

# Technical Package Cover Page

## This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Second notice (NAPD-Notice of Preliminary Decision)
  - English
  - Alternative Language (Spanish)
- 4. Application materials \*
- 5. Draft permit \*
- 6. Technical summary or fact sheet \*
- \* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.



# Portada de Paquete Técnico

### Este archivo contiene los siguientes documentos:

- 1. Resumen de la solicitud (en lenguaje sencillo)
  - Inglés
  - Idioma alternativo (español)
- 2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
  - Inglés
  - Idioma alternativo (español)
- 3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
  - Inglés
  - Idioma alternativo (español)
- 4. Materiales de la solicitud \*\*
- 5. Proyecto de permiso \*\*
- 6. Resumen técnico u hoja de datos \*\*
- \*\* NOTA: Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud, el proyecto de permiso, y los resumen técnico u hoja de datos están disponibles para revisión en la ubicación de consulta pública que se indica en el NAPD.

## Plan Language Summary Template (TCEQ Form 20972) Industrial Wastewater Permit Renewal Application for TPDES WQ0002656000 March 2024

#### Español Versión

#### Aplicación de Aguas Residuales Industriales

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.

BASF Corporation (CN600124895) opera la terminal del puerto BASF Freeport (RN101619690), una terminal de almacenamiento de amoníaco anhidro para carga/descarga mediante buque o barcaza en el puerto de Brazos. La instalación está ubicada en 1451 Navigation Blvd, en Freeport, Condado de Brazoria, Texas 77541. Esta solicitud es para la renovación del permiso TPDES (WQ0002656000) que cubre descargas intermitentes de aguas pluviales y fuentes permitidas no pluviales.

Las descargas de la instalación no están sujetas a las pautas federales de limitación de efluentes. No se generan aguas residuales de proceso en esta instalación y se espera que las aguas pluviales y las fuentes no pluviales permitidas contengan sólidos suspendidos totales (TSS), sulfato (SO4), cloruro (CI) y aluminio total (AI). Se incluyen contaminantes potenciales adicionales en el Informe técnico de aplicación de aguas residuales industriales, Hoja de trabajo 2.0. Las aguas descargadas que consisten en aguas pluviales, agua de prueba hidrostática, agua de protección contra incendios, condensado atmosférico y lavado de equipos se tratan reteniéndolas en un estanque de retención de aguas pluviales antes de la descarga.

## Plan Language Summary Template (TCEQ Form 20972) Industrial Wastewater Permit Renewal Application for TPDES WQ0002656000 March 2024

#### **English Version**

#### 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.

BASF Corporation (CN600124895) operates the BASF Freeport Harbor Terminal (RN101619690), an anhydrous ammonia storage terminal for loading/unloading via vessel or barge in Brazos Harbor. The facility is located at 1451 Navigation Blvd, in Freeport, Brazoria County, Texas 77541. This application is for renewal of the TPDES permit (WQ0002656000) covering intermittent discharges of stormwater and allowable non-stormwater sources.

Discharges from the facility are not subject to federal effluent limitation guidelines. No process wastewater is generated at this facility and the stormwater and allowable non-stormwater sources are expected to contain Total Suspended Solids (TSS), Sulfate (SO4), Chloride (CI), and Total Aluminum (AI). Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. Discharged waters consisting of stormwater, hydrostatic test water, fire protection water, atmospheric condensate, and equipment washdown are treated by retention in a stormwater holding pond prior to discharge.

## **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PERMIT NO. WQ0002656000

**APPLICATION.** BASF Corporation, 602 Copper Road, Freeport, Texas 77541, which owns an anhydrous ammonia storage terminal, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002656000 (EPA I.D. No. TX0095605) to authorize the discharge of utility wastewater and stormwater at an intermittent and flow-variable volume. The facility is located at 1451 Navigation Boulevard, in the city of Freeport, Brazoria County, Texas 77541. The discharge route is from the plant site to a drainage ditch, thence to a roadside ditch along Farm-to-Market Road 1495, thence to a roadside ditch along Levee Road, thence to Bryan Lake, thence to a tidal tributary, thence to the Intracoastal Waterway, thence to the Brazos River Tidal. TCEQ received this application on March 19, 2024. The permit application will be available for viewing and copying at Brazoria County Library – Freeport Branch, 410 North Brazosport Boulevard, Freeport, in Brazoria County, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.339166,28.935833&level=18

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

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

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

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

Further information may also be obtained from BASF Corporation at the address stated above or by calling Ms. Yasuko Dodd, P.E., Senior Environmental Specialist, at 979-415-6952.

Issuance Date: April 26, 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. WQ0002656000**

**SOLICITUD.** BASF Corporation, 602 Copper Road, Freeport, Texas 77541, que posee un terminal de almacenamiento de amoníaco anhidro, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0002656000 (EPA I.D. No. TX TX0095605) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales operativas y aguas pluviales en a un volumen intermitente y de flujo variable. La planta está ubicada 1451 Navigation Boulevard en el Condado de Freeport, Texas 77541. La ruta de descarga es desde el sitio de la planta hasta una zanja de drenaje, y de allí a una zanja al costado de la carretera a lo largo de Farmto-Market Road 1495, de allí a una zanja al borde de la carretera a lo largo de Levee Road, de allí a Bryan Lake, de allí a una marea afluente, de allí al Intracoastal Waterway, de allí a Brazos River Tidal. La TCEQ recibió esta solicitud el 19 de marzo de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca del condado de Brazoria -Sucursal de Freeport, 410 North Brazosport Boulevard, Freeport, en el condado de Brazoria, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.339166,28.935833&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 de la decisión del Director Ejecutivo 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 SIGUENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

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

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o 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 envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

## CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del BASF Corporation a la dirección indicada arriba o llamando a Yasuko Dodd, P.E., Especialista ambiental sénior, al 979-415-6952.

Fecha de emisión 26 de abril de 2024

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### RENEWAL

#### Permit No. WQ0002656000

**APPLICATION AND PRELIMINARY DECISION.** BASF Corporation, 602 Copper Road, Freeport, Texas 77541, which operates BASF Freeport Harbor Terminal, an anhydrous ammonia storage terminal, has applied to the Texas Commission on Environmental Quality (TCEQ) for renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002656000, which authorizes the discharge of stormwater, hydrostatic test water, fire protection water, atmospheric condensate from the refrigeration system, and washdown from the operation area on an intermittent and flow-variable basis via Outfall 001. The TCEQ received this application on March 19, 2024.

The facility is located at 1451 Navigation Boulevard, in the City of Freeport, Brazoria County, Texas 77541. 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=-95.339166,28.935833&level=18

The effluent is discharged to a drainage ditch, thence to a roadside ditch along Farm-to-Market Road 1495, thence to a roadside ditch along Levee Road, thence to Bryan Lake, thence to a tidal tributary, thence to the Intracoastal Waterway, thence to the Brazos River Tidal in Segment 1201 of the Brazos River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and high aquatic life use for the roadside ditches and Bryan Lake. The designated uses for Segment No. 1201 are primary contact recreation, public water supply, and high aquatic life use.

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 Brazoria County Library – Freeport Branch, 410 North Brazosport Boulevard, Freeport, in Brazoria County, 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

**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 <a href="https://www.tceq.texas.gov/goto/comment">https://www.tceq.texas.gov/goto/comment</a> 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 <u>https://www.tceq.texas.gov/goto/cid/</u>. Search the database using the permit number for this application, which is provided at the top of this notice.

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at <u>https://www.tceq.texas.gov/goto/comment</u>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address, and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, toll free, at 1-800-687-4040 or visit their website at 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 BASF Corporation at the address stated above or by calling Ms. Yasuko Dodd, Senior Environmental Specialist, at (979) 415 6952.

Issued: April 11, 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. WQ0002656000

**SOLICITUD Y DECISIÓN PRELIMINAR.** BASF Corporation, 602 Copper Road, Freeport, Texas 77541, que opera la Terminal Portuaria de Freeport de BASF, una terminal de almacenamiento de amoníaco anhidro, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación del Permiso del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) No. WQ0002656000. Este permiso autoriza la descarga de aguas pluviales, agua de prueba hidrostática, agua del sistema de protección contra incendios, condensado atmosférico del sistema de refrigeración y agua de lavado del área de operaciones, de manera intermitente y con caudal variable, a través del Punto de Descarga 001. La TCEQ recibió esta solicitud el 19 de marzo de 2024.

La planta está ubicada en 1451 Navigation Boulevard, en la ciudad de Freeport, condado de Brazoria, Texas 77541. El efluente se descarga en un canal de drenaje, luego en una zanja al borde del camino a lo largo de la carretera Farm-to-Market 1495, luego en una zanja al borde del camino a lo largo de Levee Road, luego en el Lago Bryan, después en un afluente mareal, luego en la Vía Navegable Intracostera, y finalmente en la sección mareal del Río Brazos en el Segmento 1201 de la Cuenca del Río Brazos. Los usos del cuerpo receptor de agua no clasificado son uso acuático mínimo para la zanja sin nombre y uso acuático elevado para las zanjas al borde del camino y el Lago Bryan. Los usos designados para el Segmento No. 1201 son recreación de contacto primario, suministro público de agua y uso acuático elevado.

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 Biblioteca del Condado de Brazoria – Sucursal de Freeport, 410 North Brazosport Boulevard, Freeport, en el condado de Brazoria, 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.

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=-95.339166,28.935833&level=18

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

**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 <u>https://www14.tceq.texas.gov/epic/eComment/</u> 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 <u>https://www14.tceq.texas.gov/epic/eComment/</u>, 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 www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del BASF Corporation a la dirección indicada arriba o llamando a Ms. Yasuko Dodd al (979) 415 6952.

## STATEMENT OF BASIS/TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

#### **DESCRIPTION OF APPLICATION**

Applicant:	BASF Corporation; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002656000 (EPA I.D. No. TX0095605)
Regulated activity:	Industrial wastewater permit
Type of application:	Renewal
Request:	Renewal without changes
Authority:	Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

#### 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, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

#### **REASON FOR PROJECT PROPOSED**

The applicant applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of its existing permit.

#### PROJECT DESCRIPTION AND LOCATION

The applicant currently operates BASF Freeport Harbor Terminal, an anhydrous ammonia storage terminal.

The facility is an anhydrous ammonia terminal that includes two refrigerated ammonia storage tanks, unloading and loading facilities for barges and ocean vessels and a pipeline distribution system. Discharge from the facility is dependent on rainfall. There are no production activities and no wastewater treatment plant located at this facility. The discharge consists of stormwater (includes stormwater associated with industrial activity and stormwater associated with construction activity), hydrostatic test water, fire protection water, atmospheric condensate from the refrigeration system, and washdown from the operation area.

The facility is located at 1451 Navigation Boulevard, in the City of Freeport in Brazoria County, Texas.

#### **Discharge Routes and Designated Uses**

The effluent is discharged to a drainage ditch, thence to a roadside ditch along Farm-to-Market Road 1495, thence to a roadside ditch along Levee Road, thence to Bryan Lake, thence to a tidal tributary, thence to the Intracoastal Waterway, thence to the Brazos River Tidal in Segment 1201 of the Brazos River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch, high aquatic life use for the roadside ditches, and high aquatic life use for Bryan Lake. The designated uses for Segment No. 1201 are primary contact recreation, public water supply, and high aquatic life use. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

#### **Endangered Species Review**

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion

on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. Though the piping plover, *Charadrius melodus* Ord, can occur Brazoria County, the county is north of Copano Bay and not a watershed of high priority per Appendix A of the 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. 1201 is not currently listed on the state's inventory of impaired and threatened waters, the 2022 CWA §303(d) list.

#### **Completed Total Maximum Daily Loads (TMDLs)**

There are no completed TMDLs for Segment No. 1201.

#### **Dissolved Oxygen**

Based on information provided in the permit application, the level of oxygen demanding constituents in the wastewater is low. Therefore, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

#### SUMMARY OF EFFLUENT DATA

The following is a quantitative description of the discharge described in the monthly effluent report data for the period September 2019 through December 2024. The "Avg of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "Max of Daily Max" 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).

Flow			
Outfall	Frequency	Avg of Daily Avg, MGD	Max of Daily Max, MGD
001	Intermittent	0.5378	2.55

#### **Effluent Characteristics**

Outfall	Pollutont	Avg of Daily Avg	Max of Daily Max
Outiali	ronutant	mg/L	mg/L
001	Total Organic Carbon (TOC)	-	32.6
	Ammonia-Nitrogen (NH3-N)	-	0.73
	Aluminum	5.152	36.4
	Dissolved Aluminum	1.192	20
	pH	7.16 SU (min)	8.03 SU (max)

No effluent limit violations were documented in the monthly effluent reports.

#### **DRAFT PERMIT CONDITIONS**

The draft permit authorizes the discharge of stormwater, hydrostatic test water, fire protection water, and atmosphereic condensate from the refrigeration system, and washdown from the operation area on an intermittent and flow-variable basis via Outfall 001.

sindent initiations are established in the drait perint as follows.					
Outfall	Pollutant	Daily Average	Daily Maximum		
Outian	Tonutant	mg/L	mg/L		
	Flow	Report, MGD	Report, MGD		
0.01	Total Organic Carbon	N/A	55		
001	Ammonia Nitrogen	N/A	5		
	pH	6.0 SU, minimum	9.0 SU, maximum		

Effluent limitations are established in the draft permit as follows:

#### **OUTFALL LOCATIONS**

Outfall	Latitude	Longitude
001	28.93418 N	95.340198 W

#### **Technology-Based Effluent Limitations**

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 discharge of stormwater, hydrostatic test water, fire protection water, and atmosphereic condensate from the refrigeration system, and washdown from the operation area on an intermittent and flow-variable basis via Outfall 001 is not subject to any federal effluent limitation guidelines.

The daily maximum effluent limitations for total organic carbon and ammonia nitrogen were originally carried forward from the original National Pollutant Discharge Elimination System and Texas Natural Resource Conservation Commission (TNRCC) permits, based on BPJ. These effluent limitations are still applicable and are carried forward based on EPA's anti-backsliding regulations in 40 CFR §122.44(l).

#### Water Quality-Based Effluent Limitations

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix A. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated May 8, 2024. The discharge from this facility is to fresh waters prior to flowing to the eventual tidal Segment No. 1201. For the purpose of developing water quality-based effluent limitations for protection of the initial fresh water receiving waters, surrogate Segment No. 1110 water chemistry data was used. Segment No. 1201 water chemistry data was used for protection of the eventual marine receiving waters. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

Data reported in the application was screened against the calculated water quality-based effluent limitations. None of the parameters analyzed for the application exceeded 70 or 85 percent of the calculated water quality-based effluent limitations; therefore, no additional monitoring and reporting requirements or effluent limitations were included in the draft permit based on the water quality screening.

#### **Total Aluminum Site-Assessment Study**

The permittee developed and submitted to the TCEQ Industrial Wastewater Permits Team the "BASF Freeport Harbor Ammonia Terminal Aluminum Site-Assessment Study." In the

site-assessment study, the permittee identified the source for the total aluminum present in the effluent discharged from Freeport Harbor Ammonia Terminal via Outfall 001. The study indicated that aluminum in effluent from Outfall 001 is primarily particulate and therefore not bioavailable to aquatic life. The permittee demonstrated that the discharge from Freeport Harbor Ammonia Terminal via Outfall 001 is not the source of aluminum in the stormwater and that the aluminum in the stormwater is primarily particulate. Therefore, the requirement for monitoring aluminum (Other Requirement No. 1) is removed from the current permit.

#### Total Dissolved Solids (TDS), Chloride, and Sulfate Screening

Segment No. 1201, which receives the discharge from this facility, does not have numeric TDS, chloride, or sulfate criteria in 30 TAC Chapter 307; therefore, no screening was performed for TDS, chloride, or sulfate in the effluent.

#### pH Screening

The existing permit includes pH limits of 6.0 - 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 - 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

#### Whole Effluent Toxicity Testing (Biomonitoring)

Biomonitoring requirements are not included in the draft permit at Outfall 001. The existing permit did not establish biomonitoring requirements and discharges authorized by this permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

#### SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

The following additional changes have been made to the draft permit.

- 1. Pages 3-13 were updated (May 2021 version).
- 2. Other Requirements No. 1 (The Total Aluminum Site-Assessment Plan and resulting required study) from the existing permit was removed. See discussion above.
- 3. Other Requirement No. 3 and No. 8 from the current permit have been revised.
- 4. Other Requirements No. 5 from the current permit was removed because it's perceived as not an enforceable provision.

#### **BASIS FOR DRAFT PERMIT**

The following items were considered in developing the draft permit:

- 1. Application received on March 19, 2024.
- 2. Existing permits: TPDES Permit No. WQ0002656000 issued on September 17, 2019.
- 3. TCEQ Rules.
- 4. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
- 5. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
- 6. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.

- 7. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
- 8. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
- 9. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
- 10. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
- 11. Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
- 12. EPA Effluent Guidelines: N/A.
- 13. Consistency with the Coastal Management Plan: 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.
- 14. 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).
- 15. 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). Aluminum Study: Technical Memorandum No. 19-131.01, prepared by Nutter & Associates, prepared for BASF Corporation - Freeport, Texas Facility, Subject: Results of Aluminum Site-Assessment Study Conducted at BASF Freeport Ammonia Terminal.

#### **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 to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. 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 hearing.

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 Seif Deiab at (512) 239-4622.

