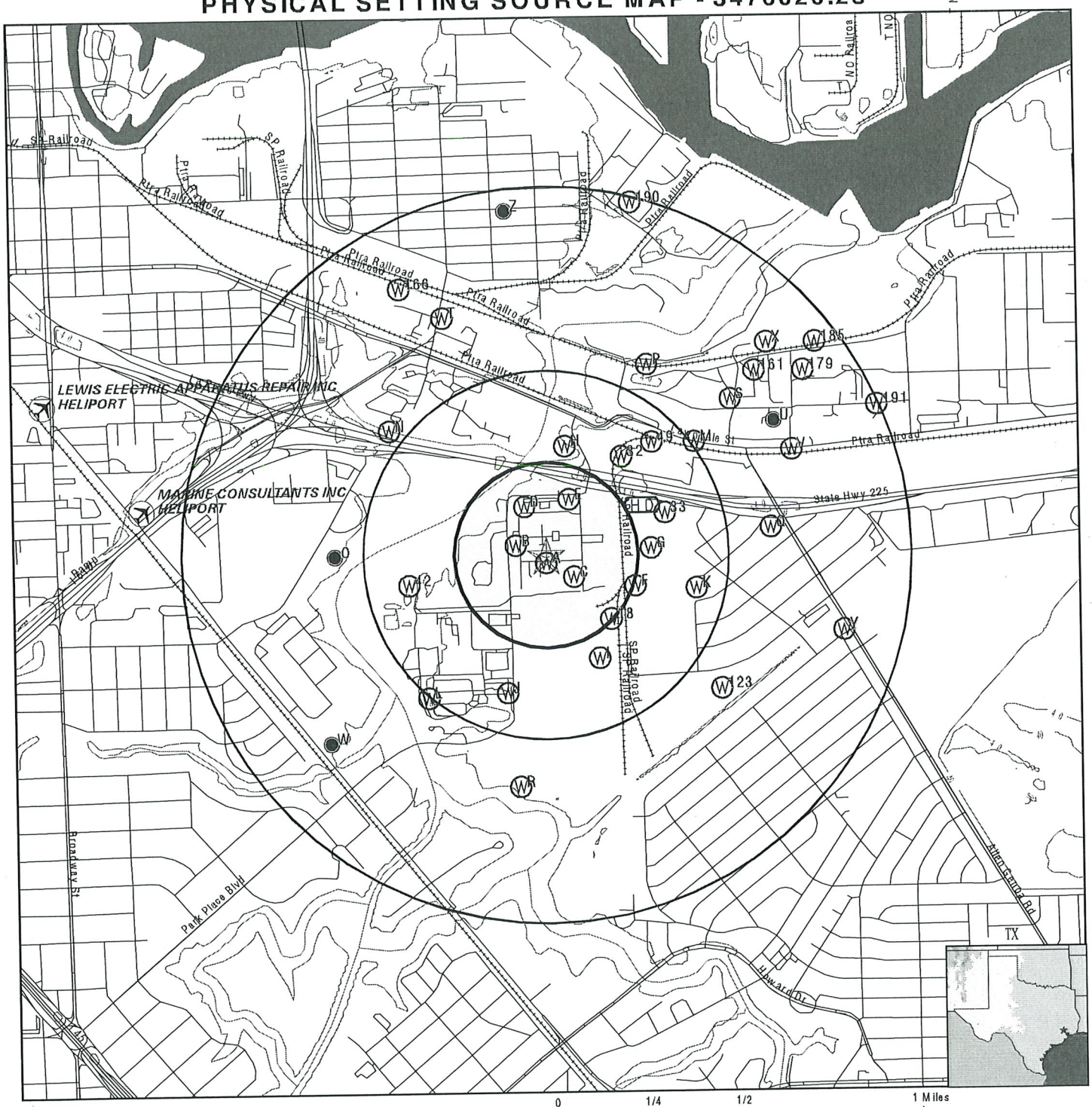
SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

ROAD CLASSIFICATION

PASADENA, TX
2016

PHYSICAL SETTING SOURCE MAP - 3476020.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil or gas wells

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
O119	USGS2651502	1/2 - 1 Mile West
U156	USGS2651528	1/2 - 1 Mile ENE
W164	USGS2651622	1/2 - 1 Mile SW
Z181	USGS2651419	1/2 - 1 Mile North
Z182	USGS2651417	1/2 - 1 Mile North
Z183	USGS2651418	1/2 - 1 Mile North
Z184	USGS2651416	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	TXWDB4000027084	0 - 1/8 Mile SSW
A2	TXGH30000001853	0 - 1/8 Mile SSE
B3	TXGH30000001872	0 - 1/8 Mile WNW
B4	TXWDB4000027099	0 - 1/8 Mile West
C5	TXMON2000055770	0 - 1/8 Mile SE
C6	TXMON2000055771	0 - 1/8 Mile SE
C7	TXMON2000055768	0 - 1/8 Mile SE
C8	TXMON2000055769	0 - 1/8 Mile SE
C9	TXMON2000055774	0 - 1/8 Mile SE
C10	TXMON2000055775	0 - 1/8 Mile SE
C11	TXMON2000055772	0 - 1/8 Mile SE
C12	TXMON2000055773	0 - 1/8 Mile SE
D13	TXGH30000001880	0 - 1/8 Mile NNW
E14	TXWDB4000027151	1/8 - 1/4 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D15	TXWDB4000027169	1/8 - 1/4 Mile NNW
E16	TXPLU2000016110	1/8 - 1/4 Mile NNE
E17	TXPLU2000016111	1/8 - 1/4 Mile NNE
18	TXGH30000001821	1/8 - 1/4 Mile SE
F19	TXGH30000001842	1/4 - 1/2 Mile ESE
F20	TXWDB4000027059	1/4 - 1/2 Mile ESE
F21	TXWDB4000027050	1/4 - 1/2 Mile ESE
G22	TXWDB4000027114	1/4 - 1/2 Mile East
G23	TXWDB4000027115	1/4 - 1/2 Mile East
H24	TXMON2000056180	1/4 - 1/2 Mile North
H25	TXMON2000056181	1/4 - 1/2 Mile NNE
I26	TXWDB4000026979	1/4 - 1/2 Mile SSE
I27	TXWDB4000026980	1/4 - 1/2 Mile SSE
I28	TXEQ30000004356	1/4 - 1/2 Mile SSE
H29	TXMON2000056195	1/4 - 1/2 Mile North
H30	TXMON2000056196	1/4 - 1/2 Mile North
G31	TXGH30000001854	1/4 - 1/2 Mile East
32	TXWDB4000027201	1/4 - 1/2 Mile NE
33	TXGH30000001881	1/4 - 1/2 Mile ENE
J34	TXMON2000055445	1/4 - 1/2 Mile SSW
J35	TXMON2000055444	1/4 - 1/2 Mile SSW
I36	TXGH30000001793	1/4 - 1/2 Mile SSE
J37	TXMON2000055419	1/4 - 1/2 Mile SSW
J38	TXMON2000055418	1/4 - 1/2 Mile SSW
J39	TXMON2000055420	1/4 - 1/2 Mile SSW
J40	TXMON2000055422	1/4 - 1/2 Mile SSW
J41	TXMON2000055421	1/4 - 1/2 Mile SSW
42	TXPLU2000015847	1/4 - 1/2 Mile WSW
J43	TXMON2000055417	1/4 - 1/2 Mile SSW
J44	TXMON2000055394	1/4 - 1/2 Mile SSW
J45	TXMON2000055393	1/4 - 1/2 Mile SSW
K46	TXGH30000001843	1/4 - 1/2 Mile ESE
J47	TXMON2000055392	1/4 - 1/2 Mile SSW
J48	TXMON2000055381	1/4 - 1/2 Mile SSW
49	TXWDB4000027213	1/4 - 1/2 Mile NE
J50	TXMON2000055380	1/4 - 1/2 Mile SSW
K51	TXEQ30000004397	1/4 - 1/2 Mile East
K52	TXWDB4000027024	1/4 - 1/2 Mile ESE
L53	TXPLU2000015695	1/2 - 1 Mile SW
L54	TXPLU2000015696	1/2 - 1 Mile SW
L55	TXPLU2000015697	1/2 - 1 Mile SW
L56	TXPLU2000015692	1/2 - 1 Mile SW
L57	TXPLU2000015693	1/2 - 1 Mile SW
L58	TXPLU2000015694	1/2 - 1 Mile SW
L59	TXPLU2000015701	1/2 - 1 Mile SW
L60	TXPLU2000015702	1/2 - 1 Mile SW
L61	TXPLU2000015703	1/2 - 1 Mile SW
L62	TXPLU2000015698	1/2 - 1 Mile SW
L63	TXPLU2000015699	1/2 - 1 Mile SW
L64	TXPLU2000015700	1/2 - 1 Mile SW
M65	TXPLU2000016197	1/2 - 1 Mile NE
M66	TXPLU2000016196	1/2 - 1 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
M67	TXPLU2000016195	1/2 - 1 Mile NE
M68	TXPLU2000016200	1/2 - 1 Mile NE
M69	TXPLU2000016199	1/2 - 1 Mile NE
M70	TXPLU2000016198	1/2 - 1 Mile NE
M71	TXPLU2000016194	1/2 - 1 Mile NE
M72	TXPLU2000016188	1/2 - 1 Mile NE
M73	TXPLU2000016189	1/2 - 1 Mile NE
M74	TXPLU2000016186	1/2 - 1 Mile NE
M75	TXPLU2000016187	1/2 - 1 Mile NE
M76	TXPLU2000016192	1/2 - 1 Mile NE
M77	TXPLU2000016193	1/2 - 1 Mile NE
M78	TXPLU2000016190	1/2 - 1 Mile NE
M79	TXPLU2000016191	1/2 - 1 Mile NE
M80	TXPLU2000016201	1/2 - 1 Mile NE
M81	TXPLU2000016212	1/2 - 1 Mile NE
M82	TXPLU2000016211	1/2 - 1 Mile NE
M83	TXPLU2000016210	1/2 - 1 Mile NE
M84	TXPLU2000016213	1/2 - 1 Mile NE
M85	TXPLU2000016216	1/2 - 1 Mile NE
M86	TXPLU2000016215	1/2 - 1 Mile NE
M87	TXPLU2000016214	1/2 - 1 Mile NE
M88	TXPLU2000016209	1/2 - 1 Mile NE
M89	TXPLU2000016204	1/2 - 1 Mile NE
M90	TXPLU2000016203	1/2 - 1 Mile NE
M91	TXPLU2000016202	1/2 - 1 Mile NE
M92	TXPLU2000016205	1/2 - 1 Mile NE
M93	TXPLU2000016208	1/2 - 1 Mile NE
M94	TXPLU2000016207	1/2 - 1 Mile NE
M95	TXPLU2000016206	1/2 - 1 Mile NE
M96	TXPLU2000016185	1/2 - 1 Mile NE
M97	TXPLU2000016173	1/2 - 1 Mile NE
M98	TXPLU2000016172	1/2 - 1 Mile NE
M99	TXPLU2000016175	1/2 - 1 Mile NE
M100	TXPLU2000016174	1/2 - 1 Mile NE
M101	TXPLU2000016169	1/2 - 1 Mile NE
M102	TXPLU2000016168	1/2 - 1 Mile NE
M103	TXPLU2000016171	1/2 - 1 Mile NE
M104	TXPLU2000016170	1/2 - 1 Mile NE
M105	TXPLU2000016176	1/2 - 1 Mile NE
M106	TXPLU2000016182	1/2 - 1 Mile NE
M107	TXPLU2000016181	1/2 - 1 Mile NE
M108	TXPLU2000016184	1/2 - 1 Mile NE
M109	TXPLU2000016183	1/2 - 1 Mile NE
M110	TXPLU2000016178	1/2 - 1 Mile NE
M111	TXPLU2000016177	1/2 - 1 Mile NE
M112	TXPLU2000016180	1/2 - 1 Mile NE
M113	TXPLU2000016179	1/2 - 1 Mile NE
N114	TXEQ30000004460	1/2 - 1 Mile NW
N115	TXWDB4000027227	1/2 - 1 Mile NW
O116	TXGH30000001863	1/2 - 1 Mile West
P117	TXMON2000056394	1/2 - 1 Mile NNE
O118	TXEQ30000004405	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
P120	TXMON2000056395	1/2 - 1 Mile NNE
O121	TXWDB4000027088	1/2 - 1 Mile West
P122	TXMON2000056396	1/2 - 1 Mile NNE
123	TXPLU2000015705	1/2 - 1 Mile SE
Q124	TXPLU2000015993	1/2 - 1 Mile East
Q125	TXPLU2000015992	1/2 - 1 Mile East
Q126	TXPLU2000016010	1/2 - 1 Mile East
Q127	TXPLU2000016009	1/2 - 1 Mile East
Q128	TXPLU2000016008	1/2 - 1 Mile East
Q129	TXPLU2000016012	1/2 - 1 Mile East
Q130	TXPLU2000016011	1/2 - 1 Mile East
R131	TXGH30000001766	1/2 - 1 Mile South
Q132	TXPLU2000015994	1/2 - 1 Mile East
Q133	TXPLU2000016013	1/2 - 1 Mile East
R134	TXWDB4000026834	1/2 - 1 Mile South
R135	TXEQ30000004297	1/2 - 1 Mile South
Q136	TXPLU2000016025	1/2 - 1 Mile East
S137	TXPLU2000016293	1/2 - 1 Mile NE
S138	TXPLU2000016294	1/2 - 1 Mile NE
T139	TXMON2000056498	1/2 - 1 Mile NNW
T140	TXMON2000056540	1/2 - 1 Mile NNW
T141	TXMON2000056541	1/2 - 1 Mile NNW
T142	TXMON2000056542	1/2 - 1 Mile NNW
T143	TXMON2000056539	1/2 - 1 Mile NNW
T144	TXMON2000056536	1/2 - 1 Mile NNW
T145	TXMON2000056537	1/2 - 1 Mile NNW
T146	TXMON2000056538	1/2 - 1 Mile NNW
T147	TXMON2000056543	1/2 - 1 Mile NNW
T148	TXMON2000056548	1/2 - 1 Mile NNW
T149	TXMON2000056549	1/2 - 1 Mile NNW
T150	TXMON2000056550	1/2 - 1 Mile NNW
T151	TXMON2000056547	1/2 - 1 Mile NNW
T152	TXMON2000056544	1/2 - 1 Mile NNW
T153	TXMON2000056545	1/2 - 1 Mile NNW
T154	TXMON2000056546	1/2 - 1 Mile NNW
U155	TXWDB4000027234	1/2 - 1 Mile ENE
V157	TXMON2000056169	1/2 - 1 Mile ENE
V158	TXPLU2000016153	1/2 - 1 Mile ENE
V159	TXPLU2000016154	1/2 - 1 Mile ENE
V160	TXPLU2000016155	1/2 - 1 Mile ENE
161	TXPLU2000016344	1/2 - 1 Mile NE
W162	TXEQ30000004324	1/2 - 1 Mile SW
W163	TXGH30000001780	1/2 - 1 Mile SW
W165	TXWDB4000026894	1/2 - 1 Mile SW
166	TXMON2000056595	1/2 - 1 Mile NNW
X167	TXMON2000056450	1/2 - 1 Mile NE
X168	TXMON2000056449	1/2 - 1 Mile NE
X169	TXPLU2000016378	1/2 - 1 Mile NE
X170	TXPLU2000016379	1/2 - 1 Mile NE
Y171	TXPLU2000015748	1/2 - 1 Mile ESE
Y172	TXPLU2000015749	1/2 - 1 Mile ESE
Y173	TXMON2000055572	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Y174	TXMON2000055573	1/2 - 1 Mile ESE
Y175	TXPLU2000015752	1/2 - 1 Mile ESE
Y176	TXPLU2000015753	1/2 - 1 Mile ESE
Y177	TXPLU2000015750	1/2 - 1 Mile ESE
Y178	TXPLU2000015751	1/2 - 1 Mile ESE
179	TXPLU2000016345	1/2 - 1 Mile NE
Y180	TXMON2000055579	1/2 - 1 Mile ESE
185	TXPLU2000016380	1/2 - 1 Mile NE
Z186	TXWDB4000027481	1/2 - 1 Mile North
Z187	TXWDB4000027480	1/2 - 1 Mile North
Z188	TXWDB4000027479	1/2 - 1 Mile North
Z189	TXWDB4000027478	1/2 - 1 Mile North
190	TXMON2000056873	1/2 - 1 Mile NNE
191	TXGH30000001908	1/2 - 1 Mile ENE

Attachment 1a

EPAY Voucher 699673

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	699673
Trace Number:	582EA000604864
Date:	04/03/2024 11:14 AM
Payment Method:	CC - Authorization 0000061432
Voucher Amount:	$2,000.00
Fee Type:	WW PERMIT - MAJOR INDUSTRIAL FACILITY - RENEWAL
ePay Actor:	RHEAM SAID

Payment Contact Information

Name:	MARK GRIEWISCH
Company:	GOODYEAR
Address:	2000 GOODYEAR DR, HOUSTON, TX 77017
Phone:	713-475-7660

Site Information

Site Name:	GOODYEAR
Site Location:	2000 GOODYEAR DR HOUSTON TX 77017

Customer Information

Customer Name:	GOODYEAR
Customer Address:	2000 GOODYEAR DR, HOUSTON, TX 77057

Other Information

Program Area ID:	WQ0000520000

Attachment 1b

EPAY Voucher 699674

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	699674
Trace Number:	582EA000604864
Date:	04/03/2024 11:14 AM
Payment Method:	CC - Authorization 0000061432
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	RHEAM SAID

Payment Contact Information

Name:	MARK GRIEWISCH
Company:	GOODYEAR
Address:	2000 GOODYEAR DR, HOUSTON, TX 77017
Phone:	713-475-7660

Attachment 2

Wastewater Processes 2024

Attachment 2
Technical Report - Question 1(b).
Description of Wastewater Generation Processes

Tank Farm Operations
Raw material storage operations include a Butadiene inhibitor scrubber system and styrene storage tank/decanting operations. Both of which generate process wastewater. Operations periodically discharges caustic wastewater from scrubbing operation to the wastewater treatment facility.

Reactor/Recovery Operations:
The manufacturing process blends 1,3-Butadiene and Styrene with various soap emulsions, electrolytes, and water in a reactor series to produce SBR Latex. The latex is processed through the monomer recovery area to recycle unreacted Butadiene and Styrene. Condensate and wastewater generated during recovery operations are stream stripped again and discharged to the wastewater pit/trench system.

Finishing Operations
The SBR crumb rubber finishing process consists of latex blending, coagulation, conversion, and drying. After blending SBR latex with various process oils and additives, concentrated sulfuric acid and brine solution are added to the SBR latex separating the SBR copolymer from solution as crumb rubber. The crumb rubber slurry is separated into solid and liquid streams and transferred to conversion tanks. Solids are routed to a re-slurry tank, screened for a second time, and then pass through an expeller and enter the dryer. Finishing process operations discharge wastewater from all parts to the wastewater pit/trench system.

Latex Concentration Operations
Stripped latex from the reactor/recovery process flows through a series of heaters and concentrators to increase the percent solids of latex (high solids latex). Process and loading operations generate process wastewater discharged to the wastewater pit/trench system.

Utility Operations
Blowdown and backflush operations associated with cooling towers, water softener units, process equipment/pumps, and water clarifier generate wastewater, as part of routine operations.