<u>Seif Deiab</u>

Seif Deiab

January 21, 2025

Date

#### Appendix A Calculated Water Quality-Based Effluent Limits

#### TEXTOX MENU #10 - INTERMITTENT FRESHWATER STREAM WITHIN 3 MILES OF A BAY OR WIDE 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 Freshwater and 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:	BASF Corporation
TPDES Permit No:	WQ0002656000
Outfall No:	001
Prepared by:	Seif Deiab
Date:	January 7, 2025
DISCHARGE INFORMATION	
Intermittent Receiving Waterbody:	Unnamed ditch
Segment No. for Freshwater Ambient Data:	1110
TSS (mg/L) (Intermittent):	16
pH (Standard Units) (Intermittent):	7.4
Hardness (mg/L as CaCO₃) (Intermittent):	143
Chloride (mg/L) (Intermittent):	75
Effluent Flow for Aquatic Life (MGD):	1.06
% Effluent for Acute Aquatic Life (Intermittent):	100
Saltwater Receiving Waterbody:	Brazos River Tidal
Segment No.:	1201
TSS (mg/L) (Bay/Tidal River):	10
% Effluent for Chronic Aquatic Life (Bay/Tidal	
River):	100
% Effluent for Acute Aquatic Life (Bay/Tidal River):	100
Oyster Waters?	no
Effluent Flow for Human Health (MGD):	0.409
% Effluent for Human Health (Bay/Tidal River):	75

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

Stream/River 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	5.68	-0.73	63240.08	0.497		1.00	Assumed
Cadmium	6.60	-1.13	173517.95	0.265		1.00	Assumed
Chromium (total)	6.52	-0.93	251286.07	0.199		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	251286.07	0.199		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	134570.92	0.317		1.00	Assumed
Lead	6.45	-0.80	306693.11	0.169		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	100844.36	0.383		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	137961.03	0.312		1.00	Assumed
Zinc	6.10	-0.70	180765.69	0.257		1.00	Assumed

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	13489.63	0.881		1.00	Assumed
Lead	6.06	-0.85	162181.01	0.381		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	131825.67	0.431		1.00	Assumed
Zinc	5.36	-0.52	69183.10	0.591		1.00	Assumed

#### AQUATIC LIFE

#### CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

	FW	SW	SW								
	Acute	Acute	Chronic	FW	SW		FW	SW	SW	Daily	Daily
0	Criterion	Criterion	Criterion	WLAa	WLAa	SW WLAc	LTAa	LTAa	LTAC	Avg.	Max.
		(µg/L)	(µg/L)	<u>(μg/L)</u>	<u>(μg/L)</u>	(µg/L)	(µg/L)	<u>(μg/L)</u>	(µg/L)	<u>(μg/L)</u>	<u>(μg/L)</u>
Alumin	3.0	1.5	N/A	3.0	1.30	N/A	1.72	0.42	N/A	0.01	1.29
Aluminum	991	N/A	N/A	991	N/A	N/A	202	N/A	N/A	835	1/66
Arsenic	340	149	78	684	149	/8	392	48	48	70	148
	12.1	40.0	8.75	45.9	40	9	26.3	12.8	5.3	7.8	16.6
Carbaryl	2.0	613	N/A	2.0	613.00	N/A	1.15	196.16	N/A	1.68	3.56
Chlordane	2.4	0.09	0.004	2.4	0.090	0.004	1.38	0.029	0.002	0.004	0.008
Chlorpyritos	0.083	0.011	0.006	0.083	0.011	0.006	0.048	0.004	0.004	0.005	0.011
Chromium (trivalent)	764	N/A	N/A	3834	N/A	N/A	2197	N/A	N/A	3230	6833
Chromium (hexavalent)	15.7	1090	49.6	15.7	1090	50	9.00	349	30	13.2	28.0
Copper	19.9	13.5	3.6	62.7	15.3	4.1	35.9	4.9	2.5	3.7	7.8
Copper (oyster waters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide (free)	45.8	5.6	5.6	45.8	5.6	5.6	26.2	1.79	3.4	2.63	5.6
4,4'-DDT	1.1	0.13	0.001	1.1	0.130	0.001	0.630	0.042	0.0006	0.001	0.002
Demeton	N/A	N/A	0.1	N/A	N/A	0.10	N/A	N/A	0.061	0.09	0.19
Diazinon	0.17	0.819	0.819	0.17	0.82	0.8	0.097	0.262	0.50	0.143	0.303
Dicofol [Kelthane]	59.3	N/A	N/A	59.3	N/A	N/A	34.0	N/A	N/A	49.9	106
Dieldrin	0.24	0.71	0.002	0.24	0.71	0.002	0.138	0.227	0.001	0.002	0.004
Diuron	210	N/A	N/A	210	N/A	N/A	120.330	N/A	N/A	176.885	374.226
Endosulfan I ( <i>alpha</i> )	0.22	0.034	0.009	0.22	0.034	0.009	0.126	0.011	0.005	0.008	0.017
Endosulfan II ( <i>beta</i> )	0.22	0.034	0.009	0.22	0.034	0.009	0.126	0.011	0.005	0.008	0.017
Endosulfan sulfate	0.22	0.034	0.009	0.22	0.034	0.009	0.126	0.011	0.005	0.008	0.017
Endrin	0.086	0.037	0.002	0.086	0.037	0.002	0.049	0.012	0.001	0.002	0.004
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.010	N/A	N/A	0.006	0.009	0.019
Heptachlor	0.52	0.053	0.004	0.52	0.053	0.004	0.298	0.017	0.002	0.004	0.008
Hexachlorocyclohexane (gamma)											
[Lindane]	1.126	0.16	N/A	1.126	0.160	N/A	0.645	0.051	N/A	0.075	0.159
Lead	95	133	5.3	562	349	14	322	112	8	12	26
Malathion	N/A	N/A	0.01	N/A	N/A	0.010	N/A	N/A	0.006	0.009	0.019
Mercury	2.4	2.1	1.1	2.4	2.10	1.1	1.38	0.67	0.67	0.99	2.09

Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.030	N/A	N/A	0.018	0.027	0.057
Mirex	N/A	N/A	0.001	N/A	N/A	0.001	N/A	N/A	0.0006	0.001	0.002
Nickel	634	118	13.1	1656	118	13	949	38	8.0	12	25
Nonylphenol	28	7	1.7	28	7.0	1.7	16.0	2.24	1.0	1.5	3.2
Parathion (ethyl)	0.065	N/A	N/A	0.065	N/A	N/A	0.037	N/A	N/A	0.055	0.116
Pentachlorophenol	13.0	15.1	9.6	13.0	15.1	10	7.5	4.8	5.9	7.1	15.0
Phenanthrene	30	7.7	4.6	30	7.7	4.6	17.2	2.46	2.8	3.6	7.7
Polychlorinated Biphenyls [PCBs]	2.0	10	0.03	2.0	10.0	0.030	1.15	3.2	0.018	0.027	0.057
Selenium	20	564	136	20	564	136	11.5	180	83	16.8	35.6
Silver	0.8	2	N/A	16.28	4.6	N/A	9.33	1.48	N/A	2.18	4.6
Toxaphene	0.78	0.21	0.0002	0.78	0.210	0.0002	0.447	0.067	0.0001	0.0002	0.0004
Tributyltin [TBT]	0.13	0.24	0.0074	0.13	0.240	0.007	0.074	0.077	0.005	0.007	0.014
2,4,5 Trichlorophenol	136	259	12	136	259	12	77.9	83	7.3	11	23
Zinc	159	92.7	84.2	618	157	142	354	50	87	74	156

#### HUMAN HEALTH

#### CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

	Fish Only				Daily
Deventor	Criterion	WLAh	LTAh	Daily Avg.	Max.
	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)
Acryionitrile	115	153	143	210	443
Addrin	1.14/E-05	1.53E-05	1.42E-05	2.09E-05	4.42E-05
Anthracene	1317	1/56	1633	2401	5079
Antimony	1071	1428	1328	1952	4130
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	775	720	1059	2241
Benzidine	0.107	0.14	0.13	0.20	0.41
Benzo(a)anthracene	0.025	0.033	0.031	0.046	0.10
Benzo( <i>a</i> )pyrene	0.0025	0.003	0.003	0.005	0.010
Bis(chloromethyl)ether	0.2745	0.37	0.34	0.50	1.1
Bis(2-chloroethyl)ether	42.83	57	53	78	165
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)					
phthalate]	7.55	10	9	14	29
Bromodichloromethane [Dichlorobromomethane]	275	367	341	501	1061
Bromoform [Tribromomethane]	1060	1413	1314	1932	4088
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	61	57	84	177
Chlordane	0.0025	0.003	0.003	0.005	0.010
Chlorobenzene	2737	3649	3394	4989	10555
Chlorodibromomethane [Dibromochloromethane]	183	244	227	334	706
Chloroform [Trichloromethane]	7697	10263	9544	14030	29683
Chromium (hexavalent)	502	669	622	915	1936
Chrysene	2.52	3.4	3.1	4.6	10
Cresols [Methylphenols]	9301	12401	11533	16954	35868
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.003	0.002	0.004	0.008
4,4'-DDE	0.00013	0.0002	0.0002	0.0002	0.0005
4,4'-DDT	0.0004	0.001	0.0005	0.001	0.002
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	631	587	862	1824

1,2-Dibromoethane [Ethylene Dibromide]	4.24	6	5.3	8	16
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	595	793	738	1085	2295
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	4399	4091	6013	12722
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	3.0	2.8	4.1	9
1,2-Dichloroethane	364	485	451	663	1404
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	73485	68341	100462	212542
Dichloromethane [Methylene Chloride]	13333	17777	16533	24303	51417
1.2-Dichloropropane	259	345	321	472	999
1.3-Dichloropropene [1.3-Dichloropropylene]	119	159	148	217	459
Dicofol [Kelthane]	0.30	0.40	0.37	0.5	1.2
Dieldrin	2.0E-05	2.67E-05	2.48E-05	3.65E-05	7.71E-05
2.4-Dimethylphenol	8436	11248	10461	15377	32533
Di- <i>n</i> -Butyl Phthalate	92.4	123	115	168	356
Dioxins/Furans [TCDD Equivalents]	7.97E-08	1.06E-07	9.88E-08	1.45E-07	3.07E-07
Endrin	0.02	0.027	0.025	0.036	0.08
Epichlorohydrin	2013	2684	2496	3669	7763
Ethylbenzene	1867	2001	2315	3403	7200
Ethylene Glycol	1.68F+07	2.24F+07	2.08F+07	3.06F+07	6.48F+07
Eluoride	N/A	N/A	N/A	N/A	N/A
Hentachlor	0.0001	0.0001	0.0001	0.0002	0.0004
Heptachlor Epoxide	0.00029	0.0004	0.0004	0.001	0.001
Hexachlorobenzene	0.00068	0.001	0.001	0.001	0.003
Hexachlorobutadiene	0.22	0.001	0.001	0.001	0.005
Hexachlorocyclobexane (alpha)	0.0084	0.011	0.010	0.015	0.032
Hexachlorocyclohexane ( <i>beta</i> )	0.26	0.35	0.010	0.013	1.0
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.341	0.55	0.32	0.17	13
Hexachlorocyclonentadiene	11.6	15	14	21	45
Hexachloroethane	2 33	31	29	4.2	Q
Hexachlorophene	2.55	3.1	3.6	5.3	11
4 4'-Isopropylidenedinhenol [Bisphenol A]	15982	21309	19818	29132	61633
	3 83	13	13010	18	30
Mercury	0.025	0.033	0.031	0.046	0.10
Methoxychlor	3.0	0.055	0.031	5	12
Methyl Ethyl Ketone	9 92F±05	1 32F±06	1 23E±06	1 81F±06	3 83F±06
Methyl tert-butyl ether [MTBE]	10/82	13076	12008	10107	10/23
	11/0	1520	1/1/	2078	40425
Nitrata Nitragan (as Total Nitragan)	N/A	1520 N/A	N/A	2078 N/A	4330 N/A
Nitrobonzono	1972	2/07	2222	2/11/	7772
N.Nitrosodiethylamine	2 1	2457	2525	3.8	
N Nitroso di a Butylamino	2.1	2.0	5.2	3.0	16
Pontachlorohonzono	4.2	0.47	0.44	0.6	1.4
Pentachlorophonol	0.333	0.47	0.44	0.0	1.4
Polychlorinated Binhonyls [PCBs]	6.45-04	0.00	0.001	0.00	0.002
	0.4E-04	0.001	0.001	0.001	2652
Solonium	047	1767	1174	1776	
Selelliulli	947 N/A	1263	1174	1726	305Z
1 2 4 E Tatrachlarahanzana	947 N/A	1263 N/A	1174 N/A	1726 N/A	N/A
1,2,4,5-Tetrachlorobenzene	947 N/A 0.24	1263 N/A 0.32	1174 N/A 0.30	1726 N/A 0.44	N/A 0.9
1,2,4,5-Tetrachlorobenzene 1,1,2,2-Tetrachloroethane	947 N/A 0.24 26.35	1263 N/A 0.32 35	1174 N/A 0.30 33	1726 N/A 0.44 48	N/A 0.9 102
1,2,4,5-Tetrachlorobenzene         1,1,2,2-Tetrachloroethane         Tetrachloroethylene [Tetrachloroethylene]	947 N/A 0.24 26.35 280	1263 N/A 0.32 35 373	1174 N/A 0.30 33 347	1726 N/A 0.44 48 510	N/A 0.9 102 1080
1,2,4,5-Tetrachlorobenzene         1,1,2,2-Tetrachloroethane         Tetrachloroethylene [Tetrachloroethylene]         Thallium         Taluana	947 N/A 0.24 26.35 280 0.23	1263 N/A 0.32 35 373 0.31	1174 N/A 0.30 33 347 0.29	1726 N/A 0.44 48 510 0.42	N/A 0.9 102 1080 0.9
1,2,4,5-Tetrachlorobenzene 1,1,2,2-Tetrachloroethane Tetrachloroethylene [Tetrachloroethylene] Thallium Toluene Tougeheee	947 N/A 0.24 26.35 280 0.23 N/A	1263 N/A 0.32 35 373 0.31 N/A	1174 N/A 0.30 33 347 0.29 N/A	1726 N/A 0.44 48 510 0.42 N/A	N/A 0.9 102 1080 0.9 N/A
1,2,4,5-Tetrachlorobenzene         1,1,2,2-Tetrachloroethane         Tetrachloroethylene [Tetrachloroethylene]         Thallium         Toluene         Toxaphene         2,4,5,TP [Cit = 1]	947 N/A 0.24 26.35 280 0.23 N/A 0.011	1263 N/A 0.32 35 373 0.31 N/A 0.015	1174 N/A 0.30 33 347 0.29 N/A 0.014	1726 N/A 0.44 48 510 0.42 N/A 0.020	N/A 0.9 102 1080 0.9 N/A 0.042
1,2,4,5-Tetrachlorobenzene 1,1,2,2-Tetrachloroethane Tetrachloroethylene [Tetrachloroethylene] Thallium Toluene Toxaphene 2,4,5-TP [Silvex] 4.4.4 Tricklesserberge	947 N/A 0.24 26.35 280 0.23 N/A 0.011 369	1263 N/A 0.32 35 373 0.31 N/A 0.015 492	1174 N/A 0.30 33 347 0.29 N/A 0.014 458	1726 N/A 0.44 48 510 0.42 N/A 0.020 673	N/A 0.9 102 1080 0.9 N/A 0.042 1423
1,2,4,5-Tetrachlorobenzene         1,1,2,2-Tetrachloroethane         Tetrachloroethylene [Tetrachloroethylene]         Thallium         Toluene         Toxaphene         2,4,5-TP [Silvex]         1,1,1-Trichloroethane	947 N/A 0.24 26.35 280 0.23 N/A 0.011 369 784354	1263 N/A 0.32 35 373 0.31 N/A 0.015 492 1045805	1174 N/A 0.30 33 347 0.29 N/A 0.014 458 972599	1726 N/A 0.44 48 510 0.42 N/A 0.020 673 1429720	3652           N/A           0.9           102           1080           0.9           N/A           0.93           N/A           3024783

1. the "Report" requirements were self-expiring and not continued in the draft permit

Trichloroethylene [Trichloroethene]	71.9	96	89	131	277
2,4,5-Trichlorophenol	1867	2489	2315	3403	7200
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	22	20	30	64

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

Aquatic Lifa	70% of Daily	85% of Daily
Aquatic Life	Avy.	Avg.
Aldrin	(µy/L) 0.42	0.52
Aluminum	E 24	710
Arconic	284	710
Cadmium	49	59
Cathand	1.10	1.42
CalDalyi	1.18	1.43
Chlorowites	0.003	0.003
Children (triangle at)	0.004	0.004
Chromium (trivalent)	2201	2745
Chromium (nexavalent)	9.26	11.2
Copper	2.0	3.1
Copper (oyster waters)	N/A	N/A
	1.84	2.24
4,4 - DDI	0.0006	0.0008
Demeton	0.063	0.076
Diazinon	0.100	0.122
	35.0	42.5
Dieldrin	0.001	0.002
Diuron	124	150
Endosultan I (alpha)	0.006	0.007
Endosulfan II (beta)	0.006	0.007
Endosultan sultate	0.006	0.007
Endrin	0.001	0.002
Guthion [Azinphos Methyl]	0.006	0.008
Heptachlor	0.003	0.003
Hexachlorocyclohexane (gamma) [Lindane]	0.053	0.064
Lead	9	11
Malathion	0.006	0.008
Mercury	0.69	0.84
Methoxychlor	0.019	0.023
Mirex	0.0006	0.0008
Nickel	8	10
Nonylphenol	1.07	1.30
Parathion (ethyl)	0.038	0.047
Pentachlorophenol	5.0	6.0
Phenanthrene	2.54	3.1
Polychlorinated Biphenyls [PCBs]	0.019	0.023
Selenium	11.8	14.3
Silver	1.53	1.85
Toxaphene	0.0001	0.0002
Tributyltin [TBT]	0.005	0.006
2,4,5 Trichlorophenol	7.5	9.1
Zinc	52	63
	700/ -5	85% of
Human Health	70% οτ Daily Δνσ	Δνσ
Human Health	Daily Avg.	Avg.