Cleaning and Maintenance
Routine plantwide cleaning and maintenance contribute to daily plantwide wastewater generation. See the list below for discussion on each operational unit:

- Tank Farm - tanks and vessels.
- Reactor/Recovery - tanks, vessels, reactors, stripping columns, and latex strainer baskets.
- Finishing - tanks, vessels, mechanical equipment, latex strainer baskets, and dryer units.
- Latex Concentration - tanks, vessels, concentrators, and strainer baskets.
- Plantwide miscellaneous equipment.

Attachment 3

Raw Materials and Products List 2024

Attachment 3

Raw Material and Product List
The Goodyear Tire & Rubber Company
Reference Technical Report 1(c)

Chemical Name	CAS Number		
1,2-Benzisothiazolin-3-one	2634	33	5
1,2-dibromo-2,4-dicyanobutane	35691	65	7
1,3-Butadiene	106	99	0
1,5-Pentanedial (Glutaraldeyde)	111	30	8
2,5-DI-(T-Amyl) Hydroquinone	79	74	3
2-bromo-2-nitropropane-1,3-diol	52	51	7
2-butoxyethanol	111	76	2
2-methyl-4-isothiazolin-3-one	2682	20	4
3,5-bis (1,1-Dimethylethyl)-4-hydroxybenzenepropanic Acid, Octadecyl Ester	2082	79	3
3,5-dimethyl-1,3,5,2H tetrahydrothiadiazine-2-thione	533	74	4
5-chloro-2-methyl-4-isothiazolin-3-one	26172	55	4
Acetone oxime	127	6	0
Acidulated soybean soapstock	8001	22	7
Acrylamid	79	6	1
Acrylic acid	79	10	7
Acrylic polymer	37350	42	8
Alcohols, C12-C14-secondary, ethoxylated	84133	50	6
Aliphatic petroleum distillates	64741	88	4
Alkyl (C14-C16) olefin sulfonate, sodium salt	68439	57	6
Alkylated and arylated phenols	68457	74	9
Alkylated aryl phosphite	25154	52	3
Alkylbenzene sulfonate	71010	88	3
Alkylbenzene sulfonic acid, potassium salt	27177	77	1
Alkylbenzene sulfonic acid, sodium salt	25155	30	0
Alkyltin mercaptide	Proprietary		
Ammonia	7664	41	7
Ammonium chloride	12125	2	9
Ammonium hydroxide	1336	21	6
Ammonium sodium sulfate	13863	45	1
Anionic flocculant (acrylate-acrylamide resins)	Proprietary		
Anionic alkyldiphenyloxide disulfonate surfactant	36445	71	3
Aromatic petroleum oil	64742	4	7
Biodegradable carboxylic acid	Proprietary		
Bis-cyclohexy sodium sulfosuccinate	23386	52	9
Blend of distilled tall oil	8152	92	1
Blend of petroleum derivative & proprietary additives	Proprietary		
Bromine	7726	95	6
Butylated hydroxyanisole	25013	16	5
Butylated hydroxytoluene	128	37	0
Calcium chloride	10043	52	4

Attachment 3

Raw Material and Product List
The Goodyear Tire & Rubber Company
Reference Technical Report 1(c)

Chemical Name	CAS Number		
Calcium hydroxide	1305	62	0
Calcium hypochlorite	7778	54	3
Cationic polymer (proprietary)	Proprietary		
Citric acid	77	92	9
Copolymer of acrylamide and sodium acrylate	Proprietary		
Cupric nitrate	9005	25	8
Cyclohexanol	108	93	0
Diisopropyl benzene hydroperoxide	26762	93	6
Diaryl-p-phenylene diamine	68478	45	5
Dicalcium phosphate anhydrous	7757	93	9
Diethyl hydroxyl amine	3710	84	7
Diethylbenzene	25340	17	4
Diethylene glycol	111	46	6
Diethylenetriamine	111	40	0
Diphenylamine	122	39	4
Diphosphoric acid	7758	16	9
Dipropylene glycol	25265	71	8
Disodium dihexadecyldiphenyloxide disulfide	70191	76	3
Disodium hexadecyldiphenyloxide disulfide	65143	89	7
Disodium phosphate	7558	79	4
Distilled tall oil, disproportionated	68152	92	1
Dodecylbenzene sulfonic acid	27176	87	0
Ethylene glycol	107	21	1
Ethyleneamine mixture	107	15	3
Fatty acid and rosin acids	8052	10	6
Fatty acids C14-18 and C18 unsaturated	67701	6	8
Ferrous sulfate	7720	78	7
Ferrous sulfate heptahydrate	10028	22	5
Formaldehyde	50	0	0
Formaldehyde, 4-nonylphenol, dodecane-1-thiol reaction products	-----		
Hydrogenated mixed fatty acids	61790	37	2
Hydrotreated heavy naphthenic distillate	64742	52	5
Hydrotreated light naphthenic distillate	64742	53	6
Isoparaffinic petroleum distillate	64742	47	8
Isopropyl alcohol	67	63	0
Isopropyl hydroxylamine	5080	22	8
Kerosene	8008	20	6
Limestone	1317	65	3

Attachment 3

Raw Material and Product List
The Goodyear Tire & Rubber Company
Reference Technical Report 1(c)

Chemical Name	CAS Number		
Linoleic acid	60	33	3
Linolenic acid	463	40	1
Magnesium chloride	7786	30	3
Magnesium nitrate	10377	60	3
Magnesium oxide	1309	48	4
Maleic anhydride, reaction products with sodium hypophosphite and ammonium persulfate, sodium salt	P90	15	29
Methylenebis (4-methyl-(1-methylcyclohexyl) phenol)	77	62	3
Mixed diaryl-p-phenylene-diamines	68953	84	4
Mixed tocopherols	1406	66	2
Naphthalene	91	20	3
Naphthalene sulfonic acid, sodium salt	9084	6	4
Naphthenic oil	64741	96	4
N-dodecylmercaptan	112	55	0
N-Isopropylhydroxylamine	5080	22	8
Nonylphenol	84852	15	3
Octadecyl 3,5-DI-tert-butyl hydroxyh	2082	79	3
Octoxynol-9	9010	43	9
Octylphenoxypolyethoxy-ethanol	9036	19	5
Oleic acid	112	80	1
Oxirane, 2,2' -[(1-methyethylidene) Bis (4,1-Phenyleneoxymethylene)] Bis-, polymer with a -hydro-w-hydroxy poly (oxy-1, 2- ethanediyl)	37225	26	6
Oxirane, methyl-, polymer	9003	11	6
Phenol, 4-methyl, reaction products w/dicyclopentadiene and isobutylene	68610	51	5
Phenol,4,4'- (1-methylethylidene) bis-, polymer with (chloromethyl) oxirane and alpha-hydro-omega-hydroxypoly) oxy -1, 2-ethanediyl	42617	82	3
Phophonic acid derivative	Proprietary		
Phosphonic acid derivative	Proprietary		
Pinane hydroperoxide	28324	52	9
p-methoxyphenol	150	76	5
Poly vinylchoride	9002	86	2
Polyamine polymer (proprietary)	Proprietary		
Polycarboxlated polymer	Proprietary		
Polydimethyldiallylammoniun chloride	25988	97	0
Polydimethylsiloxane emulsion	Proprietary		
Polyethylene glycol	25322	68	3
Polyethylne-polypropylene glycol monobutyl ether	9038	95	3
Polymer dispersant containing benzotriazole	95	14	7

Attachment 3

Raw Material and Product List
The Goodyear Tire & Rubber Company
Reference Technical Report 1(c)

Chemical Name	CAS Number		
Polyoxypropylene methyl diethyl ammonium chloride	68132	96	7
Potasium polyphosphate	68956	75	2
Potassium carbonate	584	8	7
Potassium chloride	7447	40	7
Potassium dodecylbenzenesulfonate	27177	77	1
Potassium hydroxide	1310	58	3
Potassium naphthalenesulfonate-formaldehyde	67828	14	2
Potassium persulfate	7727	21	1
Potassium soap of modified rosin	61790	50	9
Propylene glycol	57	55	6
Rosin	8050	9	7
Saturated carboxylic acids (C14-C20)	Proprietary		
SBR Crumb Rubber	Not Applicable		
SBR Latex	9003	55	8
Silica, hydrophobic	67762	90	7
Silica	7631	86	9
Silica, hydrated	10279	57	9
Sodium acrylate	25085	2	3
Sodium bisulfite	7631	90	5
Sodium bromide	7647	15	6
Sodium carbonate	497	19	8
Sodium chloride	7647	14	5
Sodium citrate	68	4	2
Sodium dichloro-s-triazinetrione	2893	78	9
Sodium dimethyldithiocarbamate	128	4	1
Sodium erythorbate	6381	77	7
Sodium ferric ethylenediaminetetraacetate	15708	41	5
Sodium formaldehyde sulfoxylate	149	44	0
Sodium Hydrosulfite	7775	14	6
Sodium hydroxide	1310	73	2
Sodium hypochlorite	7681	52	9
Sodium molybdate	7631	95	0
Sodium napthtalenesulfonate-formaldehyde copolymer dispersant	9084	6	1
Sodium nitrite	7632	0	0
Sodium Persulfate	7775	27	1
Sodium salt of sulfated oleic acid	68331	91	9
Sodium salts of polymerized alkylnaphtha lenesulfonic acids	9084	6	4

Attachment 3

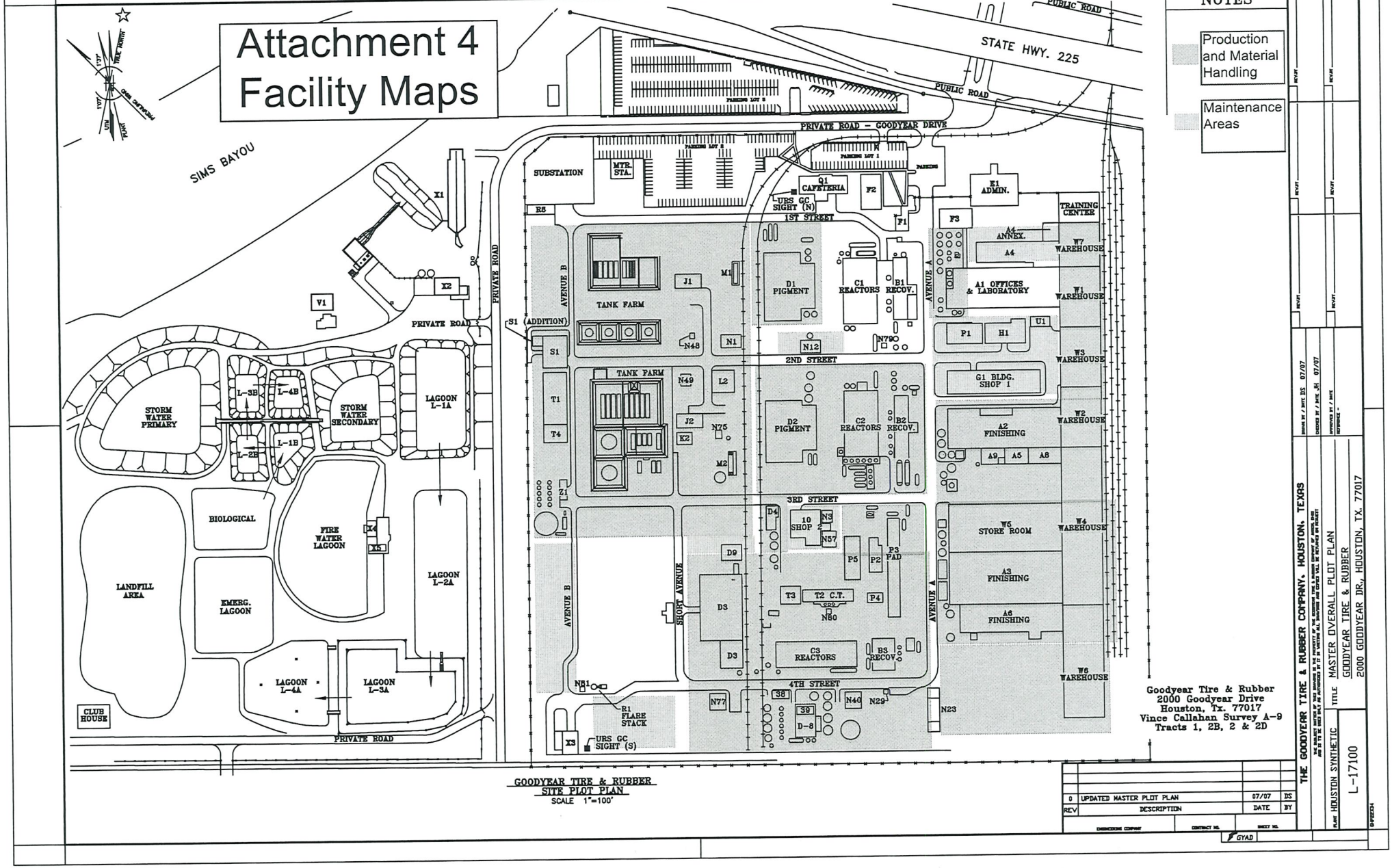
Raw Material and Product List
The Goodyear Tire & Rubber Company
Reference Technical Report 1(c)

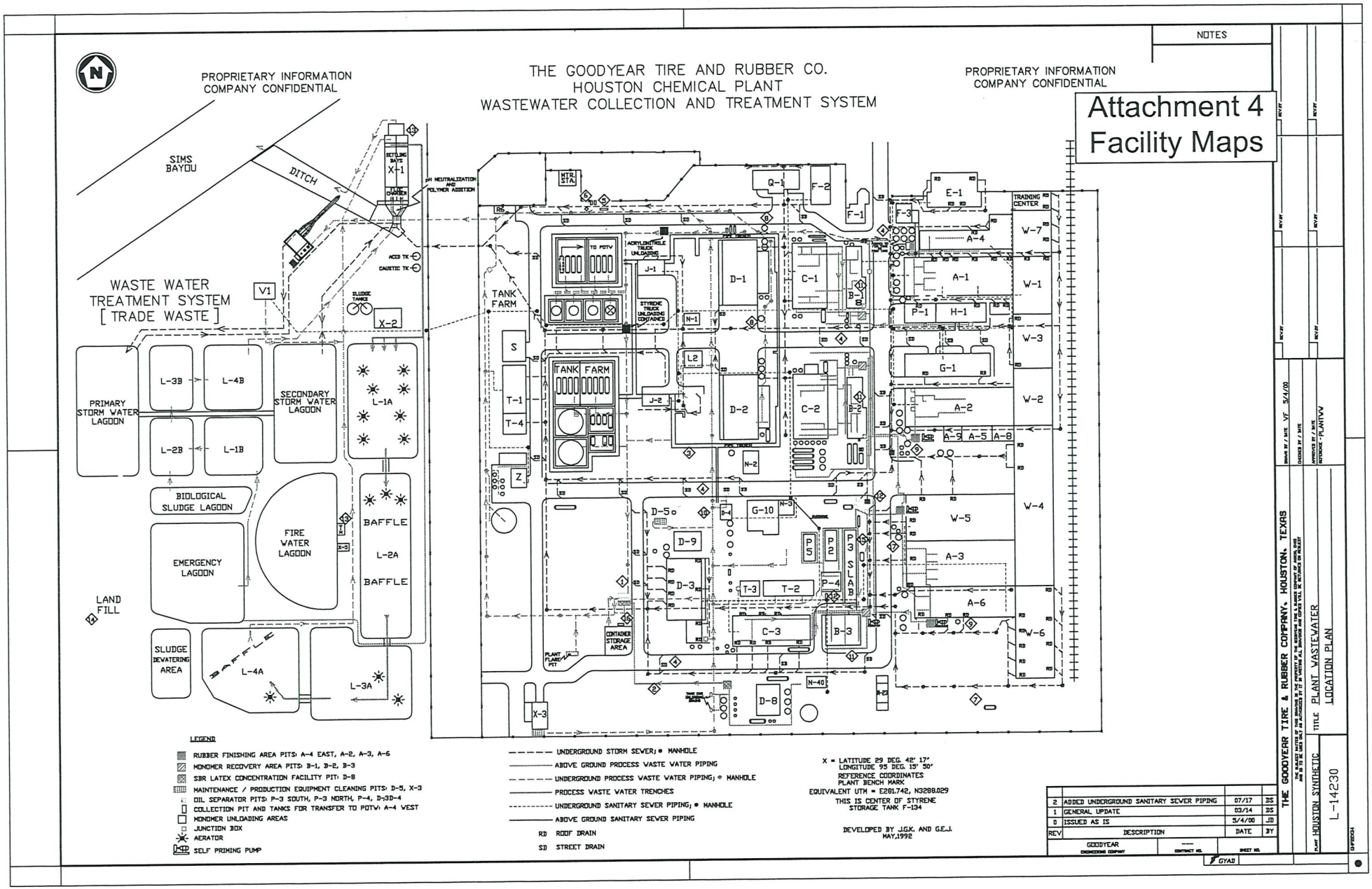
Chemical Name	CAS Number		
Sodium salts of sulfonated benzene, 1,1-0xybis, tetrapropylene derivatives	119345	4	9
Sodium silicate solution	1344	9	8
Sodium silicofluoride	16893	85	9
Sodium sulfate	7757	82	6
Sodium sulfate, anhydrous	7757	82	6
Sodium sulfide	1313	82	2
Sodium tetraborate pentahydrate	12179	4	3
Sodium tolyltriazole	64665	57	2
Sodium 1-hydroxyethlidenediphosphonate	29329	71	3
Soya fatty acid triglycerides	8001	22	7
Stearic acid	57	11	4
Straight run middle distillates	64741	44	2
Styrene	100	42	5
Styrenated diphenylamine	68442	68	2
Sulfamic acid	5329	14	6
Sulfur	7704	34	9
Sulfur dioxide	7446	9	5
Sulfuric acid	7664	93	9
Tertiary butyl catechol	98	29	3
Tertiary dodecyl mercaptan	25103	58	6
Tetrapotassium pyrophosphate	7320	34	5
Tetrasodium ethylenediaminetetraacetate solution	64	2	8
Triisopropanolamine	122	20	3
Tripotassium phosphate	7779	53	2
Trisnonylphenyl phosphite	26523	78	4
Trisodium nitrilotriacetate	5064	31	3
White mineral oil	8042	47	5

Attachment 4

Facility Maps

Attachment 4
Facility Maps





ATTENTION:
L-14230-1 (S:\AutoCad Data\APPROVED MASTER DRAWINGS) Emergency Response Manual Dwgs
SHALL BE UPDATED WITH LATEST REVISIONS ALONG WITH THIS DRAWING

Attachment 5

List of Treatment Units 2024

ATTACHMENT 5
TREATMENT SYSTEM
REFERENCE TECHNICAL REPORT QUESTION NO. 2 (A)

Primary Treatment

Inlet Chamber - Wastewater hard piped from plant process areas, trenches, and process pits to the inlet chamber. Preliminary mixing occurs and polymer solution is added to aid in flocculation. If necessary, pH corrections are made adding sulfuric acid or sodium hydroxide to neutralize influent wastewater.

Flash Mixer - Neutralized wastewater and polymer are thoroughly mixed.

Flocculator / Separator - Consists of two flocculating chambers and two settling basins in parallel equipped with a chain drive skimmer board system. Wastewater undergoes solids coagulation, flocculation, settling, solids and oil/organics removal. The skimmer system removes floating oils and organics where subsurface hoppers collect the sludge before it is pumped to the sludge retention basin. Process wastewater gravity flows over a weir to "pump suction" basin where wastewater is pumped to the "A" lagoon system for secondary treatment.