1. the "Report" requirements were self-expiring and not continued in the draft permit

Parameter	(µg/L)	(µg/L)
Acrylonitrile	147	178
Aldrin	1.46E-05	1.78E-05
Anthracene	1680	2041
Antimony	1367	1659
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	741	900
Benzidine	0.14	0.17
Benzo(a)anthracene	0.032	0.039
Benzo(a)pyrene	0.003	0.004
Bis(chloromethyl)ether	0.35	0.43
Bis(2-chloroethyl)ether	55	66
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)		
phthalate]	10	12
Bromodichloromethane [Dichlorobromomethane]	351	426
Bromoform [Tribromomethane]	1353	1642
Cadmium	N/A	N/A
Carbon Tetrachloride	59	71
Chlordane	0.003	0.004
Chlorobenzene	3492	4241
Chlorodibromomethane [Dibromochloromethane]	234	284
Chloroform [Trichloromethane]	9821	11926
Chromium (bexavalent)	641	778
Chrysono	2.2	20
Crosols [Mothylphonols]	11969	14/11
	11000 N/A	14411 N/A
	0.002	0.002
	0.003	0.003
	0.0002	0.0002
	0.0005	0.0006
	N/A	N/A
Danitol [Fenpropathrin]	604	/33
1,2-Dibromoethane [Ethylene Dibromide]	5	/
m-Dichlorobenzene [1,3-Dichlorobenzene]	759	922
o-Dichlorobenzene [1,2-Dichlorobenzene]	4209	5111
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.9	3.5
1,2-Dichloroethane	464	564
1,1-Dichloroethylene [1,1-Dichloroethene]	70323	85393
Dichloromethane [Methylene Chloride]	17012	20658
1,2-Dichloropropane	330	401
1,3-Dichloropropene [1,3-Dichloropropylene]	152	184
Dicofol [Kelthane]	0.38	0.46
Dieldrin	2.55E-05	3.10E-05
2,4-Dimethylphenol	10764	13071
Di-n-Butyl Phthalate	118	143
Dioxins/Furans [TCDD Equivalents]	1.02E-07	1.23E-07
Endrin	0.026	0.031
Epichlorohydrin	2569	3119
Ethylbenzene	2382	2893
Ethylene Glycol	2.14E+07	2.60E+07
Fluoride	N/A	N/A
Heptachlor	0.0001	0.0002
Heptachlor Epoxide	0.0004	0.0004
Hexachlorobenzene	0 001	0 001
Hexachlorobutadiene	0.001	0.001
Hexachlorocyclohexane (alpha)	0.20	0.34
nexaciliorocyclonexalle (dipila)	0.011	0.013

1. the "Report" requirements were self-expiring and not continued in the draft permit

Hexachlorocyclohexane (beta)	0.33	0.40
Hexachlorocyclohexane (gamma) [Lindane]	0.44	0.53
Hexachlorocyclopentadiene	15	18
Hexachloroethane	3.0	3.6
Hexachlorophene	3.7	4.5
4,4'-Isopropylidenediphenol [Bisphenol A]	20392	24762
Lead	13	16
Mercury	0.032	0.039
Methoxychlor	3.8	4.6
Methyl Ethyl Ketone	1.27E+06	1.54E+06
Methyl tert-butyl ether [MTBE]	13375	16241
Nickel	1455	1766
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2390	2902
N-Nitrosodiethylamine	2.7	3.3
N-Nitroso-di-n-Butylamine	5	7
Pentachlorobenzene	0.45	0.6
Pentachlorophenol	0.37	0.45
Polychlorinated Biphenyls [PCBs]	0.001	0.001
Pyridine	1208	1467
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.31	0.37
1,1,2,2-Tetrachloroethane	34	41
Tetrachloroethylene [Tetrachloroethylene]	357	434
Thallium	0.29	0.36
Toluene	N/A	N/A
Toxaphene	0.014	0.017
2,4,5-TP [Silvex]	471	572
1,1,1-Trichloroethane	1.00E+06	1.22E+06
1,1,2-Trichloroethane	212	257
Trichloroethylene [Trichloroethene]	92	111
2,4,5-Trichlorophenol	2382	2893
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	21	26

#### Appendix B 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.

		Technology-Based		Water Quality-Based		Existing Permit		
Outfall	Pollutant	Daily Avg	Daily Max	Daily Avg	Daily Max	Daily Avg	Daily Max	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
001	Flow	Report	Report	Report	Report	Report	Report	
	Total Organic Carbon	55	55	-	-	55	55	
	Ammonia Nitrogen	5	5	-	-	5	5	
	рН	6.0 SU	9.0 SU	-	-		6.0 SU	9.0 SU
		(minimum)	(maximum)			-	(minimum)	(maximum)



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 TPDES PERMIT NO. WQ0002656000 [For TCEQ office use only -EPA I.D. No. TX0095605]

This renewal replaces TPDES Permit No. WQ0002656000, issued on September 17, 2019.

**BASF** Corporation

whose mailing address is

602 Copper Road Freeport, Texas 77541

is authorized to treat and discharge wastes from BASF Freeport Harbor Terminal, an anhydrous ammonia storage terminal, (SIC 5169)

located at 1451 Navigation Boulevard, in the City of Freeport, Brazoria County, Texas 77541

to a drainage ditch, thence to a roadside ditch along Farm-to-Market Road 1495, thence to a roadside ditch along Levee Road, thence to Bryan Lake, thence to a tidal tributary, thence to the Intracoastal Waterway, thence to the Brazos River Tidal, in Segment No. 1201 of the Brazos River Basin

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

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

ISSUED DATE:

For the Commission

#### EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Estimate

Grab

Grab

Minimum Self-Monitoring Requirements

Report Daily Average and Daily Maximum Measurement Frequency Sample Type

 $1/dav^2$ 

1/week<sup>2,3</sup>

 $1/\text{week}^{2,3}$ 

During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is 1. authorized to discharge stormwater<sup>1</sup>, hydrostatic test water, fire protection water, atmospheric condensate from the refrigeration system, and washdown from the operation area subject to the following effluent limitations:

**Discharge Limitations Effluent Characteristics** Daily Average **Daily Maximum** Single Grab mg/L mg/L mg/L Report, MGD

Report, MGD

N/A

N/A

Volume: Intermittent and flow-variable.

1	May include stormwater associated with industrial activity and stormwater associated with construction activities. See Other
	Requirements Nos. 3 and 8.

When discharging. 2

**Total Organic Carbon** 

Ammonia Nitrogen

Flow

Grab samples shall be obtained within the first hour after discharge begins and once per week thereafter if discharge is continuous. 3

55

5

N/A

55

5

- The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored  $1/\text{week}^{2,3}$  by grab sample. 2.
- There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil. 3.
- Effluent monitoring samples must be taken at the following location: Outfall 001, at the discharge of the sump pump. 4.

Page 2 of TPDES Permit No. WQ0002656000

**BASF** Corporation

#### **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 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 system available through 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.
  - 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:

- That any activity has occurred or will occur that would result in the discharge, on a routine or a. 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.

#### **BASF** Corporation

- 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  $\mu$ g/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 TCEO.
- 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;
  - any substantial change in the volume or character of pollutants being introduced into that b. 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.
  - The permittee shall furnish to the Executive Director, upon request and within a reasonable c. 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 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**

- 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 1. 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; andvi. 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. 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): None.
- 2. 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.
- 3. In addition to stormwater runoff at Outfall 001, the permittee may discharge stormwater runoff associated with construction activities. Discharge of stormwater from mobile concrete batch plant operations is not authorized under this permit. See Other Requirement No. 8 for additional conditions applied to construction stormwater discharges.
- 4. 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 determined that the action is consistent with the applicable CMP goals and policies.
- 5. Storage of materials other than anhydrous ammonia (or other nitrogen-related materials) at the terminal shall be reported to the TCEQ Wastewater Permitting Section (MC 148) and Region 12 Office.

#### 6. 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. This subsection is intentionally left blank.
- 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 <u>process wastewater</u> as defined in 40 CFR §122.2. The executive director will review ponds that will contain only <u>non-process wastewater</u> 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). The permittee must submit all information about the proposed pond contents that is reasonably necessary for the executive director to decide. 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.

### TPDES Permit No. WQ0002656000

A wastewater pond that <u>only contains domestic wastewater</u> 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) <u>Soil liner</u>: 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 × 10<sup>-7</sup> ( $\leq$  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) <u>Synthetic membrane</u>: 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) <u>Alternate liner</u>: The permittee shall submit plans signed and sealed by a Texas-licensed professional engineer for any other equivalently protective pond lining method to the Industrial Permits Team (MC-148) and copy the Compliance Monitoring Team (MC-224).
- 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), Compliance Monitoring Team (MC-224) 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.

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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 Assessment Team (MC-150), Compliance Monitoring Section (MC-224), 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.
- 7. Stormwater discharges from construction activities and construction support activities, and allowable non-stormwater discharges described in section (a)(1)-(8) below are authorized for discharge under this TPDES individual permit via Outfall 001.
  - (a) Allowable non-stormwater discharges authorized for discharge are limited to the following, unless specific waste streams are identified on Page 2 of this permit:

#### TPDES Permit No. WQ0002656000

- (1) discharges from emergency fire-fighting activities (emergency fire-fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, or similar activities);
- (2) uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water);
- (3) water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where solvents, detergents, and soaps are not used, where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;
- (4) uncontaminated water used to control dust;
- (5) potable water sources, including waterline flushings, but excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life;
- (6) uncontaminated air conditioning condensate;
- (7) uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents; and
- (8) lawn watering and similar irrigation drainage.
- (b) The permittee must implement and comply with the permit conditions and requirements outlined in the current TPDES stormwater Construction General Permit, TXR150000, effective on February 27, 2023, that are applicable for the type of operator and size of soil disturbing construction activities and construction support activities except as detailed in paragraphs (d) and (f) below. The permittee must identify and document the conditions and requirements established in TXR150000 that are applicable to its construction activities, including the development and implementation of a stormwater pollution prevention plan (SWP3) and best management practices (BMPs). The SWP3 must include justification documenting which conditions and requirements in TXR150000 are applicable to the permittee's construction activities and construction support activities.
- (c) The SWP3 and any other applicable records required by TXR150000 must be kept current, maintained onsite, and made readily available to TCEQ, federal, state, or local government representatives upon request.
- (d) Since stormwater discharges from construction activities and construction support activities and allowable non-stormwater discharges are authorized under this TPDES individual permit, there is no requirement for the permittee to obtain separate authorization(s) under TXR150000 by filing of a Notice of Intent (NOI) for construction activities and construction support activities performed within the permitted facility.
- (e) If authorization under TXR150000 for stormwater discharges from construction activities and construction support activities and allowable non-stormwater discharges at Outfall 001 exist, then the permittee must terminate coverage under TXR150000 for Outfall 001 upon issuance of this TPDES individual permit.
- (f) *Final Stabilization*. Because stormwater discharges from construction and construction support activities are covered under this TPDES individual permit, the permittee does not need to submit a Notice of Termination (NOT) after final stabilization has been completed.

#### TPDES Permit No. WQ0002656000

Instead, the permittee must document in the SWP3 the dates when soil disturbing construction activities are completed, and the final stabilization conditions and requirements established in TXR150000 have been achieved on any portion of the permitted facility.

(g) Should the permittee decide to alternatively obtain coverage to discharge under TXR150000, the permittee must file an application for a minor amendment of this TPDES individual permit to remove the authorization to discharge stormwater from construction activities and construction support activities, and allowable non-stormwater discharges. Once this individual permit is modified and issued, it is the responsibility of the permittee to obtain coverage under the TXR150000 for any construction activities within the permitted facility.

The permittee is placed on notice that authorization to continue discharging stormwater from construction activities and construction support activities, and allowable non-stormwater discharges under this TPDES individual permit, this Other Requirement 8 will be updated at the time of the next permitting action for this TPDES individual permit to require the permittee to comply with any new or revised conditions and requirements established within the current reissued and updated TXR150000.

Submitted to: Texas Commission on Environmental Quality 12100 Park 35 Circle Austin, Texas 78753 Submitted by: BASF Corporation 602 Copper Road Freeport, TX 77541



# BASF CORPORATION FREEPORT HARBOR TERMINAL TCEQ Industrial Wastewater Permit Renewal Application TPDES Permit No. WQ0002656000 March 2024

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: BASF Corporation

PERMIT NUMBER (If new, leave blank): WQ00<u>02656000</u>

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

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

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 (<u>TCEO Form-20893 and 20893-inst</u><sup>1</sup>).

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

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

Applicant Name: <u>BASF Corporation</u> Permit No.: <u>WQ00002656000</u> EPA ID No.: <u>TX0095605</u> Expiration Date: <u>09/17/2024</u>

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

Industrial Wastewater (wastewater and stormwater)

□ Industrial Stormwater (stormwater only)

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

 $\boxtimes$  Active  $\square$  Inactive

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

$\boxtimes$ TPDES Permit $\square$ TLA	P
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- e. Check the box next to the appropriate application type.
  - □ New
  - $\square$  Renewal with changes  $\boxtimes$  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: <u>Click to enter text.</u>

For TCEQ Use Only	r	
Segment Number _ Expiration Date Permit Number	CountyRegion _	

<sup>1</sup> <u>https://www.tceq.texas.gov/publications/search\_forms.html</u>

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### g. Application Fee

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

### h. Payment Information

### Mailed

Check or money order No.: N/A

Check or money order amt.: N/A

Named printed on check or money order: <u>N/A</u>

### Epay

Voucher number: 694745 and 694746

Copy of voucher attachment: <u>VOUCHER ATTACHED</u>

# Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: <u>CN600124895</u>

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

b. Legal name of the entity (applicant) applying for this permit: <u>BASF Corporation</u>

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

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

Prefix: <u>Mr.</u> Full Name (Last/First Name): <u>Morrison, Bradley</u>

Title: <u>Senior Vice President - General Manager Freeport</u> Credential: <u>Click to enter text.</u>

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

<sup>&</sup>lt;sup>2</sup> All facilities are designated as minors until formally classified as a major by EPA.

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

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🖾 Yes 🗆 No

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

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

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

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

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

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

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

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

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

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

□ Yes □ No

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

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

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

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

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

a.  $\boxtimes$  Administrative Contact .  $\boxtimes$  Technical Contact

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Dodd, Yasuko</u>

Title: <u>Sr. Environmental Specialist</u> Credential: <u>P.E.</u>

Organization Name: **BASF** Corporation

Mailing Address: 602 Copper Road

City/State/Zip: <u>Freeport, TX 77541</u>

Phone No: <u>979-415-6952</u> Email: <u>yasuko.dodd@basf.com</u>

b.  $\square$  Administrative Contact  $\square$  Technical Contact

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Cannon, Brittany</u>

Title: <u>Water/Wastewater Compliance Specialist</u> Credential: <u>Click to enter text.</u>

Organization Name: <u>BASF Corporation</u>

Mailing Address: 602 Copper Road

City/State/Zip: <u>Freeport, TX 77541</u>

Phone No: <u>979-415-6950</u> Email: <u>brittany.cannon@basf.com</u>

Attachment: Click to enter text.

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

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

a.	Prefix: <u>Mr.</u>	Full Name (Last,	/First Name): <u>Morriso</u> i	n, Brad	dley
	Title: <u>Senior '</u>	<u> Vice President</u> –	General Manager Free	port	Credential: <u>Click to enter text.</u>
	Organization	Name: <u>BASF Cor</u>	<u>rporation</u>		
	Mailing Addr	ess: <u>602 Copper</u>	Road	City/S	state/Zip: <u>Freeport, TX_77541</u>
	Phone No: <u>97</u>	'9-415-6111	Email: <u>bradley.morri</u>	son@ł	<u>oasf.com</u>
b.	Prefix: <u>Click</u>	to enter text.	Full Name (Last/First	t Nam	e): <u>Click to enter text.</u>
	litle: <u>Click to</u>	<u>) enter text.</u>	Credential: <u>Click to e</u>	enter t	lext.
	Organization	Name: <u>Click to e</u>	enter text.		
	Mailing Addr	ess: <u>Click to ente</u>	er text.	City/S	state/Zip: <u>Click to enter text.</u>
	Phone No: Cl	ick to enter text.	Email: <u>Click to enter</u>	text.	

Attachment: Click to enter text.

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

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

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

Prefix: Ms. Full Name (Last/First Name): Cannon, Brittany

Title: Water/Wastewater Compliance SpecialistCredential: Click to enter text.

Organization Name: <u>BASF Corporation</u>

Mailing Address: 602 Copper RoadCity/State/Zip: Freeport, TX 77541

Phone No: <u>979-415-6950</u> Email: <u>brittany.cannon@basf.com</u>

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

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

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Cannon, Brittany</u>

Title: <u>Water/Wastewater Compliance Specialist</u>

Credential: Click to enter text.

Organization Name: <u>BASF Corporation</u>

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

Mailing Address: <u>602 Copper Road</u>

City/State/Zip: Freeport, TX 77541

Phone No: <u>979-415-6950</u> Email: <u>brittany.cannon@basf.com</u>

# Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms.Full Name (Last/First Name): Dodd, YasukoTitle: Sr. Environmental SpecialistCredential: P.E.Organization Name: BASF CorporationMailing Address: 602 Copper RoadCity/State/Zip: Freeport, TX 77541Phone No: 979-415-6952Email: yasuko.dodd@basf.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: <u>yasuko.dodd@basf.com</u>
  - □ Fax: <u>Click to enter text.</u>
  - 🛛 Regular Mail (USPS)

Mailing Address: 602 Copper Road

City/State/Zip Code: Freeport, TX 77541

c. Contact in the Notice

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Dodd, Yasuko</u>

Title: <u>Sr. Environmental Specialist</u>Credential: <u>P.E.</u>

Organization Name: <u>BASF Corporation</u>

Phone No: <u>979-415-6952</u> Email: <u>yasuko.dodd@basf.com</u>

d. Public Viewing Location Information

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

Public building name: <u>Brazoria County Library – Freeport Branch</u> Location within the building: <u>Click to enter text.</u>

Physical Address of Building: <u>410 N. Brazosport Blvd.</u>

City: <u>Freeport</u> County: <u>Brazoria</u>

e. Bilingual Notice Requirements

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

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

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

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

```
🖾 Yes 🛛 No
```

If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

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

🖾 Yes 🛛 No

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

🗆 Yes 🖾 No

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

- 5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? <u>Spanish</u>
- f. Plain Language Summary Template Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: <u>PLS (SPANISH) ATTACHMENT</u>
- g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: <u>Not Applicable</u>

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

a. TCEQ issued Regulated Entity Number (RN), if available: <u>RN101619690</u>

**Note:** If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. 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): <u>BASF Freeport</u> <u>Harbor Terminal</u>
- c. Is the location address of the facility in the existing permit the same?

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

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

d. Owner of treatment facility:

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

or Organization Name: <u>BASF Corporation</u>

Mailing Address: 602 Copper Road

City/State/Zip: Freeport, TX 77541

<sup>□</sup> Yes ⊠ No □ N/A

	Phone No: <u>979-415-6111</u> Email: <u>bradley.morrison@basi.com</u>
e.	Ownership of facility: $\Box$ Public $\Box$ Private $\Box$ Both $\Box$ Federal
f.	Owner of land where treatment facility is or will be:
	Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>
	or Organization Name: <u>BASF Corporation</u>
	Mailing Address: 602 Copper RdCity/State/Zip: Freeport, TX 77541
	Phone No: <u>979-415-6111</u> Email: <u>bradley.morrison@basf.com</u>
	<b>Note:</b> If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: <u>Click to enter text.</u>
g.	Owner of effluent TLAP disposal site (if applicable): Click to enter text.
	Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>
	or Organization Name: <u>Click to enter text.</u>
	Mailing Address: Click to enter text.City/State/Zip: Click to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click to enter text.</u>
	<b>Note:</b> If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: <u>Click to enter text.</u>
h.	Owner of sewage sludge disposal site (if applicable):
	Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>
	or Organization Name: <u>Click to enter text.</u>
	Mailing Address: Click to enter text.City/State/Zip: Click to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click to enter text.</u>

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

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

a. Is the facility located on or does the treated effluent cross Native American Land?

🗆 Yes 🖾 No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

⊠ One-mile radius	☑ Three-miles downstream information
Applicant's property boundaries	Treatment facility boundaries
⊠ Labeled point(s) of discharge	⊠ Highlighted discharge route(s)
Effluent disposal site boundaries	⊠ All wastewater ponds
Sewage sludge disposal site	$\Box$ New and future construction

Attachment: USGS MAP ATTACHMENT

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

□ Yes □ No or New Permit

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

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

🖾 Yes 🛛 No or New Permit

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

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

🖾 Yes 🛛 No or New Permit

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

- f. City nearest the outfall(s): <u>Freeport</u>
- g. County in which the outfalls(s) is/are located: <u>Brazoria</u>
- h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

🗆 Yes 🖾 No

If ves, indicate by a	check mark if: 🗖 Au	uthorization granted	$\square$ Authorization	pending
in yes, marcate by a		anonzanon granca		penuing

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: <u>Click to enter text.</u>

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

 $\square$  Yes No or New Permit  $\boxtimes$  <u>N/A</u>

If no, or a new application, provide an accurate location description:  $\underline{N/A}$ 

- j. City nearest the disposal site: N/A
- k. County in which the disposal site is located: <u>N/A</u>
- l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site:  $\underline{\rm N/A}$
- m. For TLAPs, identify the nearest water course to the disposal site to which rainfall runoff might flow if not contained:  $\underline{\rm N/A}$

# Item 12. Miscellaneous Information (Instructions, Page 33)

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

🗆 Yes 🖾 No

If yes, list each person: <u>Click to enter text.</u>

b. Do you owe any fees to the TCEQ?

🗆 Yes 🖾 No

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

c. Do you owe any penalties to the TCEQ?

🗆 Yes 🖾 No

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

### Item 13. Signature Page (Instructions, Page 33)

#### Permit No: WQ0002656000

TVU

#### Applicant Name: BASF Corporation

Certification: I, <u>Bradley Morrison</u>, 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): Bradley Morrison

Signatory title: Senior Vice President – General Manager Freeport Site

Signature:(Use blue ink) Subscribed and Sworn to before me by the saidBro	Date: 03-11-24 adley Morrison
on this day of	march, 20 art.
My commission expires on the day of	June , 20 27.
Karen Schube	
Notary Public	[SEAL] KAREN SCHULZE
Brazoria County, Texas	Comm. Expires 06-05-2027 Notary ID 134391326

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

# INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1 – <u>NOT APPLICABLE</u>

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:

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

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

# 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: **SPIF ATTACHMENT** 

# WATER QUALITY PERMIT

# PAYMENT SUBMITTAL FORM – NOT APPLICABLE

# 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	BY OVERNIGHT/EXPRESS MAIL
Texas Commission on Environmental Quality	Texas Commission on Environmental Quality
Financial Administration Division	Financial Administration Division
Cashier's Office, MC-214	Cashier's Office, MC-214
P.O. Box 13088	12100 Park 35 Circle
Austin, Texas 78711-3088	Austin, Texas 78753

### Fee Code: WQP Permit No: WQ0002656000

- 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: <u>Click to enter text.</u>
- 5. APPLICATION INFORMATION

Name of Project or Site: <u>BASF Freeport Harbor Terminal</u>

Physical Address of Project or Site: <u>1451 Navigation Blvd Freeport, TX 77541</u>

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

### Staple Check or Money Order in This Space

- EPAY VOUCHER ATTACHED

# ATTACHMENT 1

# INDIVIDUAL INFORMATION- NOT APPLICABLE

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

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

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

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

Fax No.: <u>Click to enter text.</u>

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

For **additional information** or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u><sup>1</sup> 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).

The facility is an anhydrous ammonia terminal that includes two refrigerated ammonia storage tanks, unloading and loading facilities for barges and ocean vessels, and a pipeline distribution system. Discharge from the facility is dependent on rainfall. There is no production activity and no wastewater treatment plant located at this facility. The primary SIC code for this facility is 5169 - Chemicals and Allied Products (Not Elsewhere Classified).

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

The facility is an anhydrous ammonia loading/unloading and storage facility. No process wastewater is generated at this site. The intermittent discharges consist primarily of stormwater comingled with atmospheric condensate from the glycol exchangers, hydrostatic test water, vapor suppression water, and wash down from operations areas.

<sup>1</sup> 

https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\_industrial\_wastewater\_st eps.html

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

<b>.</b>		
Raw Materials	Intermediate Products	Final Products
Ammonia, Anhydrous		
7664-41-7		
Compressor Oil (SDS attached)		

### **Materials List**

### Attachment: SDS ATTACHMENT

- 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: FACILITY MAP ATTACHED

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

🗆 Yes 🖾 No

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

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

□ Yes 🛛 No

List source(s) used to determine 100-year frequency flood plain: <u>FEMA FIRM Map</u> <u>48039C0815K (12/30/2020)</u>. Facility is located in Zone A of the 100-year floodplain and no base <u>elevation is determined</u>.

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: <u>The Velasco Drainage</u> <u>District levee system protects the facility site from flooding</u>.

Attachment: Click to enter text.

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

 $\Box$  Yes  $\Box$  No  $\boxtimes$  N/A (renewal only)

- h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
  - 🗆 Yes 🗆 No

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

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

# Item 2. Treatment System (Instructions, Page 40)

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

No process wastewater is generated at this facility. Stormwater run-off and other utility water sources are conveyed to a containment area (Pond #1) and discharged via Outfall 001.

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: FLOW SCHEMATIC ATTACHMENT

# Item 3. Impoundments (Instructions, Page 40)

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

🖾 Yes 🗆 No

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

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

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

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

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

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

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

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

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

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

Parameter	Pond #1	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	С			
Associated Outfall Number	001			
Liner Type (C) (I) (S) or (A)	А			
Alt. Liner Attachment Reference	existing			
Leak Detection System, Y/N	N			
Groundwater Monitoring Wells, Y/N	Ν			
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y			
Length (ft)	N/A			
Width (ft)	N/A			
Max Depth From Water Surface (ft), Not Including Freeboard	5.5			
Freeboard (ft)	N/A			
Surface Area (acres)	3			
Storage Capacity (gallons)	5,376,175			

#### **Impoundment Information**

Parameter	Pond #1	Pond #	Pond #	Pond #
40 CFR Part 257, Subpart D, Y/N	Ν			
Date of Construction	Before 1995			

### Attachment: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

#### Attachment: Click to enter text.

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

Attachment: Click to enter text.

# 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	28.934343	-95.339995

#### **Outfall Location Description**

Outfall No.	Location Description
001	Southwest corner of T-200 block of company property.

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

Outfall No.	Description of sampling point		
001	Discharge side of the pump at the outfall.		

#### **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	Intermittent and variable flow	Intermittent and variable flow			

#### **Outfall Discharge - Method and Measurement**

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	Ν	Calculation
### **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*	Y	N	N	24 hrs (max)	9 days (max)	8 (max)

\*DMR data (2020-2023)

### **Outfall Wastestream Contributions**

### Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater	Variable	
Atmospheric condensate from refrigeration system	Variable	
Hydrostatic test water	Variable	
Fire protection water	Variable	
Washdown from operations areas	Variable	

### Outfall No. Click to enter text.

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

### Outfall No. Click to enter text.

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

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

Attachment: Click to enter text.

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

- a. Indicate if the facility currently or proposes to:
  - $\Box$  Yes  $\boxtimes$  No Use cooling towers that discharge blowdown or other wastestreams
  - $\Box$  Yes  $\boxtimes$  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: Click to enter text.

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)

### Item 6. Stormwater Management (Instructions, Page 44)

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

⊠ Yes □ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: <u>This facility</u> <u>stores and transports anhydrous ammonia and has no production or processing activity. Stormwater</u> <u>from the facility is commingled with atmospheric condensate from the refrigeration system, hydrostatic test water, fire protection water, and wash down from operations areas.</u>

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

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

- a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
  - Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
  - Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
  - Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
  - □ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
  - □ Facility is a POTW. Complete Worksheet 5.0.
  - Domestic sewage is not generated on-site.
  - Other (e.g., portable toilets), specify and Complete Item 7.b: Domestic sewage does not commingle with stormwater. It is collected into an aboveground storage tank and disposed off-site.
- 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.
Hauler – United Site Services	23400

Plant/Hauler Name	Permit/Registration No.	
Plant – Weimar WWTP	WQ0010311001	

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

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

🗆 Yes 🖾 No

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

# Item 9. Toxicity Testing (Instructions, Page 45)

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

🗆 Yes 🖾 No

If yes, identify the tests and describe their purposes: Click to enter text.

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

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

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

🗆 Yes 🖾 No

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

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

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

Attachment: 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: <u>PWS No.</u> 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.

Click to enter text.

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

🗆 Yes 🖾 No

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

Click to enter text.

# Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

#### CERTIFICATION:

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

Printed Name: Bradley Morrison

Title: Senior Vice Presient - General Manager Freeport

5 Signature: \_\_\_\_\_ Date: 03-9

Twe

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES – <u>NOT APPLICABLE</u>

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

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

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

#### a. Production Data

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

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

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 metalbearing and cyanide-bearing wastestreams, as required by 40 *CFR Part 414, Appendices A and B*.

#### Percentage of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide

### c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

Click to enter text.

### 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.

# 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

# 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): 10/04/2023 02/05/2024
- b.  $\square$  Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: <u>PERMIT SUPPLEMENTAL ATTACHMENT</u>

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

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

### TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: 001Samples are (check one): CompositeGrab					
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	
BOD (5-day)	4	3	ND	2	
CBOD (5-day)	3	ND	ND	ND	
Chemical oxygen demand	50	59	32	28	
Total organic carbon	15.6	23.6	10.4	7.4	
Dissolved oxygen	6.47	6.65	7.36	7.83	
Ammonia nitrogen	0.36	ND	ND	ND	
Total suspended solids	25	25	5	44	
Nitrate nitrogen	1.69	ND	ND	ND	
Total organic nitrogen	2.09	1.04	0.671	0.125	
Total phosphorus	0.19	0.16	0.06	0.11	
Oil and grease	ND	ND	ND	ND	
Total residual chlorine	ND	ND	ND	ND	

### TCEQ-10053 (01/08/2024) Industrial Wastewater Permit Application Technical Report

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids	696	632	418	354
Sulfate	222	46.8	39.7	36.5
Chloride	146	196	92.8	74.9
Fluoride	ND	ND	ND	ND
Total alkalinity (mg/L as CaCO3)	72	204	164	132
Temperature (°F)	79.5	66.7	79.5	43.7
pH (standard units)	7.4	7.5	7.8	7.6

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	650	248	302	787	2.5
Antimony, total	0.6	ND	ND	ND	5
Arsenic, total	2.5	3.6	2.3	1.9	0.5
Barium, total	67.0	92.7	79.4	76.9	3
Beryllium, total	ND	ND	ND	ND	0.5
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	0.9	0.5	0.8	1.0	3
Chromium, hexavalent	ND	ND	ND	ND	3
Chromium, trivalent	0.9	0.5	0.8	1.0	N/A
Copper, total	13	0.7	0.8	2.0	2
Cyanide, available	ND*	ND*	ND*	ND*	2/10
Lead, total	ND	ND	ND	0.6	0.5
Mercury, total	0.00340	0.00124	0.00104	0.00338	0.005/0.0005
Nickel, total	1.6	1.8	1.6	1.5	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	29.8	8.0	24.5	18.8	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.: Click to enter tex	t. Sample	es are (check	one): 🗆 🛛 Co	omposite 🗆	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
1,2-Dichloroethane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]					10
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
[Trichloroethylene]					

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

(\*) Indicate units if different from  $\mu$ g/L.

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

### TABLE 4 (Instructions, Pages 58-59)

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

### a. Tributyltin

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

🗆 Yes 🖾 No

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

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

### b. Enterococci (discharge to saltwater)

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

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

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

#### c. E. coli (discharge to freshwater)

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

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

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

Table 4 for Outfall No.: Click to enter text.	Samples are (check one): 🗆	Composite		Grab
---	----------------------------	-----------	--	------

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

### TABLE 5 (Instructions, Page 59)

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

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

🛛 N/A

Table 5 for Outfall No.: Click	Samples a	re (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
Diuron	1				0.090

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

\* Indicate units if different from µg/L.

### TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.:	9	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		$\boxtimes$					400
Color (PCU)	$\boxtimes$		N/A	N/A	N/A	50	—
Nitrate-Nitrite (as N)		$\boxtimes$					—
Sulfide (as S)		$\boxtimes$					—
Sulfite (as SO3)		$\boxtimes$					—
Surfactants		$\boxtimes$					—
Boron, total	$\boxtimes$		N/A	0.111	0.091	0.079	20
Cobalt, total		$\boxtimes$					0.3
Iron, total	$\boxtimes$		0.570	0.788	0.578	0.885	7
Magnesium, total	$\boxtimes$		17.6	17.1	13.5	11.0	20
Manganese, total	$\boxtimes$		0.159	0.106	0.0395	0.0852	0.5
Molybdenum, total		$\boxtimes$					1
Tin, total		$\boxtimes$					5
Titanium, total		$\boxtimes$					30

### TABLE 7 (Instructions, Page 60)

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

⊠ N/A

#### **Table 7 for Applicable Industrial Categories**

Ind	ustrial Category	40 CFR	Volatiles	Acids	Bases/	Pesticides
		Part	Table 8	Table 9	Neutrals	Table 11
			-	-	Table 10	NT
	Adhesives and Sealants	107	□ 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.	435	□ Yes	$\square$ Yes	□ Yes	No
	G, H					
	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	D Yes
	Plastic Processing	463		No	No	No
	Porcelain Fnameling	466	No	No	No	No
	Printing and Publishing		T Yes			
	Puln and Paperboard Mills - Subpart C	430				
	Pulp and Paperboard Mills - Subpart C	430				
	Pulp and Paperboard Mills - Subparts A, R, D	430				
	G, H	150		103		
	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.:Click to enter text.Samples are (check one):CompositeGr					
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
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10

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

\* Indicate units if different from µg/L.

Table 9 for Outfall No.: Click to enter text.Samples are (check one): CompositeGrab						
Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)	
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  $\mu g/L$ .

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

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

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

\* Indicate units if different from  $\mu$ g/L.

Fable 11 for Outfall No.: Click to enter text. Samples are (check one): 🗖 Composite 🔲 Grab							
Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)		
Aldrin					0.01		
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05		
beta-BHC [beta-Hexachlorocyclohexane]					0.05		
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05		
delta-BHC [delta-Hexachlorocyclohexane]					0.05		
Chlordane					0.2		
4,4'-DDT					0.02		
4,4'-DDE					0.1		
4,4'-DDD					0.1		
Dieldrin					0.02		
Endosulfan I (alpha)					0.01		
Endosulfan II (beta)					0.02		
Endosulfan sulfate					0.1		
Endrin					0.02		
Endrin aldehyde					0.1		
Heptachlor					0.01		
Heptachlor epoxide					0.01		
PCB 1242					0.2		
PCB 1254					0.2		
PCB 1221					0.2		
PCB 1232					0.2		
PCB 1248					0.2		

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

\* Indicate units if different from  $\mu$ g/L.

Attachment: Click to enter text.

### TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

### Description: 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.

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

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

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8- PeCDF	0.03					50
2,3,4,7,8- PeCDF	0.3					50
2,3,7,8- HxCDFs	0.1					50
2,3,4,7,8- HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

### **TABLE 13 (HAZARDOUS SUBSTANCES)**

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

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

🗆 Yes 🖾 No

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

🗆 Yes 🖾 No

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

Table 13 for Outfall No.: C	lick to enter t	ext. Sampl	es are (checl	k one): 🗖 🛛 C	omposite	🗆 Grab
Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT – <u>NOT</u> <u>APPLICABLE</u>

This worksheet **is required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

# Item 1. Type of Disposal System (Instructions, Page 69)

Check the box next to the type of land disposal requested by this application:

- □ Irrigation
- □ Evaporation

- □ Subsurface application
- □ Subsurface soils absorption

Evapotranspiration beds

Surface application

□ Drip irrigation system

□ Other, specify: <u>Click to enter text</u>.

### Item 2. Land Application Area (Instructions, Page 69)

### Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)

# Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances
- Justification for not removing existing vegetation to be irrigated

### Item 4. Well and Map Information (Instructions, Page 70)

- a. Check each box to confirm the required information is shown and labeled on the attached USGS map:
  - □ The exact boundaries of the land application area
  - □ On-site buildings
  - □ Waste-disposal or treatment facilities
  - □ Effluent storage and tailwater control facilities
  - $\Box$  Buffer zones
  - □ All surface waters in the state onsite and within 500 feet of the property boundaries

 $\square$  All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries

□ All springs and seeps onsite and within 500 feet of the property boundaries

Attachment: Click to enter text.

b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

#### Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice

#### Attachment: Click to enter text.

- c. Groundwater monitoring wells or lysimeters are/will be installed around the land application site or wastewater ponds.
  - □ Yes □ No

If **yes**, provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.

#### Attachment: Click to enter text.

d. Attach a short groundwater technical report using *30 TAC § 309.20(a)(4)* as guidance. **Attachment:** 

# Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

- a. USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.
- b.  $\Box$  Breakdown of acreage and percent of total acreage for each soil type.
- c. 
  Copies of laboratory soil analyses. Attachment: <u>Click to enter text.</u>

## Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. Completion of Table 14 **is required** for all **renewal** and **major amendment** applications. Complete the table with monitoring data for the previous two years for all parameters regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 14 fo	r Outfall No.: 🤇	click to en	ter text.	Samples are	e (check one): 🗖	Composite	🗖 Grab
Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)

b. Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

#### **Additional Parameter Effluent Analysis**

Date (mo/yr)				

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** <u>Click to enter text.</u>

# Item 7. Pollutant Analysis (Instructions, Page 72)

- 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): Click to enter text.
- b. Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Complete Tables 15 and 16.

Table 15 for Outfall No.: Click to enter	text. Samples	are (check one)	): 🗖 🛛 Composite	e 🛛 Grab
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3	Sample 4
ROD (5-day)	(1115/12)	(1116/12)	(1116/12)	(1119/12)
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 16 for Outfall No.: Click to enter text.		Samples are	e (check one):	Composit	e 🛛 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

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

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION- <u>NOT APPLICABLE</u>

This worksheet **is required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

# Item 1. Edwards Aquifer (Instructions, Page 73)

a. Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?

□ Yes □ No

If **no**, proceed to Item 2. If **yes**, complete Items 1.b **and** 1.c.