Secondary Treatment - Aerated Lagoons

Wastewater gravity flows through four aerated "A" lagoons. Typically, all four lagoons are in continuous service though operational adjustments may warrant operating with fewer lagoons.

"A" Lagoons				
	Length (ft.)	**Width (ft.)**	**Depth (ft.)**	**Associated Outfall**
Lagoon L-1A	295	200	12	001
Lagoon L-2A	400	110	10	001
Lagoon L-3A	~235	308	11	001
Lagoon L-4A	~205	200	10	001

Reaeration - After secondary treatment and gravity flow discharge from L-4A, treated effluent flows over a "stair step" concrete cascade for reaeration prior to discharge through Outfall 001.

Sludge Retaining Basin (16,740 sq. ft.) - A sludge retaining basin provides dewatering, surge volume, and preliminary treatment for sludge from primary treatment operations.

Stormwater System - Stormwater from process areas is collected at the stormwater basin before it is pumped to the primary stormwater lagoon *(45,880 sq. ft.)*. Stormwater collected in the stormwater lagoons gravity feeds ("refeeds) to the primary treatment inlet chamber and is subject to primary and secondary treatment before discharge via Outfall 001.

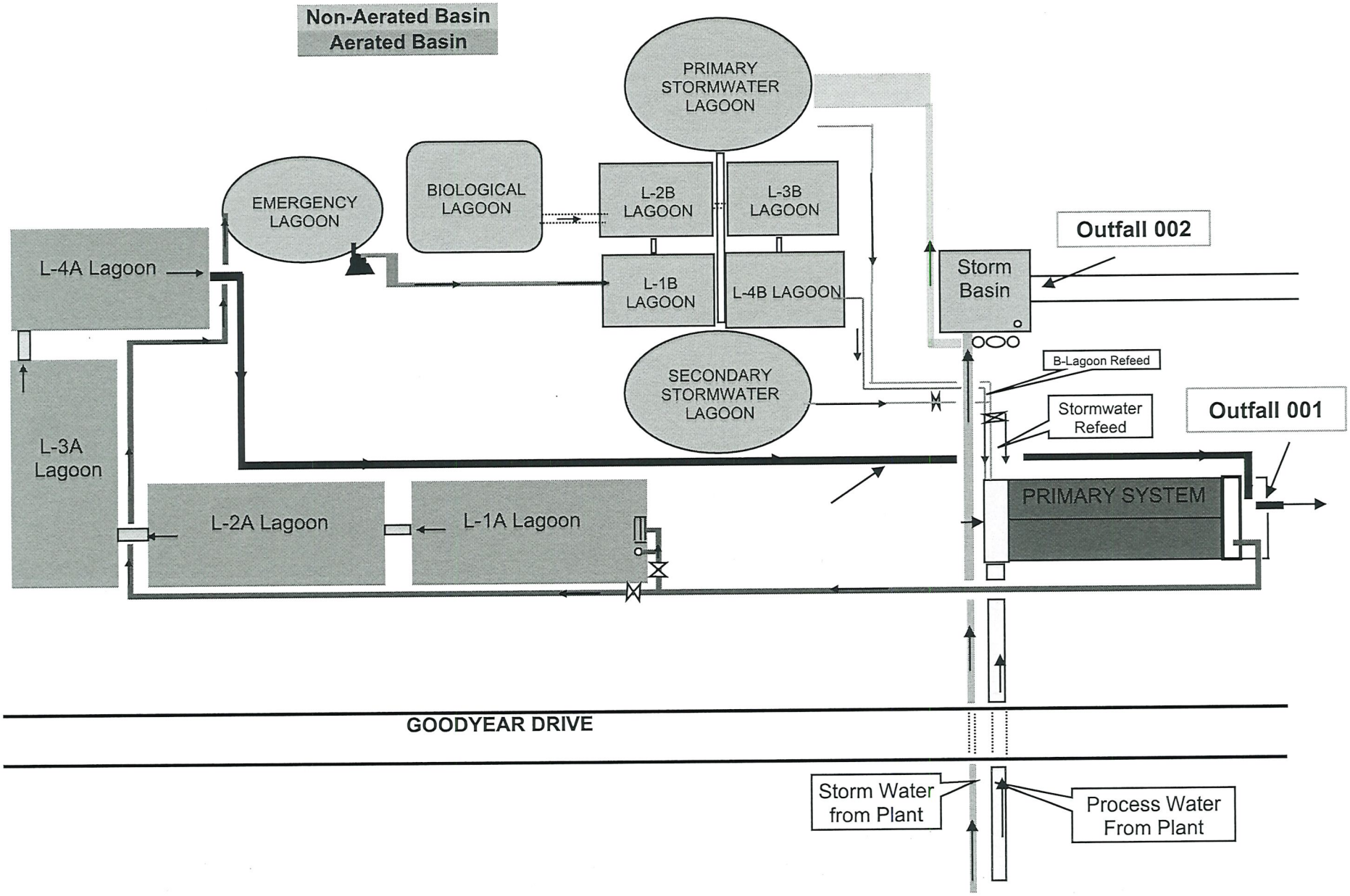
	Capacity (Gal)	**Associated Outfall**
Stormwater Basin	250,000	002
Primary Stormwater Lagoon	6,000,000	001
Secondary Stormwater Lagoon	4,800,000	001

Domestic Wastewater System - The domestic treatment system has been closed and demolished. A written Notice of Completion and Closure was submitted to the TCEQ on April 6, 2022. The Houston Plant discharges untreated domestic wastewater to a City of Houston Publicly Owned Treatment Works via a lift station located at the Houston plant property. Goodyear is requesting that monitoring and reporting requirements for Outfall 101 be removed from the permit.

Attachment 6a

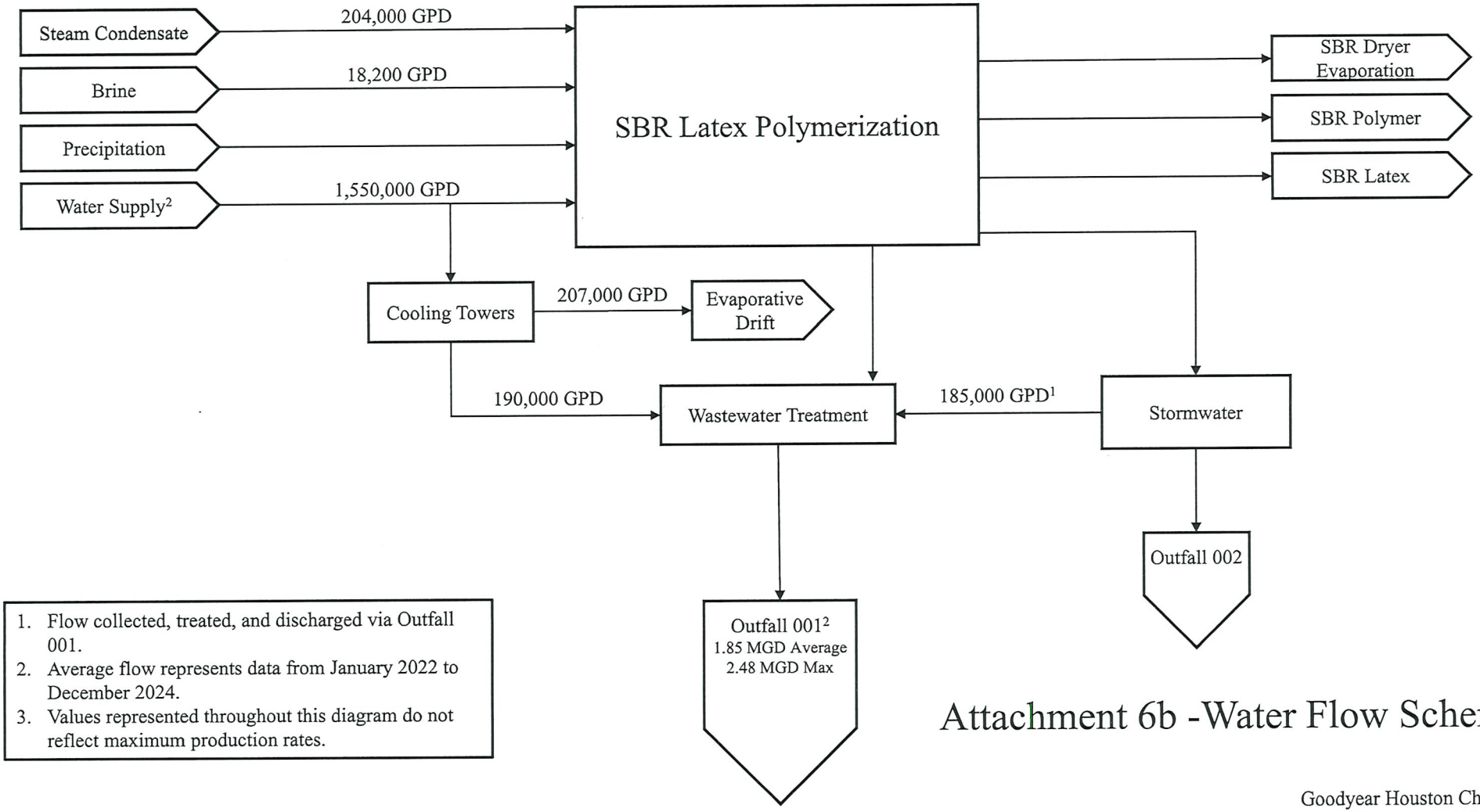
Flow Schematic 2024

Diagram of Aerated and Non-Aerated Process Waste Water Systems



Attachment 6b

Flow Schematic 2024



1. Flow collected, treated, and discharged via Outfall 001.
2. Average flow represents data from January 2022 to December 2024.
3. Values represented throughout this diagram do not reflect maximum production rates.

Attachment 6b -Water Flow Schematic

Goodyear Houston Chemical Plant
2024 TPDES Permit Renewal

Attachment 7

Impoundments 2024

Attachment 7

Impoundment Information - Technical Report 3(a)

	Use Designation: (T)(D)(C) or (E)	Outfall Discharge	Liner Type: (C)(I) or (S)	Alt. Liner Attach. Reference	Leak Detection System Y/N	Groundwater Monitoring Wells Y/N	Groundwater Monitoring Data Attachment	Pond Bottom Located above the Seasonal High water Table, Y/N	Length (ft.)	Width (ft.)	Depth from Water Surface (ft.)	Avg. Depth from Natural Ground Level (ft)	Max Depth from Natural Ground Level (ft)	Avg. Freeboard (ft)	Surface Area (Acres)	Capacity (Mil Gals)	Compliance with 40 CFR Ch. 257, Subpart D Required	Date of Construction (mm/dd/yyyy)
Lagoon L-1A	T	No	None	N/A	N	N	N/A	Y	295	155	18	5	18	2	---	3.3	No	10/5/1956
Lagoon L-2A	T	No	None	N/A	N	N	N/A	Y	400	110	10	3	18	2	---	1.7	No	10/5/1956
Lagoon L-3A	T	No	None	N/A	N	N	N/A	Y	---	---	10.3	4	21	2	64,946	3.8	No	10/5/1956
Lagoon L-4A	T	001	None	N/A	N	N	N/A	Y	---	---	10	3	21	2	40,455	3.1	No	10/5/1956
Emergency Lagoon	C	No	None	N/A	N	N	N/A	Y	---	---	19	12	18	4	36,115	5.2	No	10/5/1956
Biological Sludge Retaining Basin	T	No	None	N/A	N	N	N/A	Y	---	---	6	-1	18	2	16,740	0.7	No	10/5/1956
Lagoon L-1B	C	No	None	N/A	N	N	N/A	Y	---	---	5	-2	16	4	21,080	0.8	No	10/5/1956
Lagoon L-2B	C	No	None	N/A	N	N	N/A	Y	159	109	7	0	16	4	---	0.9	No	10/5/1956
Lagoon L-3B	C	No	None	N/A	N	N	N/A	Y	181	106	6	0	16	4	---	0.8	No	10/5/1956
Lagoon L-4B	C	No	None	N/A	N	N	N/A	Y	181	144	4	-3	16	4	---	0.8	No	10/5/1956
Primary Stormwater	C	No	None	N/A	N	N	N/A	Y	---	---	17	-2	14	2	45,880	6	No	10/5/1956
Secondary Stormwater	C	No	None	N/A	N	N	N/A	Y	250	150	17	4	16	2	37,500	4.8	No	10/5/1956

Attachment 8

Combined SDS Sheets 2024

VSDS # 241052

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:	ChemTreat CL5632
Product Use:	Cooling Water Treatment
Supplier's Name:	ChemTreat, Inc.
Emergency Telephone Number:	(800) 424–9300 (Toll Free) (703) 527–3887
Address (Corporate Headquarters):	5640 COX ROAD Glen Allen, VA 23060
Telephone Number for Information:	(800) 648–4579
Date of MSDS:	September 11, 2013

Section 2. Hazard(s) Identification

Signal Word: **WARNING!**

Hazard Statement(s):
Causes eye irritation.
May be harmful in contact with skin.
May be harmful if inhaled.
May be harmful if swallowed.

Precautionary Statement(s): Wash hands thoroughly after handling.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Citric acid	77–92–9	1 – 5
Benzotriazole, sodium salt	15217–42–2	1 – 5
2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic acid	26099–09–2	3 – 7

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 if you feel unwell.
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:	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:	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
Citric acid		N/E
Benzotriazole, sodium salt		N/E
2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic acid		N/E

Carcinogenicity Category

Component	Source	Code	Brief Description
Citric acid			N/E
Benzotriazole, sodium salt			N/E
2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic acid			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:	Liquid, Amber, Slightly Hazy
Specific Gravity:	1.110 @ 20°C
pH:	3.5 @ 20°C, 100.0%
Freezing Point:	41°F
Flash Point:	N/D
Odor:	Mild
Melting Point:	N/A
Boiling Point:	N/D
Solubility in Water:	Complete

Evaporation Rate:	N/D
Vapor Density:	N/D
Molecular Weight:	N/D
Viscosity:	<100 CPS @ 20°C
Flammable Limits:	N/A
Autoignition Temperature:	N/A
Density:	9.26 lb/ga
Vapor Pressure:	N/D
% VOC:	N/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Substances: Strong oxidizers, Strong bases

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
N/D				

Comments: None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	2967 mg/l
Fathead Minnow	96h	LC50	3536 mg/l
	7d	NOEC	3500 mg/l
	7d	LOEC	>3500 mg/l
	7d	IC25	>3500 mg/l

Comments: None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

DOT

Proper Shipping Name:	COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID
Technical Name:	N/A
Hazard Class:	Not D.O.T. Regulated
UN/NA#:	N/A
Packing Group:	N/A

TDG

Proper Shipping Name:	COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID
Technical Name:	N/A
Hazard Class:	Not D.O.T. Regulated
UN/NA#:	N/A
Packing 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

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Citric acid	N/A	N/A	N/A
Benzotriazole, sodium salt	N/A	N/A	N/A
2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic acid	N/A	N/A	N/A

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Citric acid	None
Benzotriazole, sodium salt	None
2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic acid	None

International Regulations

Canada

WHMIS Classification: D2B (Toxic 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: 1
Flammability: 0
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. 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; Nederland, TX.

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

PRODUCT BULLETIN

Cooling Water Treatment
Corrosion and Scale Inhibitor
FlexPro® CL5685

GENERAL DESCRIPTION

FlexPro® CL5685 is a proprietary product containing advanced mild steel corrosion inhibitors and highly effective halogen stable triazole compound developed to provide superior corrosion protection for copper, brass, bronze, copper-nickel, and other copper-based alloys. **CL5685** effectively inhibits system corrosion by a combination of anodic, cathodic, and filming inhibitors.

CL5685 can be used in cooling water applications with phosphate or phosphorous effluent discharge limitations. **CL5685** residual can be rapidly determined using a handheld sensor, saving operator time, improving accuracy, and eliminating the need for reagents. **CL5685** residual can be verified and precisely controlled using a reagent-less, solid-state sensor probe. ChemTreat's advanced control algorithms and PLC-based controller with communications package provide continuous assurance that the required product level is maintained in the cooling system at all times.

FEATURES

- Advanced combination of corrosion inhibitors for steel, stainless steel, aluminum, and galvanized steel
- Contains patented RPSI (Reactive Polyhydroxy Starch Inhibitor) to provide both anodic and cathodic corrosion inhibition
- Halogen Stable Triazole (HST) provides exceptional corrosion protection for copper and copper alloys under stressed conditions
- Combination of threshold inhibition and crystal modification for superior scale control to keep the surfaces clean from deposition/mineral scales

TYPICAL PHYSICAL PROPERTIES

Form:	Liquid
Color:	Amber to Brown
Clarity:	Clear
Odor:	Mild
pH*:	12.7–14.0 (100.0%)
Specific Gravity*:	1.238–1.266
Density (lb/gal)*:	10.48
Viscosity*:	0–200 CPS
Freeze Point:	-6°C / 21.2°F

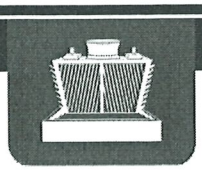
**Typical properties at 20°C unless otherwise noted.*

Refer to the **CL5685** SDS for specifics regarding safety and handling.

FEEDING, DOSAGE, AND CONTROL

CL5685 should be fed to the recirculating cooling water system in accordance with dosage and control parameters established by a ChemTreat representative for the specific application and water chemistry conditions. **CL5685** should be fed directly from the container without dilution into an area of high flow, such as the cooling tower pump suction screen pit or into a flowing line through a suitable chemical injection quill. In order to maintain product integrity, minimize holding time in the feed line and ensure dilution of the product to the recommended feed dosage occurs rapidly by not feeding into low flow or small diameter piping. **CL5685** and the halogen stable triazole can both be monitored and controlled using reagent-free, handheld or in-line sensors available from ChemTreat.

Please consult your ChemTreat representative for proper feeding equipment selection and compatibility. Dosage and Control parameters should be established by a ChemTreat representative for the specific application and water chemistry conditions.



ChemTreat

MATERIALS OF COMPATIBILITY

Compatibilities with materials of construction are available upon request from a ChemTreat representative.

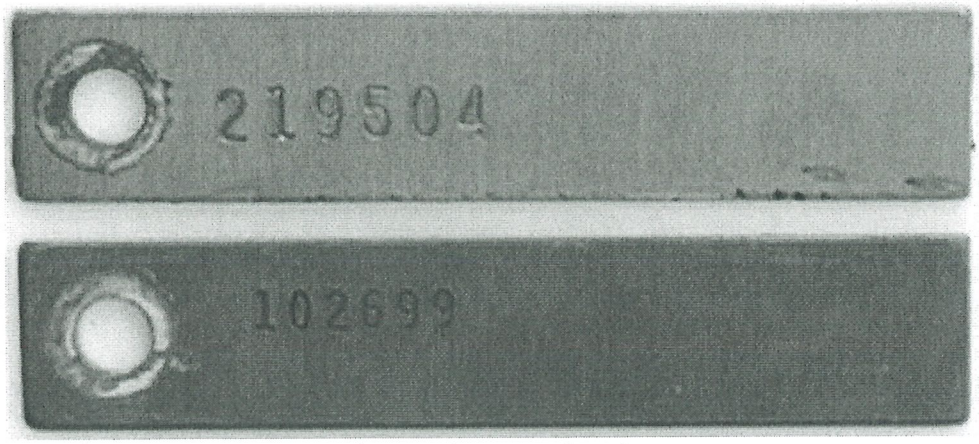
SHIPPING AND HANDLING

This product should be shipped and stored between 40°–100°F. Containers must remain closed and not exposed to humidity, direct sunlight, contact heaters, etc. If frozen and then thawed, it is considered fine to use.