- b. Check the box next to the subchapter applicable to the facility.
  - □ 30 TAC Chapter 213, Subchapter A
  - □ 30 TAC Chapter 213, Subchapter B
- c. If *30 TAC Chapter 213, Subchapter A* applies, attach **either**: 1) a Geologic Assessment (if conducted in accordance with *30 TAC § 213.5*) **or** 2) a report that contains the following:
  - A description of the surface geological units within the proposed land application site and wastewater pond area.
  - The location and extent of any sensitive recharge features in the land application site and wastewater pond area
  - A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

# Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations: Area under irrigation (acres): <u>Click to enter text</u>.
Design application rate (acre-ft/acre/yr): <u>Click to enter text</u>.
Design application frequency (hours/day): <u>Click to enter text</u>.
Design application frequency (days/week): <u>Click to enter text</u>.
Design total nitrogen loading rate (lbs nitrogen/acre/year): <u>Click to enter text</u>.
Average slope of the application area (percent): <u>Click to enter text</u>.
Maximum slope of the application area (percent): <u>Click to enter text</u>.
Irrigation efficiency (percent): <u>Click to enter text</u>.
Effluent conductivity (mmhos/cm): <u>Click to enter text</u>.
Soil conductivity (mmhos/cm): <u>Click to enter text</u>.
Curve number: <u>Click to enter text</u>.
Describe the application method and equipment: <u>Click to enter text</u>. b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. Attachment: <u>Click to enter text.</u>

### Item 3. Evaporation Ponds (Instructions, Page 74)

- a. Daily average effluent flow into ponds: <u>Click to enter text.</u> gallons per day
- b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** <u>Click to enter text.</u>

## Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: <u>Click to enter text.</u>

Area of bed(s) (acres): <u>Click to enter text.</u>

Depth of bed(s) (feet): <u>Click to enter text.</u>

Void ratio of soil in the beds: <u>Click to enter text.</u>

Storage volume within the beds (include units): <u>Click to enter text.</u>

Description of any lining to protect groundwater: <u>Click to enter text.</u>

- b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. Attachment: <u>Click to enter text.</u>
- c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** <u>Click to enter text.</u>

# Item 5. Overland Flow (Instructions, Page 74)

- a. Provide the following information on the overland flow: Area used for application (acres): <u>Click to enter text</u>.
  Slopes for application area (percent): <u>Click to enter text</u>.
  Design application rate (gpm/foot of slope width): <u>Click to enter text</u>.
  Slope length (feet): <u>Click to enter text</u>.
  Design BOD5 loading rate (lbs BOD5/acre/day): <u>Click to enter text</u>.
  Design application frequency (hours/day): <u>Click to enter text</u>.
  Design application frequency (days/week): <u>Click to enter text</u>.
- b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*. Attachment: <u>Click to enter text.</u>
### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SUBSURFACE IRRIGATION (NON-DRIP) – <u>NOT</u> <u>APPLICABLE</u>

This worksheet **is required** for all applications for a permit to disposal of wastewater by subsurface land application.

Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

### Item 1. Edwards Aquifer (Instructions, Page 75)

- a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?
  - 🗆 Yes 🗆 No
- b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?
  - □ Yes □ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

### Item 2. Subsurface Application (Instructions, Page 75)

- a. Check the box next to the type of subsurface land disposal system requested:
  - □ Conventional drainfield, beds, or trenches
  - □ Low pressure dosing
  - □ Other: <u>Click to enter text.</u>
- b. Provide the following information on the irrigation operations:

Application area (acres): <u>Click to enter text.</u>

Area of drainfield (square feet): Click to enter text.

Application rate (gal/square ft/day): Click to enter text.

Depth to groundwater (feet): <u>Click to enter text.</u>

Area of trench (square feet): <u>Click to enter text.</u>

Dosing duration per area (hours): <u>Click to enter text.</u>

Number of beds: <u>Click to enter text.</u>

Dosing amount per area (inches/day): <u>Click to enter text.</u>

Soil infiltration rate (inches/hour): <u>Click to enter text.</u>

Storage volume (gallons): <u>Click to enter text.</u>

Area of bed(s) (square feet): <u>Click to enter text.</u>

Soil classification: Click to enter text.

c. Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation. **Attachment:** <u>Click to enter text.</u>

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL SYSTEMS – <u>NOT APPLICABLE</u>

This worksheet **is required** for all applications for a permit to dispose of wastewater using a subsurface area drip dispersal system (SADDS).

Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

#### Item 1. Edwards Aquifer (Instructions, Page 76)

- a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?
  - □ Yes □ No
- b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?

□ Yes □ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

### Item 2. Administrative Information (Instructions, Page 76)

- a. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility: <u>Click to enter text</u>.
- b. The owner of the land where the WWTF is/will be located is the same as the owner of the WWTF.
  - 🗆 Yes 🗆 No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the WWTF is/will be located: <u>Click to enter text.</u>

- c. Provide the legal name of the owner of the SADDS: <u>Click to enter text.</u>
- d. The owner of the SADDS is the same as the owner of the WWTF or the site where the WWTF is/will be located.

□ Yes □ No

If **no**, identify the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.c: <u>Click to enter text.</u>

e. Provide the legal name of the owner of the land where the SADDS is located: <u>Click to enter</u> <u>text</u>.

- f. The owner of the land where the SADDS is/will be located is the same as owner of the WWTF, the site where the WWTF is located, or the owner of the SADDS.
  - 🗆 Yes 🗆 No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.e: <u>Click to enter text.</u>

#### Item 3. SADDS (Instructions, Page 77)

- a. Check the box next to the type SADDS requested by this application:
  - □ Subsurface drip/trickle irrigation
  - □ Surface drip irrigation
  - □ Other: <u>Click to enter text</u>.
- b. Attach a description of the SADDS proposed/used by the facility (see instructions for guidance). Attachment: <u>Click to enter text.</u>
- c. Provide the following information on the SADDS:

Application area (acres): <u>Click to enter text.</u>

Soil infiltration rate (inches/hour): <u>Click to enter text.</u>

Average slope of the application area: <u>Click to enter text.</u>

Maximum slope of the application area: Click to enter text.

Storage volume (gallons): <u>Click to enter text.</u>

Major soil series: <u>Click to enter text.</u>

Depth to groundwater (feet): <u>Click to enter text.</u>

Effluent conductivity (mmhos/cm): Click to enter text.

d. The facility is/will be located west of the boundary shown in *30 TAC § 222.83* **and** using a vegetative cover of non-native grasses over seeded with cool-season grasses.

🗆 Yes 🗆 No

If **yes**, the facility may propose a hydraulic application rate up to, but not to exceed, 0.1  $gal/ft^2/day$ .

e. The facility is/will be located east of the boundary shown in *30 TAC § 222.83* **or** is the facility proposing any crop other than non-native grasses.

□ Yes □ No

If **yes**, the facility must use the formula in *30 TAC § 222.83* to calculate the maximum hydraulic application rate.

f. The facility has or plans to submit an alternative method to calculate the hydraulic application rate for approval by the ED.

🗆 Yes 🗆 No

If **yes**, provide the following information on the hydraulic application rates:

- Hydraulic application rate (gal/square foot/day): <u>Click to enter text.</u>
- Nitrogen application rate (gal/square foot/day): Click to enter text.
- g. Provide the following dosing information:

Number of doses per day: <u>Click to enter text.</u> Dosing duration per area (hours): <u>Click to enter text.</u> Rest period between doses (hours): <u>Click to enter text.</u> Dosing amount per area (inches/day): <u>Click to enter text.</u> Number of zones: <u>Click to enter text.</u>

- h. The system is/will be a surface drip irrigation system using existing native vegetation as a crop?
  - □ Yes □ No

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

• A vegetation survey by a certified arborist describing the percent canopy cover and relative percentage of major overstory and understory plant species.

Attachment: Click to enter text.

• Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

#### Item 4. Required Plans (Instructions, Page 78)

a. Attach a Soil Evaluation with all information required in *30 TAC § 222.73*.

Attachment: Click to enter text.

- b. Attach a Site Preparation Plan with all information required in *30 TAC § 222.75*.
   Attachment: <u>Click to enter text.</u>
- c. Attach a Recharge Feature Plan with all information required in *30 TAC § 222.79*.
   Attachment: <u>Click to enter text.</u>
- d. Provide soil sampling and testing with all information required in *30 TAC § 222.157*.
   Attachment: <u>Click to enter text.</u>

#### Item 5. Flood and Run-On Protection (Instructions, Page 79)

- a. Is the existing/proposed SADDS located within the 100-year frequency flood level?
  - □ Yes □ No

Source: Click to enter text.

If yes, describe how the site will be protected from inundation: <u>Click to enter text.</u>

- b. Is the existing/proposed SADDS within a designated floodway?
  - □ Yes □ No

If **yes**, attach either the FEMA flood map or alternate information used to make this determination. Attachment: <u>Click to enter text.</u>

#### Item 6. Surface Waters in The State (Instructions, Page 79)

- a. Attach a buffer map which shows the appropriate buffers on surface waters in the state, water wells, and springs/seeps. **Attachment:** <u>Click to enter text.</u>
- b. The facility has or plans to request a buffer variance from water wells or waters in the state?
  - 🗆 Yes 🗆 No

If **yes**, attach the additional information required in *30 TAC § 222.81(c)*. Attachment: <u>Click to</u> <u>enter text</u>.

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

# Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

🗆 Yes 🛛 No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

- 1. The legal name of the owner of the drinking water supply intake: Click to enter text.
- 2. The distance and direction from the outfall to the drinking water supply intake: <u>Click to</u> <u>enter text.</u>
- b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.
  - Check this box to confirm the above requested information is provided.

### Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: <u>N/A (ditch)</u> feet

b. Are there oyster reefs in the vicinity of the discharge?

🗆 Yes 🖾 No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: <u>Click to</u> <u>enter text</u>.

c. Are there sea grasses within the vicinity of the point of discharge?

🗆 Yes 🛛 No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: <u>Click to enter</u> <u>text</u>.

### Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

🗆 Yes 🖾 No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

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

- a. Name of the immediate receiving waters: <u>Unnamed Ditch</u>
- b. Check the appropriate description of the immediate receiving waters:
  - □ Lake or Pond
    - Surface area (acres): <u>Click to enter text.</u>
    - Average depth of the entire water body (feet): <u>Click to enter text.</u>
    - Average depth of water body within a 500-foot radius of the discharge point (feet): <u>Click to enter text.</u>
  - Man-Made Channel or Ditch
  - □ Stream or Creek
  - □ Freshwater Swamp or Marsh
  - Tidal Stream, Bayou, or Marsh
  - □ Open Bay
  - $\Box$  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
- $\boxtimes$  personal observation
- □ historical observation by adjacent landowner(s)
- □ other, specify: <u>Click to enter text</u>.
- d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: N/A
- 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: <u>Receiving waters consist of man-made ditches for approximately 2 miles</u> before flowing into Bryan Lake that then outflows to Bryan Cut.

f. General observations of the water body during normal dry weather conditions: <u>Water body is</u> <u>a dry, vegetated ditch during normal dry weather conditions.</u>

Date and time of observation: 3/5/2024

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

🗆 Yes 🖾 No

If **yes**, describe how: <u>Click to enter text</u>.

#### 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):

 $\boxtimes$ 

septic tanks

other, specify: Industrial Area

- □ oil field activities □ urban runoff
- agricultural runoff
  - upstream discharges
- b. Uses of water body observed or evidence of such uses (check all that apply):
  - livestock watering industrial water supply irrigation withdrawal non-contact recreation navigation domestic water supply picnic/park activities contact recreation other, specify: Click to enter text. fishing
- 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 4.1: WATERBODY PHYSICAL CHARACTERISTICS – <u>NOT APPLICABLE</u>

The following information **is required** for new applications, EPA-designated Major facilities, and major amendment applications requesting to add an outfall if the receiving waters are perennial or intermittent with perennial pools (including impoundments) for a TDPES permit.

Complete the transects downstream of the existing or proposed discharges.

### Item 1. Data Collection (Instructions, Page 82)

a.	Date of study: <u>Click to enter text.</u> Time of study: <u>Click to enter text.</u>
	Waterbody name: <u>Click to enter text.</u>
	General location: <u>Click to enter text.</u>
b.	Type of stream upstream of an existing discharge or downstream of a proposed discharge (check only one):
	$\square$ perennial $\square$ intermittent with perennial pools $\square$ impoundment
c.	No. of defined stream bends:
	Well: Click to enter text.Moderately: Click to enter text.Poorly: Click to enter text.
d.	No. of riffles: <u>Click to enter text.</u>
e.	Evidence of flow fluctuations (check one):
	□ Minor □ Moderate □ Severe
f.	Provide the observed stream uses and where there is evidence of channel obstructions/modifications: Click to enter text.

g. Complete the following table with information regarding the transect measurements.

#### **Stream Transect Data**

Transect Location	Habitat Type*	Water Surface Width (ft)	Stream Depths (ft)**				

\*\* channel bed to water surface

### Item 2. Summarize Measurements (Instructions, Page 83)

Provide the following information regarding the transect measurements:

Streambed slope of entire reach (from USGS map in ft. /ft.): Click to enter text.

Approximate drainage area above the most downstream transect from USGS map or county highway map (square miles): <u>Click to enter text.</u>

Length of stream evaluated (ft): <u>Click to enter text.</u>

Number of lateral transects made: Click to enter text.

Average stream width (ft): <u>Click to enter text.</u>

Average stream depth (ft): <u>Click to enter text.</u>

Average stream velocity (ft/sec): <u>Click to enter text.</u>

Instantaneous stream flow (ft<sup>3</sup>/sec): Click to enter text.

Indicate flow measurement method (VERY IMPORTANT – type of meter, floating chip timed over a fixed distance, etc.): <u>Click to enter text.</u>

Flow fluctuations (i.e., minor, moderate, or severe): Click to enter text.

Size of pools (i.e., large, small, moderate, or none): Click to enter text.

Maximum pool depth (ft): <u>Click to enter text.</u>

Total number of stream bends: Click to enter text.

Number well defined: <u>Click to enter text.</u>

Number moderately defined: <u>Click to enter text.</u>

Number poorly defined: <u>Click to enter text.</u>

Total number of riffles: Click to enter text.

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL – <u>NOT APPLICABLE</u>

The following information **is required** for all TPDES permit applications that meet the conditions as outlined in Technical Report 1.0, Item 7.

#### Item 1. Sewage Sludge Solids Management Plan (Instructions, Page 84)

- a. Is this a new permit application or an amendment permit application?
  - 🗆 Yes 🗆 No
- b. Does or will the facility discharge in the Lake Houston watershed?
  - 🗆 Yes 🗆 No

If **yes** to either Item 1.a **or** 1.b, attach a solids management plan. **Attachment:** <u>Click to enter</u> <u>text.</u>

#### Item 2. Sewage Sludge Management and Disposal (Instructions, Page 84)

- a. Check the box next to the sludge disposal method(s) authorized under the facility's existing permit (check all that apply).
  - □ Permitted landfill
  - □ Marketing and distribution by the permittee, attach Form TCEQ-00551
  - □ Registered land application site, attach Form TCEQ-00565
  - □ Processed by the permittee, attach Form TCEQ-00744
  - □ Surface disposal site (sludge monofill), attach Form TCEQ-00744
  - □ Transported to another WWTP
  - Beneficial land application, attach Form TCEQ-10451
  - □ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach the required TCEQ forms as directed. Failure to submit the required TCEQ form will result in delays in processing the application

#### Attachment: Click to enter text.

b. Provide the following information for each disposal site:

Disposal site name: <u>Click to enter text.</u>

TCEQ Permit/Registration Number: Click to enter text.

County where disposal site is located: <u>Click to enter text.</u>

c.	Method of sewage sludge transportation:	
	$\Box$ truck $\Box$ train $\Box$ pipe $\Box$ other: <u>Click to enter text.</u>	
	TCEQ Hauler Registration Number: <u>Click to enter text.</u>	
d.	Sludge is transported as a:	
	□ liquid □ semi-liquid □ semi-solid □ solid	
e.	Purpose of land application:   reclamation  soil conditioning	N/A

f. If sewage sludge is transported to another WWTP for treatment, attach a written statement or copy of contractual agreements confirming that the WWTP identified above will accept and be responsible for the sludge from this facility for the life of the permit (at least 5 years).

Attachment: Click to enter text.

### Item 3. Authorization for Sewage Sludge Disposal (Instructions, Page 85)

If this is a new or major amendment application which requests authorization of a new sewage sludge disposal method, check the new sewage disposal method(s) requested for authorization (check all that apply):

- □ Marketing and distribution by the permittee, attach Form TCEQ-00551
- □ Processed by the permittee, attach Form TCEQ-00744
- □ Surface disposal site (sludge monofill), attach Form TCEQ-00744
- Beneficial land application, attach Form TCEQ-10451
- □ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach any required TCEQ forms, as directed. Failure to submit the required TCEQ form will result in delays in processing the application.

#### Attachment: Click to enter text.

**NOTE:** New authorization for beneficial land application, incineration, processing, or disposal in the TPDES permit or TLAP **requires a major amendment to the permit**. New authorization for composting may require a major amendment to the permit. See the instructions to determine if a major amendment is required or if authorization for composting can be added through the renewal process.

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION- <u>NOT</u> <u>APPLICABLE</u>

The following information **is required** for all applications for publicly-owned treatment works (POTWs).

For an explanation of the terms used in this worksheet, refer to the General Definitions on pages 4-12 and the Definitions Relating to Pretreatment on pages 13-14 of the Instructions.

#### Item 1. All POTWs (Instructions, Page 86)

a. Complete the following table with the number of each type of industrial users (IUs) that discharge to the POTW and the daily average flows from each.

#### **Industrial User Information**

Type of Industrial User	Number of Industrial Users	Daily Average Flow (gallons per day)
CIU		
SIU – Non-categorical		
Other IU		

b. In the past three years, has the POTW experienced treatment plant interference?

□ Yes □ No

If **yes**, identify the date(s), duration, nature of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IU(s) that may have caused the interference: <u>Click to enter text</u>.

c. In the past three years, has the POTW experienced pass-through?

□ Yes □ No

If **yes**, identify the date(s), duration, pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass-through event. Include the names of the IU(s) that may have caused the pass-through: <u>Click to enter text.</u>

d. Does the POTW have, or is it required to develop, an approved pretreatment program?

□ Yes □ No

If **yes**, answer all questions in Item 2 and skip Item 3.

If **no**, skip Item 2 and answer all questions in Item 3 for each SIU and CIU.

### Item 2. POTWs With Approved Pretreatment Programs or Those Required To Develop A Pretreatment Program (Instructions, Page 86)

a. Have there been any substantial modifications to the POTW's approved pretreatment program that have not been submitted to the Approval Authority (TCEQ) for approval according to *40 CFR § 403.18*?

🗆 Yes 🗆 No

If **yes**, include an attachment which identifies all substantial modifications that have not been submitted to the TCEQ and the purpose of the modifications.

Attachment: Click to enter text.

- b. Have there been any non-substantial modifications to the POTW's approved pretreatment program that have not been submitted to the Approval Authority (TCEQ)?
  - 🗆 Yes 🗆 No

If **yes**, include an attachment which identifies all non-substantial modifications that have not been submitted to the TCEQ and the purpose of the modification.

Attachment: Click to enter text.

c. List all parameters measured above the MAL in the POTW's effluent monitoring during the last three years:

#### Effluent Parameters Measured Above the MAL

Pollutant	Concentration	MAL	Units	Date

Attachment: Click to enter text.

d. Has any SIU, CIU, or other IU caused or contributed to any other problems (excluding interference or pass-through) at the POTW in the past three years?

🗆 Yes 🗆 No

If **yes**, provide a description of each episode, including date(s), duration, description of problems, and probable pollutants. Include the name(s) of the SIU(s)/CIU(s)/other IU(s) that may have caused or contributed to any of the problems: <u>Click to enter text</u>.

#### Item 3. Significant Industrial User and Categorical Industrial User Information (Instructions, Pages 88-87)

POTWs that **do not** have an approved pretreatment program **are required** to provide the following information for each SIU and CIU:

a. Mr. or Ms.: Click to enter text. First/Last Name: Click to enter text.

Organization Name: <u>Click to enter text.</u> Phone number: <u>Click to enter text.</u> Physical Address: <u>Click to enter text.</u> **Attachment:** Click to enter text. SIC Code: <u>Click to enter text.</u> Email address: <u>Click to enter text.</u> City/State/ZIP Code: <u>Click to enter text.</u>

- b. Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (e.g., process and non-process wastewater): <u>Click to enter text.</u>
- c. Provide a description of the principal products(s) or service(s) performed: <u>Click to enter</u> <u>text.</u>
- d. Flow rate information

#### **Flow Rate Information**

Effluent Type	Discharge Day (gallons per day)	Discharge Frequency (Continuous, batch, or intermittent)
Process Wastewater		
Non-process Wastewater		

- e. Pretreatment Standards
  - 1. Is the SIU or CIU subject to technology-based local limits as defined in the application instructions?
    - □ Yes □ No
  - 2. Is the SIU subject to categorical pretreatment standards?

🗆 Yes 🗆 No

If **yes**, provide the category and subcategory or subcategories in the SIUs Subject To Categorical Pretreatment Standards table.

#### SIUs Subject to Categorical Pretreatment Standards

Category in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR

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

🗆 Yes 🗆 No

If **yes**, provide a description of each episode, including dates, duration, description of problems, and probable pollutants, and include the name(s) of the SIU(s)/CIU(s) that may have caused or contributed to the problem(s): <u>Click to enter text</u>.

### 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.

Outfall	Authorization under MSGP	Authorized Under Individual Permit
001		

#### Authorization Coverage

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: FACILITY MAP ATTACHMENT

### 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.

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
001	4 acres	8 acres

#### **Impervious Surfaces**

b. Provide the following local area rainfall information and the source of the information. Wettest month: <u>September</u>

Average rainfall for wettest month (total inches): 7.1

25-year, 24-hour rainfall (inches): <u>11.3</u>

Source: <u>NOAA NCEI US Climate Monthly Normals 1991-2020</u>, <u>NOAA Atlas 14</u> : <u>Precipitation-Frequency Atlas of the United States</u>, <u>Volume 11 V2.0</u>: <u>Texas</u>

- c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** <u>PERMIT SUPPLEMENTAL ATTACHMENT</u>
- 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: <u>PERMIT SUPPLEMENTAL ATTACHMENT</u>
- e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: <u>Chemical storage tanks, reservoirs and associated pumps are located in curbed or diked areas.</u> Stormwater collected in these areas is inspected prior to being transferred to the containment area (Pond #1) adjacent to Outfall 001 and the containment area is sampled prior to discharge. To minimize sediment runoff from any future construction activity, BASF will minimize the areas disturbed and utilize silt control measures (e.g. silt-fences, hay bales, etc.) as appropriate and will follow all the erosion control measures contained in the associated Stormwater Pollution Prevention Plan for construction activities at the site.

### 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.,  $05/01/2018 \cdot 05/30/2018$ ): 10/04/2023 02/05/2024
- b.  $\square$  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.

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)	7.8 (max)	—	7.4 (min)	—	4	_
Total suspended solids	44		25		4	_
Chemical oxygen demand	59		42		4	_
Total organic carbon	23.6		14.3		4	—
Oil and grease	ND		<5.0		4	—
Arsenic, total	0.0036		0.0026		4	0.0005
Barium, total	0.0927		0.0790		4	0.003

#### Table 17 for Outfall No.: <u>001</u>

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)
Cadmium, total	ND		< 0.0004		4	0.001
Chromium, total	0.0010		0.0008		4	0.003
Chromium, trivalent	0.0010		0.0008		4	—
Chromium, hexavalent	ND		< 0.0047		4	0.003
Copper, total	0.013		0.004		4	0.002
Lead, total	0.0006		0.0003		4	0.0005
Mercury, total	0.0000034		0.00000227		4	0.000005
Nickel, total	0.0018		0.0016		4	0.002
Selenium, total	ND		< 0.0032		4	0.005
Silver, total	ND		< 0.0004		4	0.0005
Zinc, total	0.0298		0.0203		4	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.: <u>001</u>

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
Color (PCU)	50				1
Boron, total	0.111		0.094		3
Iron, total	0.885		0.705		4
Magnesium, total	17.6		14.8		4
Manganese, total	0.159		0.097		4

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

\* 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: <u>SEE PERMIT SUPPLEMENTAL ATTACHMENT</u>

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

Total rainfall during storm event (inches): <u>Click to enter text.</u>

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

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:

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 8.0: AQUACULTURE – <u>NOT APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications requesting individual permit coverage for discharges of aquaculture wastewater.

#### Item 1. Facility/Site Information (Instructions, Page 94)

a. Complete the following table with information regarding production ponds, raceways, and fabricated tanks at the facility.

#### **Production Pond Descriptions**

Number of Ponds	Dimensions (include units)	Area of Each Pond (include units)	Number of Ponds x Area of Ponds (include Units)

Total surface area of all ponds: <u>Click to enter text.</u>

#### **Raceway Descriptions**

Number of Raceways	Dimensions (include units)

#### **Fabricated Tank Descriptions**

Number of Tanks	Dimensions (include units)

b. Does the facility have a TPWD-approved emergency plan?

□ Yes □ No

If **yes**, attach a copy of the approved plan.

Attachment: Click to enter text.

c. Does the facility have an aquatic plant transplant authorization?

🗆 Yes 🗆 No

If **yes**, attach a copy of the authorization letter.

Attachment: Click to enter text.

d. Provide the number of aquaculture facilities located within 25-miles of this facility: <u>Click to</u> <u>enter text.</u>

### Item 2. Species Identification (Instructions, Page 95)

Complete the following table regarding each species raised, source, origin, and disease status of the stock. Identify and attach copies of any current relevant authorizations or permits that authorize the species.

#### **Stock Species Information**

Species	Source of Stock	Origin of Stock	Disease Status	Authorizations

Attachment: Click to enter text.

#### Item 3. Stock Management Plan (Instructions, Page 95)

Attach a detailed stock management plan: Click to enter text.

#### Item 4. Water Treatment and Discharge Description (Instructions, Page 96)

Attach a detailed description of the discharge practices and water treatment process(es): <u>Click</u> to enter text.

#### Item 5. Solid Waste Management (Instructions, Page 96)

Attach a description of the solid waste-disposal practices: Click to enter text.

### Item 6. Site Assessment Report (Instructions, Page 96)

All new and expanding commercial shrimp facilities located/to be located within the coastal zone must attach a detailed site assessment report which identifies sensitive aquatic habitats within the coastal zone: <u>Click to enter text</u>.

## WORKSHEET 9.0

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

#### CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM - NOT

#### **APPLICABLE**

Submit the completed form to: TCEQ IUC Permits Team Radioactive Materials Division MC-233 PO Box 13087 Austin, Texas 78711-3087 512-239-6466

For TCEQ Use Only Reg. No.\_\_\_\_\_ Date Received\_\_\_\_\_ Date Authorized\_\_\_\_\_

#### Item 1. General Information (Instructions Page 99)

#### 1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): <u>Click to enter text.</u> Program ID: <u>Click to enter text.</u> Contact Name: <u>Click to enter text.</u> Phone Number: <u>Click to enter text.</u>

#### 2. Agent/Consultant Contact Information

Contact Name: <u>Click to enter text.</u> Address: <u>Click to enter text.</u> City, State, and Zip Code: <u>Click to enter text.</u> Phone Number: <u>Click to enter text.</u>

#### 3. Owner/Operator Contact Information

☐ Owner ☐ Operator Owner/Operator Name: <u>Click to enter text.</u> Contact Name: <u>Click to enter text.</u> Address: <u>Click to enter text.</u> City, State, and Zip Code: <u>Click to enter text.</u> Phone Number: <u>Click to enter text.</u>

#### 4. Facility Contact Information

Facility Name: <u>Click to enter text.</u>
Address: <u>Click to enter text.</u>
City, State, and Zip Code: <u>Click to enter text.</u>
Location description (if no address is available): <u>Click to enter text.</u>

Facility Contact Person: <u>Click to enter text.</u> Phone Number: <u>Click to enter text.</u>

5. Latitude and Longitude, in degrees-minutes-seconds

Latitude: Click to enter text.

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

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

#### 6. Well Information

Type of Well Construction, select one:

- Vertical Injection
- □ Subsurface Fluid Distribution System
- □ Infiltration Gallery
- □ Temporary Injection Points
- □ Other, Specify: <u>Click to enter text.</u>

Number of Injection Wells: Click to enter text.

#### 7. Purpose

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

#### 8. Water Well Driller/Installer

Water Well Driller/Installer Name: Click to enter text.

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

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

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

### Item 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

#### Down Hole Design Table

Name of	Size	Setting	Sacks Cement/Grout – Slurry	Hole	Weight (lbs/ft)
String		Depth	Volume – Top of Center	Size	PVC/Steel
Casing					

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Center	Hole Size	Weight (lbs/ft) PVC/Steel
Tubing					
Screen					

### Item 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click to enter text.

System(s) Construction: <u>Click to enter text.</u>

### Item 4. Site Hydrogeological and Injection Zone Data

- 1. Name of Contaminated Aquifer: Click to enter text.
- 2. Receiving Formation Name of Injection Zone: Click to enter text.
- 3. Well/Trench Total Depth: <u>Click to enter text.</u>
- 4. Surface Elevation: <u>Click to enter text.</u>
- 5. Depth to Ground Water: <u>Click to enter text.</u>
- 6. Injection Zone Depth: <u>Click to enter text.</u>
- 7. Injection Zone vertically isolated geologically?  $\Box$  Yes  $\Box$  No

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

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

- 8. Attach a list of contaminants and the levels (ppm) in contaminated aquifer as Attachment E.
- 9. Attach the Horizontal and Vertical extent of contamination and injection plume as Attachment F.
- 10. Attach Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc., as Attachment G.
- 11. Injection Fluid Chemistry in PPM at point of injection. Attach as Attachment H.
- 12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: <u>Click to enter text.</u>
- 13. Maximum injection Rate/Volume/Pressure: Click to enter text.
- 14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
- 15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

- 16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): <u>Click to enter text.</u>
- 17. Sampling frequency: <u>Click to enter text.</u>
- 18. Known hazardous components in injection fluid: Click to enter text.

#### Item 5. Site History

- 1. Type of Facility: <u>Click to enter text.</u>
- 2. Contamination Dates: Click to enter text.
- 3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations. Attach as Attachment L.
- 4. Previous Remediation. Attach results of any previous remediation as Attachment M.

**NOTE:** Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

### Item 6. CLASS V INJECTION WELL DESIGNATIONS

- 5A07 Heat Pump/AC return (IW used for groundwater to heat or cool buildings)
- 5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
- 5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
- 5D02 Stormwater Drainage (IW designed for the disposal of rain water)
- 5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
- 5F01 Agricultural Drainage (IW that receive agricultural runoff)
- 5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
- 5S23 Subsidence Control Wells (IW used to control land subsidence caused by groundwater withdrawal)
- 5W09 Untreated Sewage
- 5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
- 5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
- 5W12 WTTP disposal
- 5W20 Industrial Process Waste-disposal Wells
- 5W31 Septic System (Well Disposal method)
- 5W32 Septic System Drainfield Disposal
- 5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, or fill sections of a mine)
- 5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
- 5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)

- 5X27 Other Wells
- 5X28 Motor Vehicle Waste-disposal Wells (IW used to dispose of waste from a motor vehicle site These are currently banned)
- 5X29 Abandoned Drinking Water Wells (waste disposal)

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 10.0: QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY – <u>NOT APPLICABLE</u>

This worksheet **is required** for all applications for individual permits for a municipal solid waste facility or mining facility located within a Water Quality Protection Area in the John Graves Scenic Riverway. **Note: Review 30 TAC §§ 311.71-311.82 thoroughly prior to completing any portion of this worksheet.** 

#### Item 1. Exclusions (Instructions, Page 100)

- a. Is this a municipal solid waste facility?
  - 🗆 Yes 🗆 No
- b. Has this quarry been in operation since January 1, 1994 without cessation of operation for more than 30 consecutive days and under the same ownership?
  - □ Yes □ No
- c. Is this a coal mine?
  - 🗆 Yes 🗆 No
- d. Is this facility mining clay and/or shale for use in manufacturing structural clay products?
  - 🗆 Yes 🗆 No

If **yes** to **any** above question, **stop here**. The facility is required to maintain documentation, as outlined in *30 TAC § 311.72(c)*, at the facility to demonstrate the exclusion(s).

#### Item 2. Location of the Quarry (Instructions, Page 101)

Check the box next to the distance between the quarry and the nearest navigable water body:

 $\square$  < 200 feet  $\square$  200 feet - 1,500 feet  $\square$  1,500 feet - 1 mile  $\square$  > 1 mile

**NOTE:** The construction or operation of any new quarry or expansion of any existing quarry **is prohibited** within 200 feet of any water body located within a Water Quality Protection Area in the John Graves Scenic Riverway.

#### Item 3. Additional Requirements (Instructions, Page 101)

Use the table in the Instructions to determine if additional application requirements apply to the facility based on distance between the quarry and the nearest waterway. Attach as appropriate or enter N/A.

- a. Attach a Restoration Plan: Click to enter text.
- b. Amount of Financial Assurance for Restoration: <u>Click to enter text.</u> Mechanism: <u>Click to enter text.</u>
- c. Attach a Technical Demonstration: Click to enter text.
- d. Attach a Reclamation Plan: Click to enter text.
- e. Amount of Financial Assurance for Reclamation: <u>Click to enter text.</u> Mechanism: <u>Click to enter text.</u>

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 11.0: COOLING WATER SYSTEM INFORMATION – <u>NOT APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications **that meet the conditions outlined in Technical Report 1.0, Item 12.** 

#### Item 1. Cooling Water System Data (Instructions, Page 104)

a. Complete the following table with information regarding the cooling water system.

Parameter	Volume (include units)
Total DIF	
Total AIF	
Intake Flow Use(s) (%)	
Contact cooling	
Non-contact cooling	
Process Wastewater	
Other	

#### **Cooling Water System Data**

- b. Attach the following information:
  - 1. A narrative description of the design and annual operation of the facility's cooling water system and its relationship to the CWIS(s).
  - 2. A scaled map depicting the location of each CWIS, impoundment, intake pipe, and canals, pipes, or waterways used to convey cooling water to, or within, the cooling water system. Provide the latitude and longitude for each CWIS and any intake pipe(s) on the map. Indicate the position of the intake pipe within the water column.
  - 3. A description of water reuse activities, if applicable, reductions in total water withdrawals, if applicable, and the proportion of the source waterbody withdrawn (on a monthly basis).
  - 4. Design and engineering calculations prepared by a qualified professional and data to support the information provided in above item a.
  - 5. Previous year (a minimum of 12 months) of AIF data.
  - 6. A narrative description of existing or proposed impingement and entrainment technologies or operation measures and a summary of their performance, including, but not limited to, reductions in impingement mortality and entrainment due to intake location and reductions in total water withdrawals and usage.

#### Attachment: Click to enter text.

### Item 2. Cooling Water Intake Structure(s) Data (Instructions, Page 105)

a. Complete the following table with information regarding each cooling water intake structure (this includes primary and make-up CWIS(s)).

#### Cooling Water Intake Structure(s) Data

CWIS ID		
DIF (include units)		
AIF (include units)		
Intake Flow Use(s) (%)		
Contact cooling		
Non-contact cooling		
Process Wastewater		
Other		
Latitude (decimal degrees)		
Longitude (decimal degrees)		

- b. Attach the following information regarding the CWIS(s):
  - 1. A narrative description of the configuration of each CWIS, annual and daily operation, including any seasonal changes, and where it is located in the water body and in the water column.
  - 2. Engineering calculations for each CWIS.

Attachment: Click to enter text.

#### Item 3. Source Water Physical Data (Instructions, Page 105)

a. Complete the following table with information regarding the CWIS(s) source waterbody (this includes primary and make-up CWIS(s)).

#### Source Waterbody Data

CWIS ID		
Source Waterbody		
Mean Annual Flow		
Source		

- b. Attach the following information regarding the source waterbody.
  - 1. A narrative description of the source water for each CWIS, including areal dimensions, depths, salinity and temperature regimes, and other documentation that supports this determination of the water body type where each cooling water intake structure is located.

- 2. A narrative description of the source waterbody's hydrological and geomorphological features.
- 3. Scaled drawings showing the physical configuration of all source water bodies used by the facility, including the source waterbody's hydrological and geomorphological features. **NOTE:** The source waterbody's hydrological and geomorphological features may be included on the map submitted for item 1.b.ii of this worksheet.
- 4. A description of the methods used to conduct any physical studies to determine the intake's area of influence within the waterbody and the results of such studies.

Attachment: Click to enter text.

#### Item 4. Operational Status (Instructions, Page 106)

a. Is this application for a power production or steam generation facility?

🗆 Yes 🗆 No

If **no**, proceed to Item 4.b. If **yes**, provide the following information as an attachment:

- 1. Describe the operating status of each individual unit, including age, capacity utilization rate (or equivalent) for the previous five years (a minimum of 60 months), and any seasonal changes in operation.
- 2. Describe any extended or unusual outages or other factors which significantly affect current data for flow, impingement, entrainment.
- 3. Identify any operating unit with a capacity utilization rate of less than 8 percent averaged over a contiguous period of two years (a minimum of 24 months).
- 4. Describe any major upgrades completed within the last 15 years, including but not limited to boiler replacement, condenser replacement, turbine replacement, or changes of fuel type.

#### Attachment: Click to enter text.

- b. Process Units
  - 1. Is this application for a facility which has process units that use cooling water (other than for power production or steam generation)?

□ Yes □ No

If **no**, proceed to Item 4.c. If **yes**, continue.

2. Does the facility use or intend to use reductions in flow or changes in operations to meet the requirements of  $40 \ CFR \ \S \ 125.94(c)$ ?

□ Yes □ No

If **no**, proceed to Item 4.c. If **yes**, attach descriptions of the following information:

- Individual production processes and product lines
- The operating status, including age of each line and seasonal operation
- Any extended or unusual outages that significantly affect current data for flow, impingement, entrainment, or other factors

• Any major upgrades completed within the last 15 years and plans or schedules for decommissioning or replacement of process units or production processes and product lines.

Attachment: Click to enter text.

c. Is this an application for a nuclear power production facility?

□ Yes □ No

If **no**, proceed to Item 4.d. If **yes**, attach a description of completed, approved, or scheduled upgrades and the Nuclear Regulatory Commission relicensing status for each unit at the facility.

Attachment: Click to enter text.

d. Is this an application for a manufacturing facility?

□ Yes □ No

If **no**, proceed to Worksheet 11.1. If **yes**, attach descriptions of current and future production schedules and any plans or schedules for any new units planned within the next five years (a minimum of 60 mos)

Attachment: Click to enter text.