PRODUCT CONVERSION

To ensure a successful product conversion, it is necessary that storage tanks be drained completely, rinsed, and redrained prior to filling with **CL5685**. Feed lines must be flushed with low hardness water between products.

Corrosion Test Strips after 90 days exposure on FlexPro® program in combination with halogen stable triazole technology
Gulf Coast Oil & Gas Application



Corrosion Rate: 0.2 mpy on low carbon steel and copper
Water: 1,000 mg/L chloride, 700 mg/L sulfate, pH 8.2

SAFETY DATA SHEET

1. Identification

Product identifier CL5685

Other means of identification

Product code Flexpro CL5685

Recommended use Cooling Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road
Glen Allen, VA 23060
United States

Telephone 800-648-4579

Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Sensitization, skin	Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 48.87% of the mixture consists of component(s) of unknown acute oral toxicity. 31.62% of the mixture consists of component(s) of unknown acute dermal toxicity. 54.47% of the mixture consists of component(s) of unknown acute inhalation toxicity. 31.62% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 28.72% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium hydroxide		1310-73-2	20 - < 30
Chlorotolyltriazole sodium salt		202420-04-0	1 - < 3
Other components below reportable levels			70 - < 80

4. First-aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance Clear

Physical state Liquid.

Form Liquid. Liquid

Color Brown

Odor Mild

Odor threshold Not available.

pH 13.2

Melting point/freezing point 21.20 °F (-6.00 °C)

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	0 - 200 cps
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Pounds per gallon	10.48
Specific gravity	1.24 - 1.27 @ 20C

10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Strong acids. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Information on toxicological effects	
Acute toxicity	Not known.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
CL5685			
Aquatic			
Crustacea	IC25	Opossum shrimp order (Mysida)	543 mg/l, 7 days
	LC50	Ceriodaphnia dubia	1193 mg/l, 48 hours
	LOEC	Opossum shrimp order (Mysida)	250 mg/l, 7 days
	NOEC	Opossum shrimp order (Mysida)	125 mg/l, 7 days
Fish	IC25	Inland silverside (Menidia beryllina)	1090 mg/l, 7 days
	LC50	Fathead minnow (Pimephales promelas)	583 mg/l, 96 hours
	LOEC	Inland silverside (Menidia beryllina)	2000 mg/l, 7 days
	NOEC	Inland silverside (Menidia beryllina)	1000 mg/l, 7 days

Components		Species	Test Results
Sodium hydroxide (CAS 1310-73-2)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Sodium hydroxide and Halogenated aromatic heterocycle sodium salt)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B2, IB2, T11, TP2, TP27
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242

IATA

UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Sodium hydroxide and Halogenated aromatic heterocycle sodium salt)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	II
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Sodium hydroxide and Halogenated aromatic heterocycle sodium salt)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

DOT

IATA; IMDG

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium hydroxide (CAS 1310-73-2)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA
Eldridge IA
Nederland TX
Fontana CA

Compliance Information: NSF Whitebook

This product conforms to the requirements of the NSF Nonfood Compounds Registration Program, Registration # 161286; Category G5.

16. Other information, including date of preparation or last revision

Issue date	02-01-2023
Revision date	02-28-2023
Version #	02
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0 Personal protection: X
Disclaimer	ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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.
Revision information	Transport Information: Material Transportation Information
Other information	Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Attachment 9

Stormwater Pollution Prevention 2024

ATTACHMENT 9
SPILL PREVENTION AND STORMWATER POLLUTION PREVENTION

The Houston Plant implements material handling and spill prevention protocols to reduce/prevent potential contamination of stormwater run-off in process areas. The following is a general summary of these protocols as associated with discharges from Outfalls 001 and 002.

Facility Description

The facility, operating 24/7/365, maintains perimeter fencing and on-site security personnel. Facility lighting is adequate for discovery and prevention of a discharge.

Facility Loading/Unloading Operations

The Houston plant has detailed unloading procedures for receiving truck and rail shipments of materials and products. The loading/unloading areas are equipped with a combination of trenches and/or catchment basins that would route spills to the wastewater treatment system. The wastewater systems have the capacity to contain the largest truck, tank, or rail car present on-site.

Wastewater Treatment System (Tradewaste)

Within Tradewaste, complete containment of a potential spill from the facility is possible. The system of lagoons and equipment. Collection of spills or discharge to the Tradewaste system will occur in any of the secondary treatment lagoons ("A" Lagoons). Stormwater from process areas drains to the stormwater basin where it is then routed to the stormwater lagoon system for refeeding into the primary/secondary treatment process.

Tank Farm

The Tank Farm (raw material storage) receives drainage support from a network or trenches that route run-off to an oil separator pit before discharge to the wastewater plant. In the event of a release, the oil separator pit can be isolated to control potential spills.

Reactor/Recovery

Drainage in the Reactor/Recovery process areas occurs via the network of trenches and wastewater pits routing to the wastewater plant.

Finishing Buildings

The Finishing Building operations (latex storage, coagulation, rubber drying, baling and packaging) discharge to wastewater pits.

Latex Concentration

D-8 is curbed on all sides routing process and stormwater run-off to a dedicated wastewater pit.

Secondary Containment and Drainage

The Houston Plant maintains secondary containment structures, but the wastewater system provides final containment in discharge prevention. Concrete pits, trenches, floors, curbs, and basins are considered sufficiently impervious to allow appropriate management of any oil losses to prevent a discharge.

Attachment 10

Toxicity Testing 2024

Attachment 10
Section 9 - Toxicity Testing

Per the current industrial wastewater permit (WQ0000520000), the Houston Plant conducts toxicity testing on the following schedule.

Test Type	Species	Frequency	Purpose
Chronic	Mysid Shrimp (Mysidopsis Bahia)	Semi-Annual	Determine if an appropriately dilute effluent sample adversely affects the survival or growth of the test organisms. A minimum of eight replicates with five organisms per replicate shall be used in the control and in each dilution.
Chronic	Inland Silverside (Menidia Beryllina)	Annual	Determine if an appropriately dilute effluent sample adversely affects the survival or growth of the test organisms. A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution.
Acute	Inland Silverside (Menidia Beryllina)	Semi-Annual	Determine compliance with the Surface Water Quality Standard, 307.6(e)(2)(B), of greater than 50 percent survival of the appropriate test organisms in 100 percent effluent for a 24-hour period.

As identified in the permit, the Houston Plant provides required reporting tables associated with toxicity testing by the required report date.

Attachment 11

Process Non-Process Flows 2024

Attachment 11
Breakdown of Process and Non-Process Flows

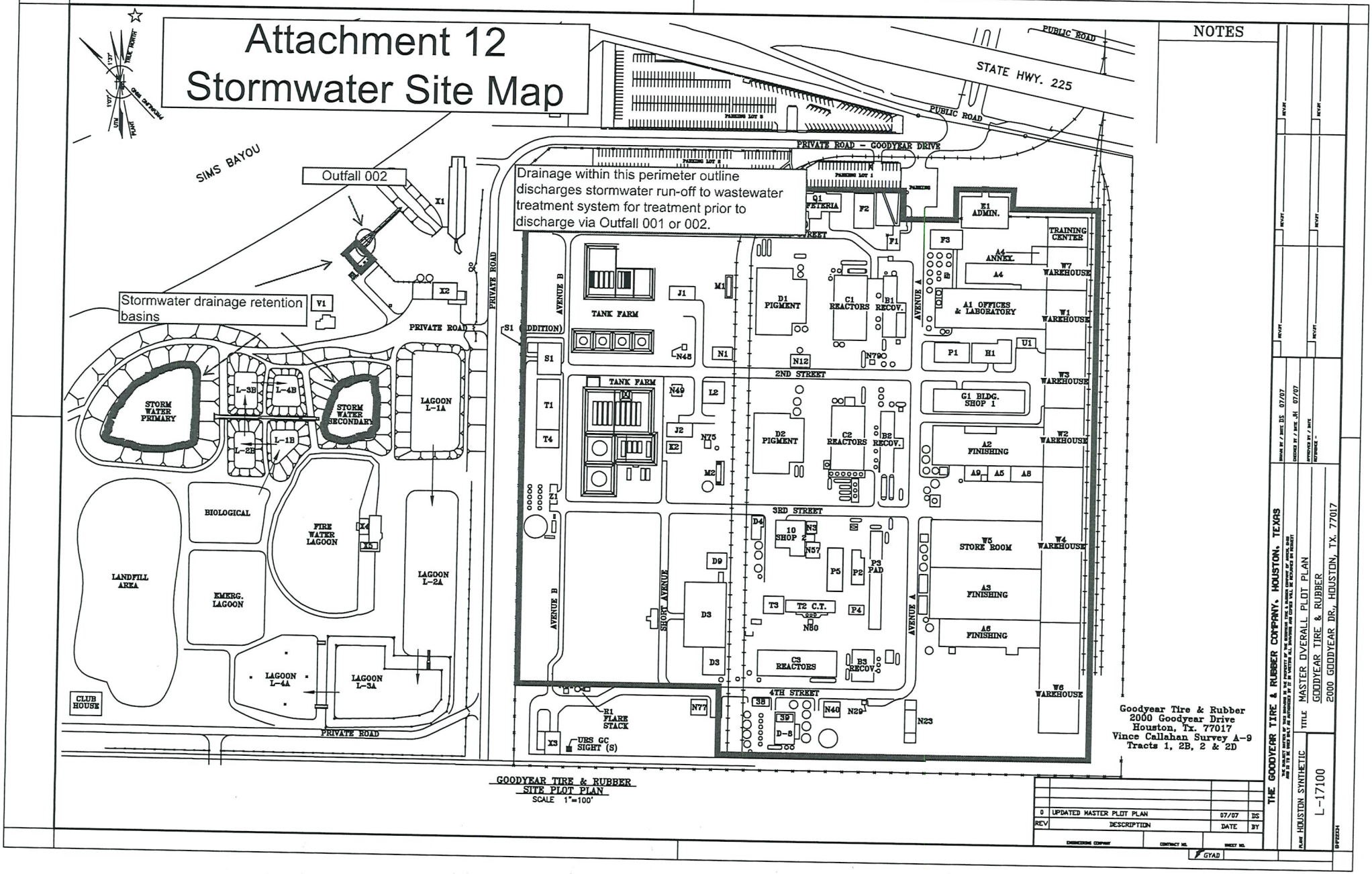
Process Flows		
Process	**Category**	**Wastewater Flow (gpd)**
SBR Production Latex Production	Part 428 Subpart B Part 428 Subpart D	1,400,000 300,000

Non-Process Flows	
Flow	**Wastewater Flow (gpd)**
Cooling Tower Blowdown Stormwater	207,000 185,000

Attachment 12

SW Site Map

Attachment 12
Stormwater Site Map



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 25, 2024

Mr. Thomas Baldauf
Site Manager
The Goodyear Tire & Rubber Company
~~11357 IH 10~~
~~Beaumont, Texas 77705~~

RE: Application to Renew Permit No.: WQ0000520000 (EPA I.D. No. TX0003689)
Applicant Name: The Goodyear Tire & Rubber Company (CN600616049)
Site Name: Goodyear Houston Chemical Plant (RN100870898)
Type of Application: Renewal with changes

VIA EMAIL

Dear Mr. Baldauf:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. Core Data Form (CDF), Section III, Items 27 & 28: This section was left blank please competed and return with response to this letter.

2. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

   APPLICATION. The Goodyear Tire & Rubber Company and P.O. Box 5397, ~~Houstn~~, Texas 77262, which own(s) an emulsion crumb rubber and latex manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000520000 (EPA I.D. No. TX0003689) to authorize process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater, ~~previously treated domestic sewage~~, and stormwater at a volume not to exceed a daily average flow of 2,900,000 gallons per day via Outfall 001; and the discharge of stormwater at an intermittent and flow variable rate via Outfall 002. The facility is located at 2000 Goodyear Drive, in the city of Houston, in Harris County, Texas 77017. The discharge route is from the plant site to Sims Bayou Tidal, part of the Houston Ship Channel/Buffalo Bayou Tidal. TCEQ received this application on April 19, 2024. The permit application will be available for viewing and copying at TCEQ Region 12, 3rd floor, 5425 Polk Avenue, Suite H, Houston, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

3. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by May 9, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4658 or by email at rachel.ellis@tceq.texas.gov

Sincerely,

Rachel Ellis

Rachel Ellis
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

re

Enclosure(s)

Attachment 1: Industrial Discharge Renewal Spanish NORI

cc: Mr. Charlie Mingo, Environmental Team Lead, The Goodyear Tire & Rubber Company, 11357 IH-10, Beaumont, Texas 77705

TPDES PERMIT NO.
WQ0000520000
[For TCEQ office use only -
EPA I.D. No. TX0003689]

This renewal replaces TPDES Permit No. WQ0000520000, issued on October 16, 2019.

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

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code
and 40 CFR Part 428, Subparts B and D

G-3 Chickadee Purchaser, LLC

whose mailing address is

2000 Goodyear Drive
Houston, Texas 77017

is authorized to treat and discharge wastes from Goodyear Houston Chemical Plant, an emulsion Styrene Butadiene (SBR) crumb rubber and concentrated latex products manufacturing facility (SIC 2822)

located at 2000 Goodyear Drive, in the City of Houston, in Harris County, Texas 77017

to Sims Bayou Tidal, which is a portion of the Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin

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

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

ISSUED DATE:

For the Commission

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge treated process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater, and stormwater [1] subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 2.9 million gallons per day (MGD). The daily maximum flow shall not exceed 4.5 MGD.

Effluent Characteristics	Discharge Limitations					Minimum Self-Monitoring Requirements	
	Daily Average		Daily Maximum		Single Grab	Report Daily Average and Daily Maximum	
	lbs./day	mg/L	lbs./day	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	2.9 MGD		4.5 MGD		N/A	Continuous	Record
Temperature	Report, ˚F		Report, ˚F		N/A	6/day	In-situ
Total Suspended Solids [2]	724	N/A	1,269	N/A	105	1/day	Composite
Total Suspended Solids [3]	849	N/A	1,457	N/A	120	1/day	Composite
Total Suspended Solids [4]	999	N/A	1,683	N/A	139	1/day	Composite
Ammonia (as N)	383	N/A	766	N/A	86	3/week	Composite
Carbonaceous Biochemical Oxygen Demand,5-day ($CBOD_5$) [2]	324	N/A	507	N/A	20	3/week	Composite
$CBOD_5$ [3]	398	N/A	603	N/A	20	3/week	Composite
$CBOD_5$ [4]	475	N/A	719	N/A	20	3/week	Composite
Chemical Oxygen Demand [2]	2,429	N/A	3,643	N/A	301	3/week	Composite
Chemical Oxygen Demand [3]	2,830	N/A	4,244	N/A	351	3/week	Composite
Chemical Oxygen Demand [4]	3,311	N/A	5,446	N/A	450	3/week	Composite
Oil and Grease [2]	184	N/A	276	N/A	24.5	3/week	Composite
Oil and Grease [3]	235	N/A	344	N/A	28.4	3/week	Composite
Oil and Grease [4]	272	N/A	399	N/A	33.0	3/week	Composite
Chromium, Total	N/A	N/A	N/A	0.2	0.2	1/month	Composite
Copper, Total	0.91	N/A	1.92	N/A	0.2	1/month	Composite
Cyanide, Free [5]	0.24	N/A	0.51	N/A	0.05	1/month	Composite
Phenols	N/A	N/A	N/A	0.3	0.3	1/month	Composite
Zinc, Total	8.03	N/A	16.99	N/A	1.8	1/month	Composite

[1] See Other Requirements No. 6.
[2] Effluent Limitation Tier 1: This effluent limitation is effective beginning upon the date of permit issuance.
[3] Effluent Limitation Tier 2: This effluent limitation becomes effective when the monthly average production is expected to equal or exceed 1,182,000 lbs./day but is expected to be less than 1,418,000 lbs./day. See Other Requirement No. 10.
[4] Effluent Limitation Tier 3: This effluent limitation becomes effective when the monthly average production is expected to equal or exceed 1,418,000 lbs./day. See Other Requirement No. 10.
[5] See Other Requirement No. 9.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored continuously and recorded. See Other Requirements No. 3.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 001, following combination of all wastestreams listed above and prior to discharging to the on-site drainage ditch.

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

   Volume: Intermittent and flow variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	Report, MGD [2]	Report, MGD [2]	N/A	1/day [2]	Instantaneous
Total Organic Carbon	N/A	75	75	1/day [2]	Grab
Oil and Grease	N/A	15	15	1/day [2]	Grab
Zinc, Total	N/A	Report	N/A	1/day [2]	Grab

   [1] See Other Requirement No. 6.

   [2] Discharges shall be monitored by grab sample and collected within 30 minutes after discharge begins, 1/day for the duration of the flow. For short duration discharges (less than one hour), only one flow determination is required for reporting daily average flow on days of discharge. This supersedes requirements under "Definitions and Standard Permit Conditions," Item 3.b. on Page 4 of this permit.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day [2] by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 002, at the point where stormwater is diverted to the storm drainage ditch approximately 300 feet from Sims Bayou on company property.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

   a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.

   b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

   c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

   d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

   e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

   f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

   a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

      i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

      ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

   b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

   c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

   d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the “daily discharge” is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day.

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

e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD × Concentration, mg/L × 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

   a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).

   b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

   Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

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

2. Test Procedures

   a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

   b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

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

   b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

   c. Records of monitoring activities shall include the following:

      i. date, time, and place of sample or measurement;
      ii. identity of individual who collected the sample or made the measurement;
      iii. date and time of analysis;
      iv. identity of the individual and laboratory who performed the analysis;
      v. the technique or method of analysis; and
      vi. the results of the analysis or measurement and quality assurance/quality control records.

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

   Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
      i. unauthorized discharges as defined in Permit Condition 2(g).
      ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
      iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

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

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

b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. five hundred micrograms per liter (500 μg/L);
ii. one milligram per liter (1 mg/L) for antimony;
iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. the level established by the TCEQ.

10. Signatories to Reports

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

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

a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;

b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

c. for the purpose of this paragraph, adequate notice shall include information on:

i. the quality and quantity of effluent introduced into the POTW; and
ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. violation of any terms or conditions of this permit;
ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.

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

4. Permit Amendment or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or

      ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

      iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

   e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

   f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy.

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;
       ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
       iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.

    b. This notification must indicate:

       i. the name of the permittee;
       ii. the permit number(s);
       iii. the bankruptcy court in which the petition for bankruptcy was filed; and
       iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).

7. Documentation

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

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

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

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

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

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:

a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.

e. The term “industrial solid waste management unit” means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

i. volume of waste and date(s) generated from treatment process;
ii. volume of waste disposed of on-site or shipped off-site;
iii. date(s) of disposal;

iv. identity of hauler or transporter;
v. location of disposal site; and
vi. method of final disposal.

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

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

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OTHER REQUIREMENTS

1. The executive director reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.

2. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 12 and Compliance Monitoring Team (MC 224):

Pollutant	MAL[1] (mg/L)
Chromium (Total)	0.003
Copper (Total)	0.002
Cyanide (Available)	0.010
Zinc (Total)	0.005

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

> "The reported value(s) of zero for [list pollutant(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

3. The permittee shall maintain the pH within the range specified on Page 2a of this permit for Outfall 001. Excursions from the range are permitted. An excursion is an unintentional and temporary incident in which the pH value of the wastewater exceeds the range set forth on Page 2a. A pH excursion is not a violation and a non-compliance report is not required for pH excursions provided:

   A. the excursion does not exceed the range of 5-11 standard pH units;

[1] Minimum analytical level.

B. the individual excursion does not exceed 60 minutes; and

C. the sum of all excursions does not exceed 7 hours and 26 minutes in any calendar month.

4. This permit does not authorize the discharge of domestic wastewater. All domestic wastewater must be disposed of in an approved manner, such as routing to an approved on-site septic tank and drainfield system or to an authorized third party for treatment and disposal.

5. The permittee shall continue to obtain groundwater samples from the one upgradient and three down gradient monitoring wells associated with the landfill site every six months. The groundwater samples shall be analyzed for Total Dissolved Solids, Chlorides, Sulfates, and Total Organic Carbon. The groundwater analytical results shall be reported to the TCEQ Region 12 Office within 30 days of completing the analysis of the groundwater samples.

6. STORMWATER DISCHARGES

The permittee is authorized to discharge treated stormwater (process area, non-process area, and landfill area) via Outfall 001. Untreated stormwater from process, non-process, and landfill areas may be discharged directly to Outfalls 001 and 002 under the following conditions:

A. The stormwater retention lagoon system has been designed and is operated such that when empty the system can contain the maximum volume of stormwater generated from the process, non-process, and landfill areas from a 10-year, 24-hour rainfall event. The term "10-year, 24-hour rainfall event" shall mean a rainfall event with a probability recurrence interval of once in ten years as defined by the National Weather Service in Technical Paper No. 40, "Rainfall Frequency Atlas of the United States," May 1961, and subsequent amendments or equivalent regional or state rainfall probability information developed therefrom.

B. Untreated stormwater from process and non-process areas may be discharged from the stormwater pumping basin directly to Outfall 002 when the volume of flow to the basin exceeds the capacity of the pump system.

C. Untreated stormwater from process, non-process, and landfill areas contained within the primary or secondary stormwater lagoons may be discharged directly to Outfall 001 or 002, or both, when it is necessary to maintain adequate freeboard within the primary stormwater lagoon, secondary stormwater lagoon, or emergency lagoons (Lagoons L-1B, L-2B, L-3B, and L-4B).

D. Untreated stormwater from process, non-process, and landfill areas contained within the primary or secondary stormwater lagoons may be discharged directly to Outfalls 001 or 002, or both, when it is necessary to create additional storage capacity in anticipation of receiving additional stormwater from imminent rainfall events.

Additionally, the permittee shall install a permanent rain gage at the plant site and keep daily records of rainfall. Rainfall data shall be maintained on site and made available for inspection by authorized representatives of the TCEQ for at least five years.

7. POND REQUIREMENTS

A wastewater pond must comply with the following requirements. A wastewater pond (or lagoon) is an earthen structure used to evaporate, hold, store, or treat water that contains a waste or pollutant or that would cause pollution upon discharge as those terms are defined in Texas Water Code § 26.001, but does not include a pond that contains only stormwater.

A. A wastewater pond subject to 40 CFR Part 257, Subpart D (related to coal combustion residuals) must comply with those requirements in lieu of the requirements in B through G of POND REQUIREMENTS.

B. An existing wastewater pond must be maintained to meet or exceed the original approved design and liner requirements; or, in the absence of original approved requirements, must be maintained to prevent unauthorized discharges of wastewater into or adjacent to water in the state. The permittee shall maintain copies of all liner construction and testing documents at the facility or in a reasonably accessible location and make the information available to the executive director upon request.

C. A new wastewater pond constructed after the issuance date of this permit must be lined in compliance with one of the following requirements if it will contain process wastewater as defined in 40 CFR § 122.2. The executive director will review ponds that will contain only non-process wastewater on a case-by-case basis to determine whether the pond must be lined. If a pond will contain only non-process wastewater, the owner shall notify the Industrial Permits Team (MC 148) to obtain a written determination at least 90 days before the pond is placed into service and copy the TCEQ Compliance Monitoring Team (MC 224) and regional office. The permittee must submit all information about the proposed pond contents that is reasonably necessary for the executive director to make a determination. If the executive director determines that a pond does not need to be lined, then the pond is exempt from C(1) through C(3) and D through G of POND REQUIREMENTS.

   A wastewater pond that only contains domestic wastewater must comply with the design requirements in 30 TAC Chapter 217 and 30 TAC § 309.13(d) in lieu of items C(1) through C(3) of this subparagraph.

   (1) Soil liner: The soil liner must contain clay-rich soil material (at least 30% of the liner material passing through a #200 mesh sieve, liquid limit greater than or equal to 30, and plasticity index greater than or equal to 15) that completely covers the sides and bottom of the pond. The liner must be at least 3.0 feet thick. The liner material must be compacted in lifts of no more than 8 inches to 95% standard proctor density at the optimum moisture content in accordance with ASTM D698 to achieve a permeability less than or equal to $1 \times 10\text{-}7$ (≤ 0.0000001) cm/sec. For in-situ soil material that meets the permeability requirement, the material must be scarified at least 8 inches deep and then re-compacted to finished grade.

   (2) Synthetic membrane: The liner must be a synthetic membrane liner at least 40 mils in thickness that completely covers the sides and the bottom of the pond. The liner material used must be compatible with the wastewater and be resistant to degradation (e.g., from ultraviolet light, chemical reactions, wave action, erosion, etc.). The liner material must be installed and maintained in accordance with the manufacturer's guidelines. A wastewater pond with a synthetic membrane liner must include an underdrain with a leak detection and collection system.

   (3) Alternate liner: The permittee shall submit plans signed and sealed by a Texas-licensed professional engineer for any other equivalently protective pond lining method to the TCEQ Industrial Permits Team (MC 148) and copy the regional office.

D. For a pond that must be lined according to subparagraph C (including ponds with in-situ soil liners), the permittee shall provide certification, signed and sealed by a Texas-licensed professional engineer, stating that the completed pond lining and any required underdrain with leak detection and collection system for the pond meet the requirements in

subparagraph C(1) – C(3) before using the pond. The certification shall include the following minimum details about the pond lining system: (1) pond liner type (in-situ soil, amended in-situ soil, imported soil, synthetic membrane, or alternative), (2) materials used, (3) thickness of materials, and (4) either permeability test results or a leak detection and collection system description, as applicable.

The certification must be provided to the TCEQ Water Quality Assessment Team (MC 150), Industrial Permits Team (MC 148), and regional office. A copy of the liner certification and construction details (i.e., as-built drawings, construction QA/QC documentation, and post construction testing) must be kept on-site or in a reasonably accessible location (in either hardcopy or digital format) until the pond is closed.

E. Protection and maintenance requirements for a pond subject to subparagraph B or C (including ponds with in-situ soil liners).

(1) The permittee shall maintain a liner to prevent the unauthorized discharge of wastewater into or adjacent to water in the state.

(2) A liner must be protected from damage caused by animals. Fences or other protective devices or measures may be used to satisfy this requirement.

(3) The permittee shall maintain the structural integrity of the liner and shall keep the liner and embankment free of woody vegetation, animal burrows, and excessive erosion.

(4) The permittee shall inspect each pond liner and each leak detection system at least once per month. Evidence of damage or unauthorized discharge must be evaluated by a Texas-licensed professional engineer or Texas-licensed professional geoscientist within 30 days. The permittee is not required to drain an operating pond or to inspect below the waterline during these routine inspections.

a. A Texas-licensed professional engineer or Texas-licensed professional geoscientist must evaluate damage to a pond liner, including evidence of an unauthorized discharge without visible damage.

b. Pond liner damage must be repaired at the recommendation of a Texas-licensed professional engineer or Texas-licensed professional geoscientist. If the damage is significant or could result in an unauthorized discharge, then the repair must be documented and certified by a Texas-licensed professional engineer. Within 60 days after a repair is completed, the liner certification must be provided to the TCEQ Water Quality Assessments Team (MC 150) and regional office. A copy of the liner certification must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.

c. A release determination and subsequent corrective action will be based on 40 CFR Part 257 or the Texas Risk Reduction Program (30 TAC Chapter 350), as applicable. If evidence indicates that an unauthorized discharge occurred, including evidence that the actual permeability exceeds the design permeability, the matter may also be referred to the TCEQ Enforcement Division to ensure the protection of the public and the environment.

F. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall have a Texas-licensed professional engineer perform an evaluation of each pond that requires a liner at least once every five years. The evaluation must include: (1) a physical inspection of the pond liner to check for structural integrity, damage, and evidence

of leaking; (2) a review of the liner documentation for the pond; and (3) a review of all documentation related to liner repair and maintenance performed since the last evaluation. For the purposes of this evaluation, evidence of leaking also includes evidence that the actual permeability exceeds the design permeability. The permittee is not required to drain an operating pond or to inspect below the waterline during the evaluation. A copy of the engineer's evaluation report must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.

G. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall maintain at least 2.0 feet of freeboard in the pond except when:

(1) the freeboard requirement temporarily cannot be maintained due to a large storm event that requires the additional retention capacity to be used for a limited period of time;

(2) the freeboard requirement temporarily cannot be maintained due to upset plant conditions that require the additional retention capacity to be used for treatment for a limited period of time; or

(3) the pond was not required to have at least 2.0 feet of freeboard according to the requirements at the time of construction.

8. Chronic toxic criteria apply at the edge of the mixing zone. The chronic aquatic life mixing zone for Outfall 001 is defined as 300 feet downstream and 100 feet upstream from the point of discharge.

9. The method for available cyanide using flow injection, ligand exchange, and amperometry (Method OIA-1677-09) may be used but is not specifically required. Approved analytical methods for available cyanide also include Cyanide Amenable to Chlorination (CATC) (Method 4500 CN-G-2011), and Automated Distillation and Colorimetry (Method Kelada-01), which are approved in 40 CFR Part 136.

10. Effluent Limitation Tiers

Effluent Limitation Tier 1 is effective beginning upon the date of permit issuance until the date of permit expiration or Effluent Limitation Tier 2 is in effect.

A change in Effluent Limitation Tiers must be initiated by submitting the following information to the TCEQ, Applications Review and Processing Team (MC-148) and the TCEQ, Region 12 Office by the deadlines specified below.

The permittee shall submit notification of a change in Effluent Limitation Tiers at least 45 days prior to the month that monthly average production is reasonably expected to increase above the current Effluent Limitation Tier as specified on Pages 2 and 2a of the permit.

The notification must include:

A. the current effective Effluent Limitation Tier;

B. the month and year that monthly average production is expected to increase above the current Effluent Limitation Tier as specified on Pages 2 and 2a of the permit;

C. the projected monthly average production value for the month specified per item 10.B. above; and

D. the Effluent Limitation Tier that will be in effect.

Effluent Limitation Tier 2 is effective beginning upon the month and year specified per the notification requirements described above, and lasting through the date of permit expiration, or until Effluent Tier 3 is in effect.

Effluent Limitation Tier 3 is effective beginning upon the month and year specified per the notification requirements described above and lasting through the date of permit expiration.

11. COOLING WATER INTAKE STRUCTURE REQUIREMENTS

The permittee shall provide written notification to the TCEQ Industrial Permits Team (MC 148) and the Region 12 Office of any change in the method by which the facility obtains water for cooling purposes. This notification must be submitted 30 days prior to any such change and must include a description of the planned changes. The TCEQ may, upon review of the notification, reopen the permit to include additional terms and conditions as necessary.

CHRONIC BIOMONITORING REQUIREMENTS: MARINE

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

1. Scope, Frequency and Methodology

a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival or growth of the test organisms.

b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified below and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms," third edition (EPA-821-R-02-014) or its most recent update:

1) Chronic static renewal 7-day survival and growth test using the mysid shrimp (*Americamysis bahia*) (Method 1007.0). A minimum of eight replicates with five organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

2) Chronic static renewal 7-day larval survival and growth test using the inland silverside (*Menidia beryllina*) (Method 1006.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

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

c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 3%, 5%, 6%, 8%, and 11% effluent. The critical dilution, defined as 8% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

d. This permit may be amended to require a WET limit, a chemical-specific limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. Should a **mysid shrimp** test fail (i.e., demonstrate significant toxicity), the testing frequency for that test species increases to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes. If three or more failures are demonstrated during the permit term for the mysid shrimp, a WET limit will be included for that species in the subsequently reissued permit. Any two lethal failures in a three-month period will require the permittee to initiate a TRE (see Part 4. Toxicity Reduction Evaluation).

f. Testing Frequency Reduction (**inland silverside only**)

1) If none of the first four consecutive **inland silverside** quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive **inland silverside** quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee will resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean dry weight of surviving mysid shrimp of 0.20 mg or greater;

3) a control mean dry weight for surviving unpreserved inland silverside of 0.50 mg or greater and 0.43 mg or greater for surviving preserved inland silverside.

4) a control coefficient of variation percent (CV%) between replicates of 40 or less in the growth and survival tests;

5) a critical dilution CV% of 40 or less in the growth and survival endpoints for either growth and survival test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 37 or less for mysid shrimp growth; and

7) a percent minimum significant difference of 28 or less for inland silverside growth.

b. Statistical Interpretation

1) For the mysid shrimp and the inland silverside larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled “Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)” (EPA 821-B-00-004) provides guidance on determining the validity of test results.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in

the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Part 1.b. will be used when making a determination of test acceptability.

7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge as close as possible to the discharge point, but unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of preexisting instream toxicity (i.e. fails to fulfill the test acceptance criteria of item 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of item 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3 of this Section.

3) The synthetic dilution water shall consist of standard, reconstituted seawater.

Upon approval, the permittee may substitute other dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th, for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the

month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the mysid shrimp, Parameter TLP3E, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the mysid shrimp, Parameter TOP3E, report the NOEC for survival.

3) For the mysid shrimp, Parameter TXP3E, report the LOEC for survival.

4) For the mysid shrimp, Parameter TWP3E, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

5) For the mysid shrimp, Parameter TPP3E, report the NOEC for growth.

6) For the mysid shrimp, Parameter TYP3E, report the LOEC for growth.

7) For the inland silverside, Parameter TLP6J, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

8) For the inland silverside, Parameter TOP6J, report the NOEC for survival.

9) For the inland silverside, Parameter TXP6J, report the LOEC for survival.

10) For the inland silverside, Parameter TWP6J, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the inland silverside, Parameter TPP6J, report the NOEC for growth.

12) For the inland silverside, Parameter TYP6J, report the LOEC for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply **only to the inland silverside** and only when a test demonstrates a significant effect at the critical dilution. Significant effect and significant lethality were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth at the critical dilution when compared to the growth of the test organism in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is

defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE Action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE Action Plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures” (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled, “Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic

Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond their control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and to specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

MYSID SHRIMP SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers								Mean Percent Survival			CV%*
	A	B	C	D	E	F	G	H	24h	48h	7 day	
0%												
3%												
5%												
6%												
8%												
11%												

* Coefficient of Variation = standard deviation x 100/mean

DATA TABLE FOR GROWTH OF MYSID SHRIMP

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
A						
B						
C						
D						
E						

TABLE 1 (SHEET 2 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

DATA TABLE FOR GROWTH OF MYSID SHRIMP (Continued)

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
F						
G						
H						
Mean Dry Weight (mg)						
CV%*						
PMSD						

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

TABLE 1 (SHEET 3 OF 4)

INLAND SILVERSIDE MINNOW LARVAL SURVIVAL AND GROWTH TEST

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

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

INLAND SILVERSIDE SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
0%									
3%									
5%									
6%									
8%									
11%									

* Coefficient of Variation = standard deviation x 100/mean

TABLE 1 (SHEET 4 OF 4)

INLAND SILVERSIDE LARVAL SURVIVAL AND GROWTH TEST

INLAND SILVERSIDE GROWTH

Percent Effluent	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight (mg)	CV%*
	A	B	C	D	E		
0%							
3%							
5%							
6%							
8%							
11%							
PMSD							

Weights are for: ____ preserved larvae, or ____ unpreserved larvae

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: MARINE

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

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this Section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

Acute 24-hour static toxicity test using the inland silverside (*Menidia beryllina*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, then repeat, an invalid test during the same reporting period. The repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in Part 2.b., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, additional toxicity testing, and other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other

potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the mysid shrimp, Parameter TIE3E, enter a “0” if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”

2) For the inland silverside, Parameter TII6J, enter a “0” if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

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

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

b. If one or both of the two retests specified in item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5 of this Section.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures” (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled “Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/080) and “Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The

effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

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

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

The permittee previously demonstrated such and is no longer required to test with the mysid shrimp and may continue to use the IAP for the inland silverside previously submitted to and approved by TCEQ.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and to specify a chemical specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 1)

INLAND SILVERSIDE SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000520000, U.S. Environmental Protection Agency (EPA) ID No. TX0003689, to discharge to water in the state

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

Applicant: G-3 Chickadee Purchaser, LLC
2000 Goodyear Drive
Houston, Texas 77017

Prepared By: Thomas E. Starr
Wastewater Permitting Section
Water Quality Division
(512) 239-4570

Date: April 9, 2025

Permit Action: Renewal with changes

I. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, three years from the date of permit issuance according to Section X.D.3 of the fact sheet.

II. APPLICANT ACTIVITY

The applicant currently operates Goodyear Houston Chemical Plant, an emulsion Styrene Butadiene (SBR) crumb rubber and concentrated latex products manufacturing facility.

III. DISCHARGE LOCATION

As described in the application, the facility is located at 2000 Goodyear Drive, in the City of Houston, Harris County, Texas 77017. Discharge is to Sims Bayou Tidal, which is a portion of the Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin.

IV. RECEIVING STREAM USES

The designated uses for Segment No. 1007 are navigation and industrial water supply.

V. STREAM STANDARDS

The general criteria and numerical criteria that make up the stream standards are provided in 30 TAC §§ 307.1 - 307.10.

VI. DISCHARGE DESCRIPTION

The following is a quantitative description of the discharge described in the monthly effluent report data for the period January 2020 through December 2024. The "average of daily average" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "maximum of daily maximum" values presented in the

following table are the individual maximum values for the reporting period for each pollutant. Flows are expressed in million gallons per day (MGD). All pH values are expressed in standard units (SU). Bacteria levels are expressed in colony forming units (cfu) or most probable number (MPN) per 100 mL.