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 11.1: IMPINGEMENT MORTALITY – <u>NOT</u> <u>APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications **that meet the conditions outlined in Technical Report 1.0, Item 12.** Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID: Click to enter text.

### Item 1. Impingement Compliance Technology Selection (Instructions, Page 107)

Check the box next to the method of compliance for the Impingement Mortality Standard selected by the facility.

- Closed-cycle recirculating system(CCRS) [ $40 \ CFR \ \S \ 125.94(c)(1)$ ]
- □ 0.5 ft/s Through-Screen Design Velocity [40 CFR § 125.94(c)(2)] Proceed to Worksheet 11.2
- $\Box$  0.5 ft/s Through Screen Actual Velocity [40 CFR § 125.94(c)(3)]
- Existing offshore velocity cap [ $40 \ CFR \ \S \ 125.94(c)(4)$ ] Proceed to Worksheet 11.2
- □ Modified traveling screens [ $40 \ CFR \ \S \ 125.94(c)(5)$ ]
- $\Box \quad \text{System of technologies } [40 \ CFR \ \S \ 125.94(c)(6)]$
- □ Impingement mortality performance standard [40 CFR § 125.94(c)(7)]
- De minimis rate of impingement [40 CFR § 125.94(c)(11)]
- Low capacity utilization power-generation facilities [40 CFR § 125.94(c)(12)]

If 0.5 ft/s Through-Screen Design Velocity [ $40 \ CFR \ \S \ 125.94(c)(2)$ ] or existing offshore velocity cap [ $40 \ CFR \ \S \ 125.94(c)(4)$ ] was selected, proceed to Worksheet 11.2. Otherwise, continue to Item 2.

### Item 2. Impingement Compliance Technology Information (Instructions, Page 107)

Complete the following sections based on the selection made for item 1 above.

- a. CCRS [40 CFR § 125.94(c)(1)]
  - Check this box to confirm the CWS meets the definition of CCRS located at  $40 \ CFR \ S$  125.91(c) and provide a response to the following questions.
  - 1. Does the facility use or propose to use a CWIS to replenish water losses to the CWS?

🗆 Yes 🗆 No

If **no**, proceed to item a.2. If **yes**, provide the following information as an attachment and continue.

- CWIS ID
- 12 months of intake flow data for any CWIS used for make-up intake flows to replenish cooling water losses, excluding intakes for losses due to blowdown, drift, or evaporation.

• A narrative description of any physical or operational measures taken to minimize make-up withdraws.

#### Attachment: Click to enter text.

**NOTE:** Do not complete a separate Worksheet 11.1 for a make-up CWIS.

- 2. Does the facility use or propose to use cooling towers?
  - □ Yes □ No

If **no**, proceed to Worksheet 11.2. If **yes**, provide the following information and proceed to Worksheet 11.2.

• Average number of cycles of concentration (COCs) prior to blowdown:

#### Average COCs Prior to Blowdown

Cooling Tower ID		
COCs		

- Attach COC monitoring data for each cooling tower from the previous year (a minimum of 12 months): <u>Click to enter text.</u>
- Maximum number of COCs each cooling tower can accomplish based on design of the system.

#### Calculated COCs Prior to Blowdown

Cooling Tower ID		
COCs		

- Describe conditions that may limit the number of COCs prior to blowdown, if any, including but not limited to permit conditions: <u>Click to enter text.</u>
- b. 0.5 ft/s Through Screen Actual Velocity [40 CFR § 125.94(c)(3)]

Provide daily intake flow measurement monitoring data from the previous year (a minimum of 12 months) as an attachment and proceed to Worksheet 11.2.

Attachment: Click to enter text.

c. Modified traveling screens [40 CFR § 125.94(c)(5)]

Provide the following information as an attachment and proceed to Worksheet 11.2.

- 1. A description of the modified traveling screens and associated equipment.
- 2. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods
- 3. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: Click to enter text.

d. System of technologies [40 *CFR* § 125.94(*c*)(6)] or impingement mortality performance standard [40 *CFR* § 125.94(*c*)(7)]

Provide the following information as an attachment and proceed to Worksheet 11.2.

1. A description of the system of technologies used or proposed for use by the facility to

achieve compliance with the impingement mortality standard.

- 2. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods.
- 3. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: Click to enter text.

e. De minimis rate of impingement [40 CFR § 125.94(c)(11)]

Provide the following information and proceed to Worksheet 11.2.

1. Attach monitoring data from the previous year (a minimum of 12 months) of intake flow measured at a frequency of 1/day on days of operation.

Attachment: Click to enter text.

2. If the rate of impingement caused by the CWIS is extremely low (at an organism or ageone equivalent count), attach supplemental information to Worksheet 11.0, item 1.b.6. to support this determination.

Attachment: Click to enter text.

f. Low capacity utilization power-generation facilities [40 CFR § 125.94(c)(12)]

Attach monthly utilization data from the previous 2 years (a minimum of 24 months) for each operating unit and proceed to Worksheet 11.2.

Attachment: Click to enter text.

### INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 11.2: SOURCE WATER BIOLOGICAL DATA – <u>NOT</u> <u>APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** source waterbody of a CWIS for which a facility has selected an Impingement Mortality Technology Option described at  $40 \ CFR \ SS \ 125.94(c)(1)$ -(7).

Name of source waterbody: <u>Click to enter text.</u>

#### Item 1. Species Management (Instructions, Page 109)

a. The facility has obtained an incidental take permit for its cooling water intake structure(s) from the USFWS or the NMFS.

🗆 Yes 🗆 No

If yes, attach any information submitted in order to obtain that permit, which may be used to supplement the permit application information requirements of paragraph *40 CFR § 125.95(f)*.

#### Attachment: Click to enter text.

- b. Is the facility requesting a waiver from application requirements at 40 CFR § 122.21(r)(4) in accordance with 40 CFR § 125.95 for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent?
  - 🗆 Yes 🗆 No

If yes, attach a copy of the most recent managed fisheries report to TPWD, or equivalent.

Attachment: Click to enter text.

- c. There are no federally listed threatened or endangered species or critical habitat designations within the source water body.
  - $\Box$  True  $\Box$  False

#### Item 2. Source Water Biological Data (Instructions, Page 109)

New Facilities (Phase I, Track I and II)

• Provide responses to all items in this section and stop.

Existing Facilities (Phase II)

- If the answer to **1.b.** above was **no**, provide responses to all items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **true**, do not complete any items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **false**, attach a response for any item in this section that is not contained within the most recent TPWD, or equivalent and proceed to Worksheet 11.3.
#### Attachment: Click to enter text.

- a. A list of the data requested at *40 CFR § 122.21(r)(4)(ii)* through *(vi)* that are not available, and efforts made to identify sources of the data.
- b. Provide a list of species (or relevant taxa) in the vicinity of the CWIS and identify the following information regarding each species listed.
  - all life stages and their relative abundance,
  - identification of all species and life stages that would be most susceptible to impingement and entrainment,
  - forage base,
  - significance to commercial fisheries,
  - significance to recreational fisheries,
  - primary period of reproduction,
  - larval recruitment, and
  - period of peak abundance for relevant taxa.
- c. Data representative of the seasonal and daily activities (e.g., feeding and water column migration) of biological organisms in the vicinity of the CWIS(s).
- d. Identify all threatened, endangered, and other protected species that might be susceptible to impingement and entrainment at the CWIS(s).
- e. Documentation of any public participation or consultation with federal or state agencies undertaken.

The following is required for existing facilities only. Include the following information with the above listed attachment.

- f. Identify any protective measures and stabilization activities that have been implemented and provide a description of how these measures and activities affected the baseline water condition in the vicinity of the intake.
- g. A list of fragile species, as defined at *40 CFR § 125.92(m)*, at the facility. The applicant need only identify those species not already identified as fragile at *40 CFR § 125.92(m)*.

**NOTE:** New units at an existing facility are not required to resubmit this information if the cooling water withdrawals for the operation of the new unit are from an existing intake.

## INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 11.3: ENTRAINMENT – <u>NOT APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID: Click to enter text.

## Item 1. Applicability (Instructions, Page 111)

Is the AIF of the CWIS identified above greater than, or equal to, 125 MGD?

- □ Yes □ No
- If **no** or the facility has selected **CCRS** [40 *CFR* § 125.94(*c*)(1)] for the impingement mortality compliance method, complete Item 2 and stop here.
- If **yes** and the facility is **seeking a waiver** from application requirements in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent, complete item 2 and stop.
- If **yes** and the facility is **not seeking a waiver** from application requirements in accordance *with 40 CFR § 125.95*, complete item 2 and provide any required and completed studies listed in item 3. For any required studies in item 3 that are not complete, provide a detailed explanation for the delay and an anticipated schedule for completion and submittal.

## Item 2. Existing Entrainment Performance Studies (Instructions, Page 111)

Attach any previously conducted studies or studies obtained from other facilities addressing technology efficacy, through-facility entrainment survival, and other entrainment studies.

Attachment: Click to enter text.

## Item 3. Facility Entrainment Performance Studies (Instructions, Page 111)

- a. Attach an entrainment characterization study, as described at 40 *CFR* § 122.21(*r*)(9): <u>Click</u> to enter text.
- b. Attach a comprehensive feasibility study, as described as 40 *CFR* § 122.21(*r*)(10): <u>Click to</u> <u>enter text.</u>
- c. Attach a benefits valuation study, as described as *40 CFR § 122.21(r)(11)*: Click to enter text.
- d. Attach a non-water quality environmental and other impacts study, as described as *40 CFR* § *122.21(r)(12)*: <u>Click to enter text.</u>
- e. Attach a peer review analysis, as described as 40 CFR § 122.21(r)(13): Click to enter text.

## INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 12.0: OIL AND GAS EXPLORATION, DEVELOPMENT, AND PRODUCTION WASTEWATER DISCHARGES – <u>NOT APPLICABLE</u>

This worksheet **is required** for all TPDES permit applications that are subject to Effluent Limitation Guidelines in 40 CFR Part 435.

## Item 1. Operational Information (Instructions, Page 112)

- a. Is the wastewater from an oil and gas exploration, development, or production facility located west of the 98th meridian?
  - □ Yes □ No

If yes, continue to the next question. If no, skip to Item 2 relating to Production/Process Data.

b. Provide justification for how the wastewater is/will be used for agriculture or wildlife propagation.

Click to enter text.

## Item 2. Production/Process Data (Instructions, Page 112)

**a.** Provide the applicable 40 CFR Part 435 Subpart(s).

Click to enter text.

b. Describe if the permit being sought is for discharges from exploration, development, production, or for a combination of more than one of those activities.

Click to enter text.

c. Provide information on all waste-streams generated and specify which waste-streams you are requesting to be authorized for discharge.

#### Wastestreams Generated

Wastestream	Requesting authorization to discharge? (Yes/No)	Volume (MGD)	% of Total Flow

**d.** Describe how the facility will manage wastestreams for which discharge authorization is not being sought.

Click to enter text.

#### Attachment: Click to enter text.

e. Provide information on miscellaneous discharges.

Click to enter text.

Attachment: Click to enter text.

f. List of chemicals that are in use, or will be used, downhole. Provide the category, concentration used/to be used, and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

#### **Chemicals List**

Category	Chemical Name	Concentration (include units)	Purpose

Attachment: Click to enter text.

g. List of chemicals that are in use, or will be used, to treat the wastewater to be discharged under this authorization. Provide the concentration used/to be used and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Category	Chemical Name	Concentration (include units)	Purpose

Water Treatment Chemicals List

Attachment: Click to enter text.

## Item 3. Pollutant Analysis (Instructions, Page 113)

Tables 1, 2, 6, and 7 located in Worksheet 2.0 are required. In addition, Table 19 below is required and must be completed for each outfall and submitted with this application. The remaining tables in Worksheet 2.0, are required as applicable.

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

Table 19 for Outfall No.:Click to enter text.Samples are (check one):CompositeGrab

Pollutant	Sample 1 (mg/L)*	Sample 2 (mg/L)*	Sample 3 (mg/L)*	Sample 4 (mg/L)*
Calcium				
Potassium				
Sodium				

\*Indicate units if different from mg/L.

## ATTACHMENT:

# PERMIT SUPPLEMENTAL

#### WORKSHEET 2.0 - ITEM 1c

Laboratory Information:

Enthalpy Analytical

2525 West Bellfort, Suite 175

Houston, TX 77054

713-666-0020

Pollutants Analyzed: Total Organic Nitrogen, Alkalinity, Ammonia, Chloride, Fluoride, Nitrate, Sulfate, Biochemical Oxygen Demand, Carbonaceous BOD, Chemical Oxygen Demand, Total Cyanide, Oil and Grease, Total Organic Carbon, Total Phosphorus, Total Dissolved Solids, Total Suspended Solids, Hexavalent Chromium, Trivalent Chromium, Dissolved Aluminum, Total Aluminum, Total Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Lead, Total Nickel, Total Selenium, Total Silver, Total Thallium, Total Zinc, Total Boron, Total Iron, Total Magnesium, Total Manganese, Color

**BASF Wastewater Compliance Lab** 

602 Copper Road

Freeport, TX 77541

917-415-6950

Pollutants Analyzed: Dissolved Oxygen, Temperature, Total Residual Chlorine, pH

#### WORKSHEET 7.0 – ITEM 4c

The facility is an anhydrous ammonia terminal that includes ammonia storage tanks, loading/unloading facilities for barges and ocean vessels and a pipeline distribution system. The only raw material at the facility is anhydrous ammonia, no other intermediates or final products are handled or stored in areas exposed to precipitation.

#### WORKSHEET 7.0 – ITEM 4d

The ammonia is transferred from the BASF Freeport Site Ammonia Production Plant via pipeline to the Harbor Terminal storage tanks. Anhydrous ammonia can either be loaded or offloaded from the ship at the dock and transferred to a storage tank at the facility. The Terminal has three refrigeration compressors, and each compressor contains 1650 gallons of lube oil.

#### WORKSHEET 7.0 - ITEM 6

Total stormwater flow measurements were determined by combining the sum the total discharge time for each of the two pumps (150/1500 gpm) multiplied by the respective pump flow rating.

Date(s) of storm event	Duration of storm event (min)	Total rainfall during storm event (in)	Hours between storm events (hrs)	Max flow rate during storm event (gpm)	Total stormwater flow from event (gallons)
10/4/23 to 10/6/23	3329	7.09	384	1650	1,085,850
11/16/23 to 11/17/23	1692	1.94	696	1650	1,057,800
1/3/24 to 1/4/24	1417	1.49	192	1650	2,338,050
1/25/24 to 1/27/24	2871	5.22	384	1650	1,048,050
2/5/2024 to 2/6/24	1696	2.1	144	1650	1,170,900

## <u>ATTACHMENT:</u> SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

TCEQ USE ONLY:									
Application type:RenewalMajor 4	Amendment <u>Minor Amendment</u> New								
County: Segment Number:									
Admin Complete Date:									
Agency Receiving SPIF:									
Texas Historical Commission	U.S. Fish and Wildlife								
Texas Parks and Wildlife Departmen	t U.S. Army Corps of Engineers								

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

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

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

The following applies to all applications:

1. Permittee: <u>BASF Corporation</u>

Permit No. WQ00 <u>02656000</u>

EPA ID No. TX <u>0095605</u>

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

<u>1451 Navigation Blvd., Freeport, TX 77541 – East of FM 1495 and approximately 1,000 ft</u> south of intersection of FM 1495 and State Highway 288.

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

Prefix (Mr., Ms., Miss): <u>Ms</u>	
First and Last Name: <u>Yasuko Dodd</u>	
Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>	
Title: <u>Sr. Environmental Specialist</u>	
Mailing Address: <u>602 Copper Road</u>	
City, State, Zip Code: <u>Freeport, TX, 77541</u>	
Phone No.: <u>979-415-6952</u> Ext.:	Fax No.:
E-mail Address: <u>yasuko.dodd@basf.com</u>	

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

An unnamed ditch; thence via culvert to a roadside ditch along FM 1495; thence via culvert to a roadside ditch along Levee Road; thence via culvert to Bryan Lake; thence to a tidal tributary; thence to the Intracoastal Waterway; thence to the Brazos River Tidal Segment No. 1201 of the Brazos 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):

<u>N/A.</u>

N/A

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. <u>List construction dates of all buildings and structures on the property:</u>

4. Provide a brief history of the property, and name of the architect/builder, if known. <u>N/A</u>

## ATTACHMENT: SPIF Map



## ATTACHMENT: CORE DATA FORM



# **TCEQ Core Data Form**

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

### **SECTION I: General Information**

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)								
New Permit, Registration or Authorization ( <i>Core Data Form should be submitted with the program application.</i> )								
Renewal (Core Data Form should be submitted with the	Other							
2. Customer Reference Number (if issued)	Follow this link to search	3. Regulated Entity Reference Number (if issued)						
CN 600124895	<u>Central Registry**</u>	RN 101619690						

## **SECTION II: Customer Information**

4. General Customer Information         5. Effective Date for Customer Information Updates (mm/dd/yyyy)         N/A								N/A					
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 Texa	s Comptro	ller of I	Public Accou	nts (CPA).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer below:													
BASF Corporation													
7. TX SOS/CP	A Filing Nu	umber		8. TX State	<b>e Tax ID</b> (11 d	igits)			9. Fe	deral Tax I	D	10. DUNS I	Number (if
0042005406				116109080	94				(9 dig	its)		applicable)	
									16109	90809		008081697	
11. Type of C	ustomer:		Corporat	ion				🗌 Individ	dual Partnership: 🗌 G		ership: 🗌 Gen	eral 🗌 Limited	
Government:	🗌 City 🔲 C	County [	Federal	Local 🗌 Stat	te 🗌 Other			Sole Pr	oprieto	orship	🗌 Otl	her:	
12. Number o	of Employe	ees							13. lı	ndepender	ntly Ow	ned and Ope	erated?
0-20	21-100	101-2	50 🗌 251-	500 🛛 50	1 and higher			🛛 Yes 🗌 No					
14. Customer	r <b>Role</b> (Prop	oosed or	Actual) – as it	t relates to th	e Regulated Ei	ntity list	ed on	n this form. I	Please d	check one of	the follo	owing	
Owner Occupationa	al Licensee	Dpe Ope	erator esponsible Par	rty 🗌	)wner & Opera ] VCP/BSA App	ator olicant				Other:			
15. Mailing	BASF Corp	ooration											
Adda	602 Copp	er Road											
Address:     City     Freeport     State					ТХ		ZIP	7754:	1		ZIP + 4		
16. Country N	Mailing Inf	ormatio	<b>on</b> (if outside	USA)		•	17.	. E-Mail Ac	ldress	(if applicabl	e)		
18. Telephone Number				19. Extensio	on or C	ode			20. Fax N	umber	(if applicable)		

## **SECTION III: Regulated Entity Information**

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)								
New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information								
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).								
22. Regulated Entity Nan	<b>ne</b> (Enter name	e of the site where the	regulated action	n is taking pl	ace.)			
BASF Freeport Harbor Termi	nal							
23. Street Address of the Regulated Entity:								
(No PO Boxes)		[						
	City	Freeport	State	ТХ	ZIP	77541	ZIP + 4	
24. County	Brazoria							
If no Street Address is provided, fields 25-28 are required.								