A. Flow

Outfall	Frequency	Average of Daily Average, MGD	Maximum of Daily Maximum, MGD
001	Continuous	1.73	3.14
101 [1]	Intermittent	0.002	0.056
002	Intermittent	1.13	29.1

B. Temperature

Outfall	Average of Daily Average, °F	Maximum of Daily Maximum, °F
001	71.4	103

C. Effluent Characteristics

Outfall	Pollutant	Average of Daily Average		Maximum of Daily Maximum	
		lbs/day	mg/L	lbs/day	mg/L
001	Total Suspended Solids (TSS)	371		7570	
	Ammonia-Nitrogen	63.5		335	
	Carbonaceous Biochemical Oxygen Demand, 5-day ($CBOD_5$)	90.4		570	
	Chemical Oxygen Demand (COD)	1360		3270	
	Oil and Grease	49.6		268	
	Chromium, Total				0.008
	Copper, Total	0.054		0.390	
	Cyanide, Free	0.014		0.300	
	Phenols				0.158
	Zinc, Total	0.868		4.78	
	pH, SU	6.19 SU, minimum		9.732 SU	

C. Effluent Characteristics

Outfall	Pollutant	Average of Daily Average,	Maximum of Daily Maximum,
		mg/L	mg/L
101 [1]	Enterococci	1.69	2420
	$CBOD_5$		22.4
	TSS		400
002	Total Organic Carbon (TOC)		55.4
	Oil and Grease		6.81
	Zinc, Total		0.419
	pH, SU	6.8 SU, minimum	7.84 SU

Effluent limit violations documented in the monthly effluent reports are summarized in the following table.

[1] Internal Outfall 101 is removed from the draft permit per amendment request.

D. Effluent Limitation Violations

Outfall	Pollutant (units)	Month/ Year	Daily Average		Daily Maximum	
			Limit	Reported	Limit	Reported
001	TSS	10/2022	799	-	1361	2390
		1/2024		1415		7570
	pH (SU)	11/2024	-	-	9.0	9.73
101	Enterococci	1/2021	35	-	104	2420
		5/2021		54		1730
	TSS	3/2020	-	-	65	114
		6/2020				68.6
		7/2020				113
		8/2020				79
		6/2021				400

The draft permit was not changed to address these effluent limit violations at Outfall 001 because of the infrequent nature of the exceedances and internal Outfall 101 being removed in the draft permit.

VII. DRAFT EFFLUENT LIMITATIONS

Effluent limitations are established in the draft permit as noted in Appendix D.

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	29.706725 N	95.257799 W
002	29.706662 N	95.257903 W

VIII. SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

IX. SUMMARY OF CHANGES FROM EXISTING PERMIT

The permittee requested the following change that the Executive Director recommends granting:

> Removal of internal Outfall 101 as the domestic sewage is now routed to the City of Houston Sims Bayou Plant (WQ0010495002).

The following additional changes have been made to the draft permit:

1. Pages 3-13 were updated (May 2021 version).
2. Renewal to expire in three years not five per the recommendation of the biomonitoring memo which are discussed in Section X.D.3.
3. More stringent limits for TSS, COD, and oil and grease have been placed in the draft permit on Page 2.
4. Footnote 3 and 4 on Page 2 of the draft permit values for Tier 2 and 3 have changed.
5. The biomonitoring requirement for testing mysid shrimp has changed to *Americamysis bahia* from the existing permit which required *Mysidopsis bahia*.

6. Other Requirement No. 4 is not carried forward to the draft since it related to the removed domestic wastewater treatment plant and it is replaced with a new Other Requirement No. 4 condition prohibiting the discharge of treated domestic wastewater.

X. DRAFT PERMIT RATIONALE

The following section sets forth the statutory and regulatory requirements considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to the applicable effluent limitation guidelines and water quality standards.

A. REASON FOR PERMIT ISSUANCE

The applicant applied to the TCEQ for a renewal of TPDES Permit No. WQ0000520000, which authorizes the discharge of treated process wastewater commingled with miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater, and stormwater at a daily average flow not to exceed 2,9000.000 gallons per day via Outfall 001; and stormwater on an intermittent and flow variable basis via Outfall 002.

The executive director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.

B. WATER QUALITY SUMMARY

Discharge Routes
The discharge route is to Sims Bayou Tidal, which is a portion of the Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin. The designated uses for Segment No. 1007 are navigation and industrial water supply. Effluent limitations and conditions established in the draft permit comply with state water quality standards and the applicable water quality management plan. The effluent limits in the draft permit will maintain and protect the existing instream uses. Additional discussion of the water quality aspects of the draft permit can be found at Section X.D. of this fact sheet.

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

Impaired Water Bodies
Segment No. 1007 is currently listed on the state's inventory of impaired and threatened waters, the 2014 Clean Water Act Section 303(d) list. The listings are for dioxin in edible tissue and polychlorinated biphenyls (PCBs) in edible tissue in Houston Ship Channel (HSC) from a point immediately upstream of Greens Bayou Tidal to immediately

upstream of the 69th Street WWTP outfall (AU 1007_01), Sims Bayou Tidal from the HSC confluence to a point 11 km (6.8 mi) upstream (AU 1007_02), Hunting Bayou Tidal from the HSC confluence to IH-10 (AU 1007_03), Brays Bayou Tidal from the HSC confluence to downstream of IH-45 (AU 1007_04), Vince Bayou Tidal from the HSC confluence to SH 225 (AU 1007_05), Berry Bayou from the HSC confluence to a point 2.4 km (1.5 mi) upstream of the Sims Bayou confluence (AU1007_06), Buffalo Bayou from immediately upstream of 69th Street WWTP outfall to US 59 (AU 1007_07) and Little Vince Bayou Tidal from the Vince Bayou confluence to SH 225 (AU 1007_08). Segment No. 1007 is also listed for bacteria in water and toxicity in sediment in Vince Bayou Tidal from the HSC confluence to SH 225 (AU 1007_05).

PCBs that were analyzed to the minimum analytical level (MAL) have been previously reported as "non-detect". Dioxins were reported as not being manufactured or used in a process at the facility, nor does the permittee believe dioxin to be present in the effluent. The domestic wastewater treatment facility, which did discharge via internal Outfall 101, has been demolished (domestic wastewater is now routed to the City of Houston) and there are no further expected sources of bacteria in the waste streams authorized for discharge. No further impairment of PCBs, dioxins, toxicity in sediment, and bacteria is expected to occur for the Houston Ship Channel/Buffalo Bayou Tidal (Segment No. 1007).

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

C. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

1. GENERAL COMMENTS

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

The draft permit authorizes the discharge of treated process wastewater commingled with treated miscellaneous cleaning wastes, treated cooling tower blowdown, treated stormwater, and stormwater via Outfall 001 at a daily average flow not to exceed 2.9 MGD**,** and the intermittent and flow variable discharge of stormwater via Outfall 002**.**

The discharge of treated process wastewater via Outfall 001 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 428. A new source determination was performed, and the discharge of treated process wastewater is not a new source as defined at 40 CFR §122.2. Therefore, new source performance standards (NSPS) are not required for this discharge. Outfall 001 utility wastewater and stormwater and Outfall 002 stormwater are not subject to federal effluent guidelines but are continued in the draft permit based on BPJ.

The applicant operates Goodyear Houston Chemical Plant, an emulsion Styrene Butadiene (SBR) crumb rubber and concentrated latex products manufacturing facility. Products include emulsion styrene-butadiene rubber (e-SBR), crumb

rubber, and latex, the production of which begins with butadiene and styrene from the plant tank farm storage area. Raw material storage operations include a Butadiene inhibitor scrubber system and styrene storage tank/decanting operations, both of which generate process wastewater. Operations periodically discharge caustic wastewater from the scrubbing operation to the wastewater treatment facility.

The manufacturing process blends 1,3-Butadiene and Styrene with various soap emulsions, electrolytes, and water in a reactor series to produce SBR Latex. The latex is processed through the monomer recovery area to recycle unreacted Butadiene and Styrene.

The SBR crumb rubber finishing process consists of latex blending, coagulation, and drying. After blending SBR latex with various oils and additives, concentrated sulfuric acid and brine solution are added to the SBR latex separating the SBR copolymer from solution as crumb rubber. The crumb rubber slurry is separated into solid and liquid streams and transferred to conversion tanks. Solids are routed to a re-slurry tank, screened for a second time, and then pass through an expeller and enter the dryer. Finishing process operations discharge wastewater from all parts to the wastewater pit/trench system.

Stripped latex from the reactor/recovery process flows through a series of heaters and concentrators to increase the percent solids of latex (high solids latex). Process and loading operations generate process wastewater which discharges to the wastewater pit/trench system.

Blowdown and backflush operations associated with cooling towers, water softener units, process equipment/pumps, and water clarifier generate wastewater, as part of routine operations.

Routine plantwide cleaning and maintenance contribute to daily plantwide wastewater generation. The operational units are Tank Farm, Reactor/recovery, Finishing, Latex Concentration, and Plantwide miscellaneous equipment. Domestic wastewater is routed to the City of Houston Sims Bayou plant as it is still being generated and no longer being discharged under the authority of this permit.

2. CALCULATIONS

See Appendix A of this fact sheet for calculations and further discussion of technology-based effluent limitations proposed in the draft permit.

3. 316(B) COOLING WATER INTAKE STRUCTURES

a. SCREENING

The Goodyear Houston Chemical Plant obtains water from a public water system (PWS), PWS No. 1010013, and groundwater from water wells for cooling purposes. According to the rules applicable to cooling water intake structures (40 CFR § 125.91(c)), the use of water from a PWS or groundwater wells for cooling purposes does not constitute the

use of a cooling water intake structure; therefore, the facility is not subject to CWA Section 316(b) or 40 CFR Part 125, Subpart J.

b. PERMIT ACTION

Other Requirement No. 11 has been carried forward to the draft permit requiring the permittee to provide written notification to the TCEQ of any change in the method by which the facility obtains water for cooling purposes.

D. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

1. GENERAL COMMENTS

The *Texas Surface Water Quality Standards* found at 30 TAC Chapter 307 state that surface waters will not be toxic to man from ingestion of water, consumption of aquatic organisms, or contact with the skin, or to terrestrial or aquatic life. The methodology outlined in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards* (IPs) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health. Calculated water quality-based effluent limits can be found in Appendix B of this fact sheet.

TPDES permits contain technology-based effluent limits reflecting the best controls available. Where these technology-based permit limits do not protect water quality or the designated uses, additional water quality-based effluent limitations or conditions are included. State narrative and numerical water quality standards are used in conjunction with EPA criteria and other toxicity databases to determine the adequacy of technology-based permit limits and the need for additional water quality-based controls. A comparison of technology-based effluent limits and calculated water quality-based effluent limits can be found in Appendix D of this fact sheet.

2. AQUATIC LIFE CRITERIA

a. SCREENING

Water quality-based effluent limitations are calculated from saltwater aquatic life criteria found in Table 1 of the *Texas Surface Water Quality Standards* (30 TAC Chapter 307) for Outfall 001. The current permit authorizes the discharge of stormwater on an intermittent and variable basis for Outfall 002. Typically, critical conditions are not developed for stormwater outfalls.

Acute saltwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic saltwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge

enters Sims Bayou Tidal. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Sims Bayou Tidal.

TCEQ uses the mass balance equation to estimate dilution at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the aquatic life mixing zone is calculated using the two-year maximum monthly average flow of 2.02 MGD and the seven-day, two-year low-flow (7Q2) of 39.07 cfs for Sims Bayou Tidal. If the estimated effluent percentage is less than 8%, then 8% is used. The estimated dilution at the ZID is calculated using the two-year maximum monthly average flow of 2.02 MGD and 25% of the 7Q2. If the estimated effluent percentage is less than 30%, then 30% is used. The following critical effluent percentages are being used:

Acute Effluent %	30%	Chronic Effluent %	8%

General Screening Procedures

Wasteload allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the *Texas Surface Water Quality Standards*, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, the instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a lognormal probability distribution, a given coefficient of variation (0.6), and a 99th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level.

The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include the segment-specific value for TSS according to the *IPs*. The segment value is 8 mg/L for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the *IPs*.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application equals or exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application equals or exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

b. PERMIT ACTION

Analytical data provided was screened against the water quality-based effluent limitations and no limits are required.

Existing permit limits for total copper, free cyanide, and total zinc at Outfall 001 are compared to newly calculated water quality-based effluent limitations and the existing limitations are identical and continued in the draft permit based on the anti-backsliding requirements in section 402(o) of the Clean Water Act.

3. WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA (7-DAY CHRONIC)

a. SCREENING AND REASONABLE POTENTIAL ANALYSIS

The existing permit includes chronic marine biomonitoring requirements at Outfall 001.

In the past three years, the permittee performed 19 chronic tests, with two demonstrations of significant toxicity (i.e., two failures) by the mysid shrimp and no failures by the inland silverside.

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures by the inland silverside, a determination of no RP was made.

Because of the two failures by the mysid shrimp, a three-year permit will be issued in accordance with the methodology referenced above.

Upon another failure (i.e., another demonstration of significant toxicity), the testing frequency for the mysid shrimp will increase to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the permittee may return to the quarterly testing frequency. If three or more failures are demonstrated during the three-year permit term, RP will have been demonstrated and a WET limit will be included in the subsequently reissued permit.

All of the test results were used for this determination.

b. PERMIT ACTION

The provisions of this section apply to Outfall 001.

Based on information contained in the permit application, the TCEQ has determined that there may be pollutants present in the effluent(s) that may have the potential to cause toxic conditions in the receiving stream.

Whole effluent toxicity testing (biomonitoring) is the most direct measure of potential toxicity, which incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity. The biomonitoring procedures stipulated as a condition of this permit are as follows:

i) Chronic static renewal 7-day survival and growth test using the mysid shrimp (*Americamysis bahia*). The frequency of the testing shall be once per quarter.

ii) Chronic static renewal 7-day larval survival and growth test using the inland silverside (*Menidia beryllina*). The frequency of the testing shall be once per quarter.

Toxicity tests shall be performed in accordance with protocols described in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms,* Third Edition (EPA-821-R-02-014) or the latest revision. The stipulated test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the state water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge.

This permit may be reopened to require effluent limits, additional testing, or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

c. DILUTION SERIES

The permit requires five (5) dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 3%, 5%, 6%, 8%, and 11%. The low-flow effluent concentration (critical dilution) is defined as 8% effluent.

The dilution series outlined above was calculated using a 0.75 factor applied to the critical dilution. The critical dilution is the estimated effluent dilution at the edge of the aquatic life mixing zone, which is discussed in Section X.D.2.a. of this fact sheet.

4. AQUATIC ORGANISM TOXICITY CRITERIA (24-HOUR ACUTE)

a. SCREENING

The existing permit includes 24-hour acute marine biomonitoring requirements for Outfall 001. In the past three years, the permittee has

performed six 24-hour acute tests, with no demonstrations of significant mortality. Minimum 24-hour acute marine biomonitoring requirements are proposed in the draft permit as outlined below.

b. PERMIT ACTION

Twenty-four-hour 100% acute biomonitoring tests are required at Outfall 001 at a frequency of once per six months for the life of the permit.

The biomonitoring procedures stipulated as a condition of this permit are as follows:

i) The requirement to comply with 307.6(e)(2)(B), which prohibits acute toxicity as measured by the 24-hour acute test, may be exempted upon proof that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g. metals) form a salt compound. Following the exemption, the permit may be amended to include an ion-adjustment protocol (IAP), alternate species testing, or single species testing. The permittee previously demonstrated such and is no longer required to perform the 24-hour acute test with the mysid shrimp and may continue to use the IAP for the inland silverside previously submitted to and approved by TCEQ.

ii) Acute 24-hour static toxicity test using the inland silverside (*Menidia beryllina*). A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.

Toxicity tests shall be performed in accordance with protocols described in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition (EPA-821-R-02-012) or the latest revision.

5. AQUATIC ORGANISM BIOACCUMULATION CRITERIA

a. SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of fish tissue found in Table 2 of the *Texas Surface Water Quality Standards* (30 TAC Chapter 307).

Outfall 001
Fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone for discharges into narrow tidal rivers. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the two-year average monthly average flow of 1.85 MGD and the harmonic mean flow of 68.30 cfs for Sims Bayou Tidal. If the

estimated effluent percentage is less than 4%, then 4% is used. The following critical effluent percentage is being used:

Human Health Effluent %: 4%

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

Significant potential is again determined by comparing reported analytical data against 70 percent and 85 percent of the calculated daily average water quality-based effluent limitation.

b. PERMIT ACTION

Analytical data was provided for screening against water quality-based effluent limitations and no limits are required.

6. DRINKING WATER SUPPLY PROTECTION

a. SCREENING

Segment No. 1007, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

b. PERMIT ACTION

None.

7. TOTAL DISSOLVED SOLIDS, CHLORIDE, AND SULFATE STANDARDS PROTECTION

a. SCREENING

Segment No. 1007, which receives the discharge from this facility, does not have criteria established for TDS, chloride, or sulfate in 30 TAC Chapter 307; therefore, no screening was performed for TDS, chloride, or sulfate in the effluent.

b. PERMIT ACTION

None.

8. PROTECTION OF pH STANDARDS

a. SCREENING

The existing permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges directly into Houston Ship Channel/Buffalo Bayou Tidal, Segment No. 1007. Screening was performed to ensure that these existing pH limits would not cause a violation of the 6.5 – 9.0 SU pH criteria for Houston Ship Channel/Buffalo Bayou Tidal (see Appendix C).

b. PERMIT ACTION

The existing effluent limits of 6.0 – 9.0 SU are adequate to ensure that the discharge will not violate the pH criteria in Houston Ship Channel/Buffalo Bayou Tidal and are continued in the draft permit.

9. DISSOLVED OXYGEN PROTECTION

a. SCREENING

A dissolved oxygen modeling analysis was previously performed for this permit on May 16, 2018, by Kristin L. Seiter. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. The existing permitted effluent set of 324 lbs/day $CBOD_5$ and 383 lbs/day NH_3-N is consistent with *WLE-1R for the Houston Ship Channel System (September 2006)* and applicable to this permit.

b. PERMIT ACTION

The calculated technology-based effluent daily average limitation for BOD_5 are less stringent than the recommended water quality-based $CBOD_5$ effluent limitation; therefore, the existing 324 lbs./day daily average $CBOD_5$ effluent limitations is continued in the draft permit.

10. BACTERIA STANDARDS PROTECTION

a. SCREENING

The domestic wastewater treatment plant was demolished and domestic wastewater is sent to the City of Houston by lift station.

b. PERMIT ACTION

Removed internal Outfall 101.

11. THERMAL STANDARDS PROTECTION

a. SCREENING

Effluent passed temperature screening thus considered protective of segment temperature criteria (95 deg. F). No additional temperature limits are recommended.

b. PERMIT ACTION

Temperature monitoring/reporting requirements established in the existing permits are continued in the draft permit.

XI. PRETREATMENT REQUIREMENTS

This facility is not defined as a publicly owned treatment works. Pretreatment requirements are not proposed in the draft permit.

XII. VARIANCE REQUESTS

No variance requests have been received.

XIII. PROCEDURES FOR FINAL DECISION

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

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

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

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final

decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

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

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

For additional information about this application, contact Thomas E. Starr at (512) 239-4570.

XIV. ADMINISTRATIVE RECORD

The following section is a list of the fact sheet citations to applicable statutory or regulatory provisions and appropriate supporting references.

A. PERMIT(S)

TPDES Permit No. WQ0000520000 issued on October 16, 2019.

B. APPLICATION

TPDES wastewater permit application received on April 19, 2024 and additional information received on April 25, 2024.

C. 40 CFR CITATION(S)

40 CFR Part 428, Subparts B and D (BPT and BAT).

D. LETTERS/MEMORANDA/RECORDS OF COMMUNICATION

Letter dated April 29, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for thermal evaluation procedures).

Letter dated May 12, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for thermal evaluation procedures).

Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).

Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).

Letter dated December 28, 2015, from L'Oreal Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for procedures to determine reasonable potential for whole effluent toxicity limitations).

Letter dated December 28, 2015, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for procedures to determine reasonable potential for whole effluent toxicity limitations).

TCEQ Interoffice Memorandum dated April 8, 2025, from M. A. Wallace, PhD of the Standards Implementation Team, Water Quality Assessment Section, to the Industrial Permits Team, Wastewater Permitting Section (Standards Memo).

TCEQ Interoffice Memorandum dated August 1, 2024, from Josi Robertson of the Water Quality Assessment Team, Water Quality Assessment Section, to the Industrial Permits Team, Wastewater Permitting Section (Critical Conditions Memo).

TCEQ Interoffice Memorandum dated November 4, 2024, from Xing Lu, P.E. of the Water Quality Assessment Team, Water Quality Assessment Section, to the Industrial Permits Team, Wastewater Permitting Section (Modeling Memo).

TCEQ Interoffice Memorandum dated August 30, 2024, from Brad Caston of the Standards Implementation Team, Water Quality Assessment Section, to the Industrial Permits Team, Wastewater Permitting Section (Biomonitoring Memo).

E. MISCELLANEOUS

The *State of Texas 2022 Integrated Report* – Texas 303(d) List (Category 5), TCEQ, July 7, 2022.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 1, 2018, as approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not yet approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not yet approved by EPA Region 6.

Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Third Edition (EPA-821-R-02-014).

Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition (EPA-821-R-02-012).

Procedures to Implement the Texas Surface Water Quality Standards, TCEQ, June 2010, as approved by EPA Region 6.

Procedures to Implement the Texas Surface Water Quality Standards, TCEQ, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.

Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.

Appendix A
Calculated Technology-Based Effluent Limits

The Goodyear Tire and Rubber Company's, Goodyear Houston Chemical Plant produces emulsion Styrene Butadiene (SBR) crumb rubber and concentrated latex. Process wastewaters generated at this facility is subject to federal effluent limitations guidelines found in 40 CFR §428.22, §428.23, §428.42 and §428.43.

Limits for phenols and total chromium are based on BPJ and continued from the existing permit based on anti-backsliding rules.

Best Available Technology Economically Achievable (BAT) has been applied to chemical oxygen demand (40 CFR §428.23 and §428.43), and Best Practicable Control Technology Currently Available (BPT) (40 CFR §428.22 and §428.42) has been applied to total suspended solids, biochemical oxygen demand, 5-day, and oil and grease. BPT is used for the above parameters, as BCT guidelines are not included in 40 CFR Part 428, and New Source Performance Standards (NSPS) are not applicable.

For all 40 CFR §428.22, §428.23, §428.42 and §428.43, the technology-based effluent limitations were calculated by multiplying the actual production expressed as pounds per 1,000 pounds of product manufactured per day by the applicable effluent limitation guideline (ELG).

Example:

Allocation (lbs./day) = Production (1000 lbs. product/day) x Pollutant (lbs. per 1000 lbs. of product)

= 985 1000 lbs. product per day x 2.08 lbs. per 1000 lbs. product

= **2,049 lbs. per day**

EPA guidance provided in the *NPDES Permit Writers' Manual* (September 2010) recommends a general guideline to consider up to 20 percent fluctuation in production to be within the range of normal variability when considering the application of tiered effluent limitations. The calculated technology-based effluent limitations represent a 20 percent increase from one tier to the next. Tier 1 is a baseline effluent limitation set based on the actual production data provided above. The maximum monthly production used to calculate the Tier 1 (baseline) effluent limitations is multiplied by 20% to obtain production numbers representative of a 20 percent or greater variance in production. In the draft permit, substantive increases in actual production above specified thresholds initiates an increase to the next tier of effluent limitations, ending with the third tier.

Allocations for stormwater and utility wastewater are continued from the fact sheet developed for the existing permit and included based on EPA's "building block approach" outlined in the *NPDES Permit Writers' Manual* (September 2010). The calculated effluent limitation allocations are based on the effluent flow of each wastestream as reported in the application.

The following equation was used to calculate the daily average and daily maximum mass effluent limitations for stormwater and utility wastewater components for each tier:

Parameter (lbs./day) = Parameter (mg/L) x wastewater flow (MGD) x 8.345 (conversion factor)

The final effluent limitations calculated using the effluent guidelines, and wastewater allocations for each production tier are presented at the end of each table.

$CBOD_5$

The BPJ for $CBOD_5$ is based on the relationship established between BOD_5 and $CBOD_5$ in Metcalf & Eddy, Inc. Wastewater Engineering: Treatment and Reuse. Boston: McGraw-Hill, 2003 (adopted from 40 CFR Part 133 – Secondary Treatment Regulation). Based on this, 83.33% of the calculated BOD_5 in each tier has been assumed to be $CBOD_5$.

Example:

Tier 1 calculated daily average BOD_5 = 401 lbs./day. Therefore,

$CBOD_5$ = 83.33% x 401 lbs./day BOD_5

= 334.15 lbs./day

Single Grab Effluent Limitations

Single grab limits for TSS and COD are calculated by using the following formula:

Single grab mg/L = [(Daily Max Mass Effluent Limit x 2) / (8.345 x Permitted Flow)]

Example:

Tier 1 single grab limits for COD:

COD = [(3,643 lbs./day x 2) / (8.345 x 2.9 MGD)

= 301 mg/L

Production Data
(Application)

SBR Crumb Rubber	837,422 lbs/day
SBR Latex	147,711 lbs/day
	985,133 lbs/day or 985 1000 lbs/day

Tier 1 – Calculated Technology-based Effluent Limitations (BPT and BAT)

SUBPART B, BPT (428.22)	*1000 lbs. of crumb rubber/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	837	COD	8	12	6,696.00	10,044.00
	837	BOD_5	0.4	0.6	334.8	502.2
	837	TSS	0.65	0.98	544.05	820.26
	837	O&G	0.16	0.24	133.92	200.88
SUBPART B, BAT (428.23)	*1000 lbs. of crumb rubber /day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	837	COD	2.08	3.12	1,740.96	2,611.44
	837	BOD_5	0.08	0.12	66.96	100.44
	837	TSS	0.16	0.24	133.94	200.88
	837	O&G	0.08	0.12	66.96	100.44
SUBPART D, BPT (428.42)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	148	COD	6.85	10.27	1,013.8	1,519.96
	148	BOD_5	0.34	0.51	50.32	75.48
	148	TSS	0.55	0.82	81.4	121.36
	148	O&G	0.14	0.21	20.72	31.08
SUBPART D, BAT (428.43)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	148	COD	1.78	2.66	263.44	393.68
	148	BOD_5	0.07	0.11	10.36	16.28
	148	TSS	0.14	0.21	20.72	31.08
	148	O&G	0.07	0.11	10.36	16.28

TOTAL ALLOWABLE LOADINGS	*Parameter*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	COD [1]	2,004	3,005
	BOD_5 [2]	385.12	577.68
	TSS [2]	625.45	941.62
	O&G [2]	154.64	231.96

[1] Total allowable loadings for COD are the sum of Subpart B, BAT (428.23) and Subpart D, BAT (428.43).
[2] Total allowable loadings for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), and Subpart D, BPT (428.42).

Example:

Daily Average COD Limit = 1,740.96 lbs./day + 263.44 lbs./day
= 2,004 lbs./day

Stormwater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Based on the reported stormwater flow in the application.	0.185	COD	130	195	200.7	301.0
		BOD_5	10	20	15.4	30.9
		TSS	30	100	46.3	154.4
		O&G	15	20	23.2	30.9

Utility Wastewater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Flow is based on the reported cooling tower blowdown flow in the application. Limits are based on 40 CFR Section 423.12 for low volume wastes (utility wastes) and the existing permit.	0.207	COD	130	195	224.6	336.8
		BOD_5	N/A	N/A		
		TSS	30	100	51.8	172.7
		O&G	15	20	25.9	34.5

Final limits for Tier 1	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	COD [1]	N/A	N/A	**2,429**	**3,643**
	BOD_5 [2]	N/A	N/A	**401**	**609**
	TSS [2]	N/A	N/A	**724**	**1,269**
	O&G [2]	N/A	N/A	**204**	**297**

[1] Final Tier 1 limits for COD are the sum of Subpart B, BAT (428.23), Subpart D, BAT (428.43), Stormwater, and Utility Wastewater.

[2] Final Tier 1 limits for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), Subpart D, BPT (428.42), Stormwater, and Utility Wastewater.

Example:

Daily Avg. COD Limit = 2,004 lbs./day + 200.70 lbs./day + 224.6 lbs./day
= **2,429 lbs./day**

BOD to CBOD conversion:
401 lbs/day * 83.33% = 334 lbs/day
609 lbs/day * 83.33% = 507 lbs/day

Tier 2 – Calculated Technology-based Effluent Limitations continued (Allocations)

SUBPART B, BPT (428.22)	*1000 lbs. of crumb rubber/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	1,004.4	COD	8	12	8,035.2	12,052.8
	1,004.4	BOD_5	0.4	0.6	401.76	602.64
	1,004.4	TSS	0.65	0.98	652.86	984.31
	1,004.4	O&G	0.16	0.24	160.7	241.06
SUBPART B, BAT (428.23)	*1000 lbs. of crumb rubber/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	1,004.4	COD	2.08	3.12	2,089.15	3,133.73
	1,004.4	BOD_5	0.08	0.12	80.35	120.53
	1,004.4	TSS	0.16	0.24	160.7	241.06
	1,004.4	O&G	0.08	0.12	80.35	120.53
SUBPART D, BPT (428.42)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	177.6	COD	6.85	10.27	1,216.56	1,823.95
	177.6	BOD_5	0.34	0.51	60.38	90.58
	177.6	TSS	0.55	0.82	97.68	145.63
	177.6	O&G	0.14	0.21	24.86	37.30
SUBPART D, BAT (428.43)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	177.6	COD	1.78	2.66	316.13	472.42
	177.6	BOD_5	0.07	0.11	12.43	19.54
	177.6	TSS	0.14	0.21	24.86	37.30
	177.6	O&G	0.07	0.11	12.43	19.54

TOTAL ALLOWABLE LOADINGS	*Parameter*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	COD [1]	2,405	3,606
	BOD_5 [2]	462.14	693.22
	TSS [2]	750.54	1,129.94
	O&G [2]	185.56	278.36

[1] Total allowable loadings for COD are the sum of Subpart B, BAT (428.23) and Subpart D, BAT (428.43).
[2] Total allowable loadings for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), and Subpart D, BPT (428.42).

Stormwater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Based on the reported stormwater flow in the application	0.185	COD	130	195	200.7	301.0
		BOD_5	10	20	15.4	30.9
		TSS	30	100	46.3	154.4
		O&G	15	20	23.2	30.9

Utility Wastewater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Flow is based on the reported cooling tower blowdown flow in the application. Limits are based on 40 CFR Section 423.12 for low volume wastes (utility wastes) and the existing permit.	0.207	COD	130	195	224.6	336.8
		BOD_5	N/A	N/A		
		TSS	30	100	51.8	172.7
		O&G	15	20	25.9	34.5

	Parameter	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Final limits for Tier 2	COD [1]	N/A	N/A	**2,830**	**4,244**
	BOD_5 [2]	N/A	N/A	**478**	**724**
	TSS [2]	N/A	N/A	**849**	**1,457**
	O&G [2]	N/A	N/A	**235**	**344**

[1] Final Tier 2 limits for COD are the sum of Subpart B, BAT (428.23), Subpart D, BAT (428.43), Stormwater and Utility Wastewater.

[2] Final Tier 2 limits for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), Subpart D, BPT (428.42), Stormwater and Utility Wastewater.

BOD to CBOD conversion:
478 lbs/day * 83.33% = 398 lbs/day
724 lbs/day * 83.33% = 603 lbs/day

Tier 3 – Calculated Technology-based Effluent Limitations (BPT and BAT)

SUBPART B, BPT (428.22)	*1000 lbs. of crumb rubber/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	1,205.28	COD	8	12	9,642.2	14,463.4
	1,205.28	BOD_5	0.4	0.6	482.11	723.17
	1,205.28	TSS	0.65	0.98	783.43	1,181.17
	1,205.28	O&G	0.16	0.24	192.84	289.27
SUBPART B, BAT (428.23)	*1000 lbs. of crumb rubber/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	1,205.28	COD	2.08	3.12	2,506.98	4,241.20
	1,205.28	BOD_5	0.08	0.12	96.42	144.63
	1,205.28	TSS	0.16	0.24	192.84	289.27
	1,205.28	O&G	0.08	0.12	96.42	144.63
SUBPART D, BPT (428.42)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	213.12	COD	6.85	10.27	1,459.87	2,188.74
	213.12	BOD5	0.34	0.51	72.46	108.69
	213.12	TSS	0.55	0.82	117.22	174.76
	213.12	O&G	0.14	0.21	29.84	44.76
SUBPART D, BAT (428.43)	*1000 lbs. of latex/day*	*Parameter*	*Daily Avg ELG (lbs./1000 lbs. product)*	*Daily Max ELG (lbs./1000 lbs. product)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	213.12	COD	1.78	2.66	379.35	566.90
	213.12	BOD_5	0.07	0.11	14.92	23.44
	213.12	TSS	0.14	0.21	29.84	44.76
	213.12	O&G	0.07	0.11	14.92	23.44

TOTAL ALLOWABLE LOADINGS	*Parameter*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
	COD [1]	2,886	4,808
	BOD_5 [2]	554.57	831.86
	TSS [2]	900.65	1,356
	O&G [2]	222.68	334.03

[1] Total allowable loadings for COD are the sum of Subpart B, BAT (428.23) and Subpart D, BAT (428.43).

[2] Total allowable loadings for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), and Subpart D, BPT (428.42).

Stormwater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Based on the reported stormwater flow in the application	0.185	COD	130	195	200.7	301.0
		BOD_5	10	20	15.4	30.9
		TSS	30	100	46.3	154.4
		O&G	15	20	23.2	30.9

Utility Wastewater	Flow (MGD)	*Parameter*	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Flow is based on the reported cooling tower blowdown flow in the application. Limits are based on 40 CFR Section 423.12 for low volume wastes (utility wastes) and the existing permit.	0.207	COD	130	195	224.6	336.8
		BOD_5	N/A	N/A		
		TSS	30	100	51.8	172.7
		O&G	15	20	25.9	34.5

	Parameter	*Daily Avg Limit (mg/L)*	*Daily Max Limit (mg/L)*	*Daily Avg Limit (lbs./day)*	*Daily Max Limit (lbs./day)*
Final limits for Tier 3	COD [1]	N/A	N/A	**3,311**	**5,446**
	BOD_5 [2]	N/A	N/A	**570**	**863**
	TSS [2]	N/A	N/A	**999**	**1,683**
	O&G [2]	N/A	N/A	**272**	**399**

[1] Final Tier 3 limits for COD are the sum of Subpart B, BAT (428.23), Subpart D, BAT (428.43), Stormwater and Utility Wastewater.

[2] Final Tier 3 limits for BOD_5, TSS and O&G are the sum of Subpart B, BPT (428.22), Subpart D, BPT (428.42), Stormwater and Utility Wastewater.

Daily maximum limits for total chromium of 0.2 mg/L and phenols of 0.3 mg/L are based on PBJ and continued from the existing permit based on anti-backsliding.

Outfall 002
Daily maximum limits for total organic carbon of 75 mg/L and oil and grease of 15 mg/L are based on PBJ and continued from the existing permit based on anti-backsliding.

BOD to CBOD conversion:
570 lbs/day * 83.33% = 475 lbs/day
863 lbs/day * 83.33% = 719 lbs/day

Appendix B
Calculated Water Quality-Based Effluent Limits
TEXTOX MENU #6 - NARROW TIDAL RIVER

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Saltwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	G-3 Chickadee Purchaser, LLC
TPDES Permit No:	WQ0000520000
Outfall No:	001
Prepared by:	Thomas Starr
Date:	April 8, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Sims Bayou Tidal
Segment No.:	1007
TSS (mg/L):	8
Effluent Flow for Aquatic Life (MGD):	2.02
Critical Low Flow [7Q2] (cfs):	39.07
% Effluent for Chronic Aquatic Life (Mixing Zone):	8.00
% Effluent for Acute Aquatic Life (ZID):	30.00
Effluent Flow for Human Health (MGD):	1.85
Harmonic Mean Flow (cfs):	68.3
% Effluent for Human Health:	4.0

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

Estuarine Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Cadmium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (total)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (trivalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	4.85	-0.72	15840.73	0.888		1.80	30 TAC 307
Lead	6.06	-0.85	196053.01	0.389		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	5.86	-0.74	155493.92	0.446		1.00	Assumed
Zinc	5.36	-0.52	77695.02	0.617		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*SW Acute Criterion (µg/L)*	*SW Chronic Criterion*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	1.3	N/A	4.33	N/A	2.48	N/A	3.65	7.72
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	149	78	497	975	285	751	418	885
Cadmium	40.0	8.75	133	109	76.4	84.2	112	237
Carbaryl	613	N/A	2043	N/A	1171	N/A	1721	3641
Chlordane	0.09	0.004	0.300	0.0500	0.172	0.0385	0.0565	0.119
Chlorpyrifos	0.011	0.006	0.0367	0.0750	0.0210	0.0578	0.0308	0.0653
Chromium (trivalent)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (hexavalent)	1090	49.6	3633	620	2082	477	701	1484
Copper	24.3	6.48	91.3	91.3	52.3	70.3	76.8	162
Cyanide (free)	5.6	5.6	18.7	70.0	10.7	53.9	15.7	33.2
4,4'-DDT	0.13	0.001	0.433	0.0125	0.248	0.00963	0.0141	0.0299
Demeton	N/A	0.1	N/A	1.25	N/A	0.963	1.41	2.99
Diazinon	0.819	0.819	2.73	10.2	1.56	7.88	2.29	4.86
Dicofol [Kelthane]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.71	0.002	2.37	0.0250	1.36	0.0193	0.0282	0.0598
Diuron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I (*alpha*)	0.034	0.009	0.113	0.113	0.0649	0.0866	0.0954	0.201
Endosulfan II (*beta*)	0.034	0.009	0.113	0.113	0.0649	0.0866	0.0954	0.201
Endosulfan sulfate	0.034	0.009	0.113	0.113	0.0649	0.0866	0.0954	0.201
Endrin	0.037	0.002	0.123	0.0250	0.0707	0.0193	0.0282	0.0598
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.125	N/A	0.0963	0.141	0.299
Heptachlor	0.053	0.004	0.177	0.0500	0.101	0.0385	0.0565	0.119
Hexachlorocyclohexane (*gamma*) [Lindane]	0.16	N/A	0.533	N/A	0.306	N/A	0.449	0.950
Lead	133	5.3	1139	170	652	131	192	407
Malathion	N/A	0.01	N/A	0.125	N/A	0.0963	0.141	0.299
Mercury	2.1	1.1	7.00	13.8	4.01	10.6	5.89	12.4
Methoxychlor	N/A	0.03	N/A	0.375	N/A	0.289	0.424	0.898
Mirex	N/A	0.001	N/A	0.0125	N/A	0.00963	0.0141	0.0299
Nickel	118	13.1	393	164	225	126	185	392
Nonylphenol	7	1.7	23.3	21.3	13.4	16.4	19.6	41.5
Parathion (ethyl)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	15.1	9.6	50.3	120	28.8	92.4	42.3	89.6
Phenanthrene	7.7	4.6	25.7	57.5	14.7	44.3	21.6	45.7
Polychlorinated Biphenyls [PCBs]	10	0.03	33.3	0.375	19.1	0.289	0.424	0.898
Selenium	564	136	1880	1700	1077	1309	1583	3350
Silver	2	N/A	15.0	N/A	8.57	N/A	12.6	26.6
Toxaphene	0.21	0.0002	0.700	0.00250	0.401	0.00193	0.00282	0.00598
Tributyltin [TBT]	0.24	0.0074	0.800	0.0925	0.458	0.0712	0.104	0.221
2,4,5 Trichlorophenol	259	12	863	150	495	116	169	359
Zinc	92.7	84.2	501	1707	287	1314	422	892

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	115	2859	2659	3908	8269
Aldrin	1.147E-05	0.000285	0.000265	0.000389	0.000824
Anthracene	1317	32743	30451	44762	94701
Antimony	1071	26627	24763	36401	77012
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	14444	13433	19747	41777
Benzidine	0.107	2.66	2.47	3.63	7.69
Benzo(*a*)anthracene	0.025	0.622	0.578	0.849	1.79
Benzo(*a*)pyrene	0.0025	0.0622	0.0578	0.0849	0.179
Bis(chloromethyl)ether	0.2745	6.82	6.35	9.32	19.7
Bis(2-chloroethyl)ether	42.83	1065	990	1455	3079
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phth	7.55	188	175	256	542
Bromodichloromethane [Dichlorobromomethane	275	6837	6358	9346	19774
Bromoform [Tribromomethane]	1060	26353	24508	36027	76221
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	1144	1064	1563	3307
Chlordane	0.0025	0.0622	0.0578	0.0849	0.179
Chlorobenzene	2737	68046	63283	93025	196808
Chlorodibromomethane [Dibromochloromethane	183	4550	4231	6219	13158
Chloroform [Trichloromethane]	7697	191358	177963	261606	553466
Chromium (hexavalent)	502	12480	11607	17062	36097
Chrysene	2.52	62.7	58.3	85.6	181
Cresols [Methylphenols]	9301	231236	215050	316123	668804
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.0497	0.0462	0.0679	0.143
4,4'-DDE	0.00013	0.00323	0.00301	0.00441	0.00934
4,4'-DDT	0.0004	0.00994	0.00925	0.0135	0.0287
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	11759	10936	16076	34011
1,2-Dibromoethane [Ethylene Dibromide]	4.24	105	98.0	144	304
m -Dichlorobenzene [1,3-Dichlorobenzene]	595	14793	13757	20222	42784
o -Dichlorobenzene [1,2-Dichlorobenzene]	3299	82018	76277	112126	237220
p -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	55.7	51.8	76.1	161
1,2-Dichloroethane	364	9050	8416	12371	26174
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	1370213	1274298	1873218	3963067
Dichloromethane [Methylene Chloride]	13333	331478	308274	453162	958732
1,2-Dichloropropane	259	6439	5988	8802	18623
1,3-Dichloropropene [1,3-Dichloropropylene]	119	2959	2751	4044	8556
Dicofol [Kelthane]	0.30	7.46	6.94	10.1	21.5
Dieldrin	2.0E-05	0.000497	0.000462	0.000679	0.00143
2,4-Dimethylphenol	8436	209731	195050	286723	606605
Di-*n* -Butyl Phthalate	92.4	2297	2136	3140	6644
Dioxins/Furans [TCDD Equivalents]	7.97E-08	0.0000020	0.0000018	0.0000027	0.0000057
Endrin	0.02	0.497	0.462	0.679	1.43
Epichlorohydrin	2013	50046	46543	68417	144748
Ethylbenzene	1867	46416	43167	63455	134249
Ethylene Glycol	1.68E+07	417672119	388435071	570999554	1208033070
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.00249	0.00231	0.00339	0.00719
Heptachlor Epoxide	0.00029	0.00721	0.00671	0.00985	0.0208
Hexachlorobenzene	0.00068	0.0169	0.0157	0.0231	0.0488
Hexachlorobutadiene	0.22	5.47	5.09	7.47	15.8

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Hexachlorocyclohexane (*alpha*)	0.0084	0.209	0.194	0.285	0.604
Hexachlorocyclohexane (*beta*)	0.26	6.46	6.01	8.83	18.6
Hexachlorocyclohexane (*gamma*) [Lindane]	0.341	8.48	7.88	11.5	24.5
Hexachlorocyclopentadiene	11.6	288	268	394	834
Hexachloroethane	2.33	57.9	53.9	79.1	167
Hexachlorophene	2.90	72.1	67.1	98.5	208
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	397335	369522	543197	1149213
Lead	3.83	245	227	334	707
Mercury	0.0250	0.622	0.578	0.849	1.79
Methoxychlor	3.0	74.6	69.4	101	215
Methyl Ethyl Ketone	9.92E+05	24662544	22936166	33716164	71331476
Methyl *tert* -butyl ether [MTBE]	10482	260598	242356	356262	753726
Nickel	1140	28342	26358	38746	81973
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	46565	43306	63659	134681
N-Nitrosodiethylamine	2.1	52.2	48.6	71.3	151
N-Nitroso-di-*n* -Butylamine	4.2	104	97.1	142	302
Pentachlorobenzene	0.355	8.83	8.21	12.0	25.5
Pentachlorophenol	0.29	7.21	6.71	9.85	20.8
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.0159	0.0148	0.0217	0.0460
Pyridine	947	23544	21896	32186	68095
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	5.97	5.55	8.15	17.2
1,1,2,2-Tetrachloroethane	26.35	655	609	895	1894
Tetrachloroethylene [Tetrachloroethylene]	280	6961	6474	9516	20133
Thallium	0.23	5.72	5.32	7.81	16.5
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.273	0.254	0.373	0.790
2,4,5-TP [Silvex]	369	9174	8532	12541	26533
1,1,1-Trichloroethane	784354	19500167	18135155	26658677	56400331
1,1,2-Trichloroethane	166	4127	3838	5642	11936
Trichloroethylene [Trichloroethene]	71.9	1788	1662	2443	5170
2,4,5-Trichlorophenol	1867	46416	43167	63455	134249
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	410	381	560	1186

Aquatic Life *Parameter*	*70% of Daily Avg. (µg/L)*	*85% of Daily Avg. (µg/L)*
Aldrin	2.55	3.10
Aluminum	N/A	N/A
Arsenic	292	355
Cadmium	78.6	95.4
Carbaryl	1204	1462
Chlordane	0.0396	0.0481
Chlorpyrifos	0.0216	0.0262
Chromium (trivalent)	N/A	N/A
Chromium (hexavalent)	491	596
Copper	53.8	65.3
Cyanide (free)	11.0	13.3
4,4'-DDT	0.00990	0.0120
Demeton	0.990	1.20
Diazinon	1.60	1.95
Dicofol [Kelthane]	N/A	N/A
Dieldrin	0.0198	0.0240
Diuron	N/A	N/A
Endosulfan I (*alpha*)	0.0668	0.0811
Endosulfan II (*beta*)	0.0668	0.0811
Endosulfan sulfate	0.0668	0.0811
Endrin	0.0198	0.0240
Guthion [Azinphos Methyl]	0.0990	0.120
Heptachlor	0.0396	0.0481
Hexachlorocyclohexane (*gamma*) [Lindane]	0.314	0.381
Lead	134	163
Malathion	0.0990	0.120
Mercury	4.12	5.01
Methoxychlor	0.297	0.360
Mirex	0.00990	0.0120
Nickel	129	157
Nonylphenol	13.7	16.7
Parathion (ethyl)	N/A	N/A
Pentachlorophenol	29.6	36.0
Phenanthrene	15.1	18.3
Polychlorinated Biphenyls [PCBs]	0.297	0.360
Selenium	1108	1346
Silver	8.82	10.7
Toxaphene	0.00198	0.00240
Tributyltin [TBT]	0.0732	0.0889
2,4,5 Trichlorophenol	118	144
Zinc	295	358

Human Health *Parameter*	*70% of Daily Avg.* *(µg/L)*	*85% of Daily Avg.* *(µg/L)*
Acrylonitrile	2736	3322
Aldrin	0.000272	0.000331
Anthracene	31333	38047
Antimony	25480	30941
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	13822	16785
Benzidine	2.54	3.09
Benzo(*a*)anthracene	0.594	0.722
Benzo(*a*)pyrene	0.0594	0.0722
Bis(chloromethyl)ether	6.53	7.93
Bis(2-chloroethyl)ether	1018	1237
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phth	179	218
Bromodichloromethane [Dichlorobromomethane	6542	7944
Bromoform [Tribromomethane]	25219	30623
Cadmium	N/A	N/A
Carbon Tetrachloride	1094	1328
Chlordane	0.0594	0.0722
Chlorobenzene	65117	79071
Chlorodibromomethane [Dibromochloromethane	4353	5286
Chloroform [Trichloromethane]	183124	222365
Chromium (hexavalent)	11943	14502
Chrysene	59.9	72.8
Cresols [Methylphenols]	221286	268704
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0475	0.0577
4,4'-DDE	0.00309	0.00375
4,4'-DDT	0.00951	0.0115
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	11253	13664
1,2-Dibromoethane [Ethylene Dibromide]	100	122
m -Dichlorobenzene [1,3-Dichlorobenzene]	14156	17189
o -Dichlorobenzene [1,2-Dichlorobenzene]	78488	95307
p -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	53.2	64.7
1,2-Dichloroethane	8660	10515
1,1-Dichloroethylene [1,1-Dichloroethene]	1311252	1592235
Dichloromethane [Methylene Chloride]	317214	385188
1,2-Dichloropropane	6162	7482
1,3-Dichloropropene [1,3-Dichloropropylene]	2831	3437
Dicofol [Kelthane]	7.13	8.66
Dieldrin	0.000475	0.000577
2,4-Dimethylphenol	200706	243714
Di-*n* -Butyl Phthalate	2198	2669
Dioxins/Furans [TCDD Equivalents]	0.0000019	0.0000023
Endrin	0.475	0.577
Epichlorohydrin	47892	58155
Ethylbenzene	44419	53937
Ethylene Glycol	399699688	485349621
Fluoride	N/A	N/A
Heptachlor	0.00237	0.00288
Heptachlor Epoxide	0.00689	0.00837
Hexachlorobenzene	0.0161	0.0196
Hexachlorobutadiene	5.23	6.35

Human Health *Parameter*	*70% of Daily Avg.* *(µg/L)*	*85% of Daily Avg.* *(µg/L)*
Hexachlorocyclohexane (*alpha*)	0.199	0.242
Hexachlorocyclohexane (*beta*)	6.18	7.51
Hexachlorocyclohexane (*gamma*) [Lindane]	8.11	9.85
Hexachlorocyclopentadiene	275	335
Hexachloroethane	55.4	67.3
Hexachlorophene	68.9	83.7
4,4'-Isopropylidenediphenol [Bisphenol A]	380238	461717
Lead	234	284
Mercury	0.594	0.722
Methoxychlor	71.3	86.6
Methyl Ethyl Ketone	23601314	28658739
Methyl *tert* -butyl ether [MTBE]	249384	302823
Nickel	27122	32934
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	44561	54110
N-Nitrosodiethylamine	49.9	60.6
N-Nitroso-di-*n* -Butylamine	99.9	121
Pentachlorobenzene	8.44	10.2
Pentachlorophenol	6.89	8.37
Polychlorinated Biphenyls [PCBs]	0.0152	0.0184
Pyridine	22530	27358
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5.70	6.93
1,1,2,2-Tetrachloroethane	626	761
Tetrachloroethylene [Tetrachloroethylene]	6661	8089
Thallium	5.47	6.64
Toluene	N/A	N/A
Toxaphene	0.261	0.317
2,4,5-TP [Silvex]	8779	10660
1,1,1-Trichloroethane	18661074	22659875
1,1,2-Trichloroethane	3949	4795
Trichloroethylene [Trichloroethene]	1710	2077
2,4,5-Trichlorophenol	44419	53937
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	392	476

Water Quality-based Effluent Limitations Converted to Mass

Calculated Water Quality-based Effluent Limitations:

Total Copper:

Daily Average = 76.87 µg/L ~ 0.077 mg/L

Daily Maximum) = 162.64 µg/L ~ 0.163 mg/L

Total Zinc:

Daily Average = 422.05 µg/L ~ 0.422 mg/L

Daily Maximum = 892.91 µg/L ~ 0.893 mg/L

Free Cyanide:

Daily Average = 15.72 µg/L ~ 0.016 mg/L

Daily Maximum = 33.26 µg/L ~ 0.033 mg/L

Conversions to Mass: 2.9 MGD daily average flow was used in the calculation below. Conservative dilution assumptions were used (standard less than 10 MGD dilutions of 30% ZID, 8% aquatic life mixing zone, and 4% human health mixing zone) and using the 7Q2 and harmonic mean flows would have resulted in substantial additional dilution.

Total Copper:

Daily Average = 0.077 mg/L x 8.345 x 2.9 MGD

= **1.86 lbs./day**

Daily Maximum = 0.163 mg/L x 8.345 x 2.9 MGD

= **3.94 lbs./day**

Total Zinc:

Daily Average = 0.422 mg/L x 8.345 x 2.9 MGD

= **10.2 lbs./day**

Daily Maximum = 0.893 mg/L x 8.345 x 2.9 MGD

= **21.6 lbs./day**

Free Cyanide:

Daily Average = 0.016 mg/L x 8.345 x2.9 MGD

= **0.38 lbs./day**

Daily Maximum = 0.033 mg/L x 8.345 x2.9 MGD =

= **0.81 lbs./day**

Appendix C
pH Screening

Calculation of pH of a mixture in seawater.
Based on the CO2SYS program (Lewis and Wallace, 1998)
http://cdiac.esd.ornl.gov/oceans/co2rprt.html
Goodyear Tire & Rubber Co., 00520-000, Segment 1007

INPUT

1. MIXING ZONE BOUNDARY CHARACTERISTICS		
Dilution factor at mixing zone boundary	12.500	12.500
Depth at plume trapping level (m)	2.000	2.000
2. BACKGROUND RECEIVING WATER CHARACTERISTICS		
Temperature (deg C):	25.00	25.00
pH:	7.40	7.40
Salinity (psu):	3.30	3.30
Total alkalinity (meq/L)	2.50	2.50
3. EFFLUENT CHARACTERISTICS		
Temperature (deg C):	18.30	18.30
pH:	6.50	9.00
Salinity (psu)	1.00	1.00
Total alkalinity (meq/L):	0.40	2.11

4. CLICK THE 'calculate" BUTTON TO UPDATE OUTPUT RESULTS >>>

OUTPUT

CONDITIONS AT THE MIXING ZONE BOUNDARY		
Temperature (deg C):	24.46	24.46
Salinity (psu)	3.12	3.12
Density (kg/m^3)	999.54	999.54
Alkalinity (mmol/kg-SW):	2.33	2.47
Total Inorganic Carbon (mmol/kg-SW):	2.42	2.51
pH at Mixing Zone Boundary:	7.37	7.54

Notes:
To convert from units of mgCaCO3/L to meq/L divide by 50.044 mg/meq
PSU refers to the Practical Salinity Scale (PSS) & approximately equivalent to parts per thousand (ppt)

Appendix D
Comparison of Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/ assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	*Parameter*	*Technology-Based*				*Water Quality-Based*				*Existing Permit*			
		Daily Avg		*Daily Max*		*Daily Avg*		*Daily Max*		*Daily Avg*		*Daily Max*	
		mg/L	*lbs./day*	*mg/L*	*lbs./day*	*mg/L*	*lbs./day*	*mg/L*	*lbs./day*	*mg/L*	*lbs./day*	*mg/L*	*lbs./day*
001	Flow	2.9 MGD		4.5 MGD		N/A		N/A		**2.9 MGD**		**4.5 MGD**	
	Carbonaceous Biochemical [1] Oxygen Demand,5-day ($CBOD_5$)	N/A	334	N/A	**507**	N/A	324	N/A	648	N/A	**324**	**N/A**	648
	$CBOD_5$ [2]	N/A	398	N/A	603	N/A	324	N/A	648	-	**-**	**-**	-
	$CBOD_5$ [3]	N/A	475	N/A	719	N/A	324	N/A	648	-	**-**	**-**	-
	Ammonia, as Nitrogen	N/A	N/A	N/A	N/A		383	N/A	766	N/A	**383**	N/A	**766**
	Total Suspended Solids [1]	N/A	**724**	N/A	**1,269**	N/A	N/A	N/A		N/A	799	N/A	1,575
	Total Suspended Solids [2]	N/A	**849**	N/A	**1,457**	N/A	N/A	N/A		N/A	941	N/A	1,361
	Total Suspended Solids [3]	N/A	**999**	N/A	**1,683**	N/A	N/A	N/A		N/A	1,112	N/A	1,831
	Chemical Oxygen Demand [1]	N/A	**2,429**	N/A	**3,643**	N/A	N/A	N/A	N/A	N/A	2,657	N/A	3,988
	Chemical Oxygen Demand [2]	N/A	**2,830**	N/A	**4,244**	N/A	N/A	N/A	N/A	N/A	3,112	N/A	4,671
	Chemical Oxygen Demand [3]	N/A	**3,311**	N/A	**5,446**	N/A	N/A	N/A	N/A	N/A	3,659	N/A	5,490
	Oil and Grease [1]	N/A	204	N/A	297	N/A	N/A	N/A	N/A	N/A	**184**	N/A	**276**
	Oil and Grease [2]	N/A	**235**	N/A	**344**	N/A	N/A	N/A	N/A	N/A	254	N/A	374
	Oil and Grease [3]	N/A	**272**	N/A	**399**	N/A	N/A	N/A	N/A	N/A	296	N/A	437
	Chromium, total	N/A	N/A	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.2**	N/A
	Phenols	N/A	N/A	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.3**	N/A
	Copper, total	N/A	N/A	N/A	N/A	N/A	1.86	N/A	3.94	N/A	**0.91**	N/A	**1.92**
	Zinc, total	N/A	N/A	N/A	N/A	N/A	10.2	N/A	21.6	N/A	**8.03**	N/A	**16.99**
	Cyanide, total	N/A	N/A	N/A	N/A	N/A	0.38	N/A	0.81	N/A	**0.24**	N/A	**0.51**
	Temperature	N/A		N/A		Report ˚F		Report ˚F		**Report ˚F**		**Report ˚F**	
	pH (Standard Units)	6.0 minimum		9.0 maximum		N/A		N/A		**6.0 minimum**		**9.0 maximum**	
002	Flow	Report MGD		Report MGD		N/A		N/A		**Report MGD**		**Report MGD**	
	Total Organic Carbon	N/A	N/A	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**75**	N/A
	Oil and Grease	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15**	N/A
	Zinc, total	-		Report mg/L		N/A		N/A		**-**		**Report mg/L**	
	pH (Standard Units)	6.0 minimum		9.0 maximum		N/A		N/A		**6.0 minimum**		**9.0 maximum**	

[1] Effluent Limitations for these parameters are tiered based on the three year maximum reported production. These limitations are more stringent than the required water quality-based effluent limitations and/or the limitations in the existing permit.

[2] Effluent Limitation Tier 2: This effluent limitation becomes effective when the monthly average production is expected to equal or exceed 1,182,000 lbs./day but is expected to be less than 1,418,000 lbs./day. See Other Requirement No. 10.

[3] Effluent Limitation Tier 3: This effluent limitation becomes effective when the monthly average production is expected to equal or exceed 1,418,000 lbs./day. See Other Requirement No. 10.