25. Description to Physical Location:	East of FM 1495, 0.3 miles south of Highway 288, Freeport, Texas								
26. Nearest City						State		Nea	rest ZIP Code
Freeport						ТХ		7754	1
Latitude/Longitude are re used to supply coordinate	equired and es where no	may be addea ne have been p	l/updated to meet provided or to gain	TCEQ Core accuracy).	Data Standa	rds. (Geoco	oding of the	e Physical	Address may be
27. Latitude (N) In Decimal:         28.935833 N         28. Longitude (W) In Decimal:         95.339166 W									6 W
Degrees	Minutes		Seconds	Degr	rees	Mi	nutes		Seconds
28		56	9		95		20		21
29. Primary SIC Code30. Secondary SIC Code31. Primary NAICS Code32. Secondary NAICS Code(4 digits)(4 digits)(5 or 6 digits)(5 or 6 digits)								CS Code	
5169	Nor	e		424690	690 None				
33. What is the Primary E	Business of t	his entity? (D	Do not repeat the SIC o	r NAICS desc	cription.)				
Ammonia Storage Terminal									
	BASF Corp	oration							
Address:	602 Coppe	er Road							
	City	Freeport	State	тх	ZIP	77541		ZIP + 4	
35. E-Mail Address:						•			
36. Telephone Number			37. Extension or	Code	38. Fa	ax Number	(if applicabl	le)	
( 979 ) 415-6100					(	) -			

**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
				IHW SWR#82566
				TX000195966
Municipal Solid Waste	New Source Review Air		Petroleum Storage Tank	PWS
	9329A		71538	
Sludge	Storm Water	Title V Air	Tires	Used Oil
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:
	TPDES WQ0002656000			

### **SECTION IV: Preparer Information**

40. Name:	Yasuko Dodd			41. Title:	Sr. Environmental Specialist	
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address	
( 979 ) 415-695	2		( ) -	yasuko.dod	d@basf.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:	BASF Corporation	Senior Vice President -	or Vice President - General Manager Freeport Site		
Name (In Print):	Bradley Morrison			( 979 ) 415- <b>6111</b>	
Signature:	Rass	Date:	03-11-24		

## ATTACHMENT:

## PLAIN LANGUAGE SUMMARY (SPANISH)

## Plan Language Summary Template (TCEQ Form 20972) Industrial Wastewater Permit Renewal Application for TPDES WQ0002656000 March 2024

#### **English Version**

#### 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.

BASF Corporation (CN600124895) operates the BASF Freeport Harbor Terminal (RN101619690), an anhydrous ammonia storage terminal for loading/unloading via vessel or barge in Brazos Harbor. The facility is located at 1451 Navigation Blvd, in Freeport, Brazoria County, Texas 77541. This application is for renewal of the TPDES permit (WQ0002656000) covering intermittent discharges of stormwater and allowable non-stormwater sources.

Discharges from the facility are not subject to federal effluent limitation guidelines. No process wastewater is generated at this facility and the stormwater and allowable non-stormwater sources are expected to contain Total Suspended Solids (TSS), Sulfate (S04), Chloride (CI), and Total Aluminum (AI). Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. Discharged waters consisting of stormwater, hydrostatic test water, fire protection water, atmospheric condensate, and equipment washdown are treated by retention in a stormwater holding pond prior to discharge.

## Plan Language Summary Template (TCEQ Form 20972) Industrial Wastewater Permit Renewal Application for TPDES WQ0002656000 March 2024

#### Español Versión

#### Aplicación de Aguas Residuales Industriales

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.

BASF Corporation (CN600124895) opera la terminal del puerto BASF Freeport (RN101619690), una terminal de almacenamiento de amoníaco anhidro para carga/descarga mediante buque o barcaza en el puerto de Brazos. La instalación está ubicada en 1451 Navigation Blvd, en Freeport, Condado de Brazoria, Texas 77541. Esta solicitud es para la renovación del permiso TPDES (WQ0002656000) que cubre descargas intermitentes de aguas pluviales y fuentes permitidas no pluviales.

Las descargas de la instalación no están sujetas a las pautas federales de limitación de efluentes. No se generan aguas residuales de proceso en esta instalación y se espera que las aguas pluviales y las fuentes no pluviales permitidas contengan sólidos suspendidos totales (TSS), sulfato (SO4), cloruro (CI) y aluminio total (AI). Se incluyen contaminantes potenciales adicionales en el Informe técnico de aplicación de aguas residuales industriales, Hoja de trabajo 2.0. Las aguas descargadas que consisten en aguas pluviales, agua de prueba hidrostática, agua de protección contra incendios, condensado atmosférico y lavado de equipos se tratan reteniéndolas en un estanque de retención de aguas pluviales antes de la descarga.

## ATTACHMENT: USGS MAP



## ATTACHMENT: FACILITY MAP



## ATTACHMENT: FLOW SCHEMATIC WITH WATER BALANCE

### BASF Freeport Harbor Terminal Flow Schematic and Water Balance (March 2024)



## ATTACHMENT: SDS (COMPRESSOR OIL)



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## Mycold AB 68

### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
Product Identity	Mycold AB 68		
Alternate Names	Mycold AB 68		
1.2. Relevant identified uses of the substance or mix	ture and uses advised against		
Intended use	Lubricant		
Application Method	See Technical Data Sheet.		
1.3. Details of the supplier of the safety data sheet			
Company Name	Mayekawa USA, Inc.		
	130 Smart Park Drive		
	Lebanon, TN 37090		
Emergency			
CHEMTREC (USA)	(800) 424-9300		
24 hour Emergency Telephone No.	(800) 424-9300 (CHEMTREC) +1 202-366-4488 (outside the USA).		
Customer Service:	615-773-2859		

2. Hazard identification of the product

#### 2.1. Classification of the substance or mixture

No applicable GHS categories.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]: No GHS prevention statements [Response]: No GHS response statements [Storage]: No GHS storage statements [Disposal]: No GHS disposal statements

## 3. Composition/information on ingredients



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## Mycold AB 68

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Benzene, C14-30-alkyl derivs. CAS Number: 0068855-24-3	100	Not Classified	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance. \*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

4.1. Description	of first aid measures
General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
4.2. Most importa	ant symptoms and effects, both acute and delayed
Overview	No specific symptom data available. See section 2 for further details.

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray. Do not use; water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.



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## Mycold AB 68

#### 5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

#### ERG Guide No.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

### 8. Exposure controls and personal protection



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## Mycold AB 68

#### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0068855-24-3	Benzene, C14-30-alkyl derivs.	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

#### Carcinogen Data

CAS No.	Ingredient	Source	Value
0068855-24-3	Benzene, C14-30-alkyl derivs.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls	
Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended.
Skin	Wear overalls to keep skin contact to a minimum.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
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See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

Appearance	CLEAR, COLORLESS TO PALE YELLOW OR AMBER Liquid
Odor	Characteristic
Odor threshold	Not Measured
рН	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	315°C
Flash Point	176°C (349°F)



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Evaporation rate (Ether = 1) Flammability (solid, gas) Upper/lower flammability or explosive limits

Vapor pressure (Pa) Vapor Density Specific Gravity Solubility in Water Partition coefficient n-octanol/water (Log Kow) Auto-ignition temperature Decomposition temperature Viscosity (cSt) @ 40 °C Density @20°C (g/cm3) Pour point 9.2. Other information No other relevant information. Not Measured Not Applicable Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured < 0.013 kPa (0.1 mm Hg) at 20°C > 1 (air=1) heavier than air Not Measured Insoluble in cold water, hot water Not Measured Not Measured Not Measured 53 cSt at 40°C 0.867 -42°C (-44°F)

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## 10. Stability and reactivity

#### 10.1. Reactivity

Hazardous Polymerization will not occur.
10.2. Chemical stability
Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
No data available.
10.5. Incompatible materials
No data available.
10.6. Hazardous decomposition product

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## 11. Toxicological information

#### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
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Benzene, C14-30-alkyl derivs (68855-24-3)	No data				
	available	available	available	available	available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

## **12. Ecological information**

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data. Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
Benzene, C14-30-alkyl derivs (68855-24-3)	Not Available	Not Available	Not Available

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment



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## Mycold AB 68

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No data available.

### 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information					
	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA		
14.1. UN number	Not Applicable	Not Regulated	Not Regulated		
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated		
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable		
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable		
14.5. Environmental hazards					
IMDG Mari	ine Pollutant: No				
14.6. Special precautions f	for user				

No further information

### 15. Regulatory information

Regulatory Overview
 The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All components of this material are either listed or exempt from listing on the TSCA Inventory.
 WHMIS Classification
 Not Regulated

US EPA Tier II Hazards Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): No Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

(No Product Ingredients Listed)
Safety Data Sheet

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- EPCRA 302 Extremely Hazardous : (No Product Ingredients Listed)
- EPCRA 313 Toxic Chemicals: (No Product Ingredients Listed)
- Proposition 65 Carcinogens (>0.0%): (No Product Ingredients Listed)
- Proposition 65 Developmental Toxins (>0.0%): (No Product Ingredients Listed)
- Proposition 65 Female Repro Toxins (>0.0%): (No Product Ingredients Listed)
- Proposition 65 Male Repro Toxins (>0.0%): (No Product Ingredients Listed)
- N.J. RTK Substances (>1%) : (No Product Ingredients Listed)
- Penn RTK Substances (>1%) : (No Product Ingredients Listed)

#### **16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

## This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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## <u>ATTACHMENT:</u> <u>BASF Freeport Harbor Ammonia Terminal</u> <u>Aluminum Site-Assessment Study</u>



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#### **TECHNICAL MEMORANDUM NO. 19-131.01**

PREPARED FOR:	BASF Corporation – Freeport, Texas Facility		
PREPARED BY:	V. Cody Hale, Ph.D., PH Principal, Senior Scientist	Krisha Whiting Staff Scientist	
DATE:	July 2, 2021		
SUBJECT:	Results of Aluminum Site-Assessment Study Conducted at BASF Freeport Harbor Ammonia Terminal		

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- Figure 4. BASF Freeport Harbor Ammonia Terminal sampling location.

#### **EXECUTIVE SUMMARY**

In July 2020, Texas Commission for Environmental Quality approved a Total Aluminum Site-Assessment Plan ("SAP") prepared on behalf of BASF Corporation to investigate the source and characteristics of aluminum present in stormwater discharges from Outfall 001 at the BASF Freeport Harbor Ammonia Terminal, Texas facility ("Ammonia Terminal"). The SAP was implemented, and this report presents the findings.

The SAP utilized a phased sampling approach to meet the requirements set forth in the TPDES permit. The first phase focused on discharge events from Outfall 001 where samples were obtained for dissolved aluminum and total recoverable aluminum analysis. A more rigorous second sampling phase was designed to be triggered if dissolved aluminum was found to constitute a significant (>50%) percentage of total aluminum during this first phase. Phase 2 sampling was not triggered.

Results from the completed water quality investigation demonstrate that, by far, the dominant form of aluminum in effluent discharged from the Freeport Harbor Ammonia Terminal is the particulate, non-bioavailable form. Additionally, the data demonstrate that the source of aluminum is from stormwater that interacts with local aluminum-bearing soils rather than industrial process water or wastewater (which are not present), operations, or other anthropogenic sources at the Freeport Harbor Ammonia Terminal. These findings establish that Outfall 001 meets the criteria outlined by TCEQ guidance for removal of aluminum limits from TDPES permits. Thus, we recommend that the aluminum monitoring requirement in the Ammonia Terminal's current TPDES permit be removed at the next renewal.

#### **1.0 INTRODUCTION**

In December 2019, Nutter & Associates ("NAI") developed a Total Aluminum Site-Assessment Plan<sup>1</sup> ("SAP") on behalf of BASF Corporation to investigate the source and characteristics of aluminum present in stormwater discharges from Outfall 001 at the BASF Freeport Harbor Ammonia Terminal, Texas facility ("Ammonia Terminal"). The SAP was approved by Mr. Michael Redda of the Texas Commission for Environmental Quality ("TCEQ") Industrial Permits Team by email on 13 July 2020. The SAP was implemented, and this report presents the findings.

Discharges from Outfall 001 are authorized under Texas Commission for Environmental Quality ("TCEQ") Texas Pollution Discharge Elimination System ("TPDES") Permit Number WQ0002656000. The Ammonia Terminal site includes two refrigerated ammonia storage tanks, transfer facilities for barges and oceanic vessels, and associated pipeline distribution infrastructure. There are no chemical production activities or industrial process wastewater treatment plants located at this facility.

#### 1.1 Background

On September 17, 2019, TCEQ renewed and updated the BASF Freeport Harbor Ammonia Terminal TPDES permit, requiring additional quarterly monitoring and reporting of dissolved and total aluminum concentrations in the Outfall 001 discharge as well as the development and implementation of a total aluminum site-assessment plan. The permit authorizes the discharge of stormwater and utility wastewater<sup>†</sup>. Utility wastewater for this site includes hydrostatic test water, fire protection water, atmospheric condensate from refrigerant systems, and washdown from operational areas. Discharge events are intermittent and largely dependent upon precipitation. Waters discharged from Outfall 001 do not come into contact with industrial processes or process wastewater.

The TCEQ *Procedures to Implement the Texas Surface Water Quality Standards*<sup>2</sup> acknowledges that aluminum often occurs naturally in stormwater discharges solely due to location. Requests to TCEQ to reconsider the need for aluminum limits and continual monitoring efforts may be made if the permittee can clearly demonstrate that:

<sup>&</sup>lt;sup>+</sup> According to the permit, Utility Wastewater "includes, but is not limited to, cooling tower blowdown, boiler blowdown, fire protection water, river water, clarified river water, hydrostatic test water, DI water, boiler feed water, steam and condensate, potable water, atmospheric condensation, lawn watering and similar irrigation drainage, water from external washing of buildings and pavement without detergents, and groundwater from wells."

- Aluminum is not used in the facility's process or added to wastewater streams
- Samples collected from stormwater discharges demonstrate that stormwater alone is responsible for aluminum levels in comingled discharge waters
- A determination of the ratio of dissolved aluminum to total recoverable aluminum is performed

A previous aluminum study by BASF and NAI covering a TPDES permitted chemical production facility approximately 6.5 miles northwest of the terminal demonstrated that over 95% of the total recoverable aluminum in stormwater discharges is present in a particulate form that is likely sourced from coming into contact with onsite aluminum-bearing soils and/or eolian deposits from off-site<sup>3</sup>.

#### 1.2 Study Objectives

This Total Aluminum Site Assessment Study was performed to investigate the potential on-site sources of total aluminum present in waters discharged at Outfall 001. The SAP addressed the following components outlined in Items 1.A through 1.C under "Other Requirements" of the current TPDES permit:

- A. Analytical testing of the non-stormwater contributing sources (hydrostatic test water, fire protection water, atmospheric condensate from refrigeration systems, and washdown from equipment area) for total aluminum and dissolved aluminum to demonstrate which waste streams are and are not potential contributing sources of aluminum.
- B. A site audit of the drainage areas of Outfall 001 to identify the possible sources for total aluminum present in the effluent.
- C. Analytical testing of surface-drainage areas of Outfall 001 for total aluminum and dissolved aluminum to demonstrate which areas of the facility are and are not potential contributing sources for total aluminum in stormwater drainage from the facility.

#### 2.0 SITE DESCRIPTION

The BASF Freeport Harbor Ammonia Terminal is located in Brazoria County, TX (Figure 1). The terminal is approximately 1.5 miles inland from the Gulf of Mexico and is situated along the industrialized Brazos Harbor. The site is generally bounded to the north by the Brazos Harbor,

to the east and south by other chemical storage facilities, and to the west by undeveloped lots primarily used for vehicle parking and equipment laydown. Due to its proximity to the Freeport Harbor channel and the Gulf of Mexico, the primary waterways in the vicinity of the terminal are subject to tidal fluctuations and freshwater/marine mixing. The Velasco Drainage District levee system protects the terminal site from flooding.

The facility is underlain by Pleistocene Beaumont Formation and Holocene alluvium from the Brazos River system<sup>4</sup>. Site soils primarily consist of fine, smectitic clays (Figure 2) of the mollisol soil order and are mapped in the USDA Soil Survey Geographic database as Velasco clay. Smectitic soils have a very fine texture, with individual clay grains on the order of 0.001  $\mu$ m thick, 0.330  $\mu$ m long, and 0.250  $\mu$ m wide<sup>5</sup>.

The climate for the Freeport, TX region is classified under the Köppen climate classification system as humid subtropical (Cfa) and is largely characterized by hot, humid summers and mildly cold winters. Freeport receives an average of 49.7 inches of rainfall per year, with continuous year-round precipitation punctuated by peaks in the early fall and winter<sup>6</sup>.

The terminal facility study area drained by Outfall 001 is primarily comprised of two large anhydrous ammonia storage tanks, supporting pipeline and building structures, and a stormwater containment and treatment (sedimentation) area. A series of ditches adjacent to the developed storage tank zones convey water to the stormwater containment area (Figure 3). Water discharged from Outfall 001 follows a series of roadside ditches and drainage features that ultimately flow into Bryan Lake.

A site-specific flow and water balance schematic representing the approximate source and volume of potential discharged waters from Outfall 001 was developed by BASF as part of the TPDES permit renewal application<sup>7</sup>. The facility draws on average 41,670 gal/month from the municipal water supply.

Stormwater runoff from precipitation is variable, but makes up the majority of the water that is discharged from Outfall 001. Discharge events do not necessarily occur during each precipitation period or storm. Precipitation runoff can be held and contained within the stormwater containment area for further stormwater accumulation prior to initiating a discharge from Outfall 001.

Equipment washdown occurs weekly at the facility, utilizing on average 18,750 gal/month from the municipal water supply. Washdown utility wastewater drains to the containment area, but is of low enough relative volume to not initiate a pumping discharge event from Outfall 001 in the absence of significant precipitation.

Hydrostatic testing of the loading arms at the terminal dock and the pipes that convey the ammonia from the storage tanks to the dock is conducted once per year. The volume of water is small as only enough liquid to fill the pipes and loading arms is required. The water source is municipal water from the City of Freeport. Small quantities of residual ammonia is the only chemical that the water could be exposed to during the testing procedure and protocols are in place to ensure ammonia levels are below the TPDES permit limitations prior to discharging.

The fire water protection water is flushed on a monthly basis to ensure the system is working properly. The source of the water is municipal water from the City of Freeport and flushed water drains to the containment area.

Atmospheric condensate from refrigeration equipment is not quantified in the water balance, but represents an extremely small fraction of the overall total. The condensate drips from the tanks and is then collected via the site drainage network and routed to the containment area.

Domestic sewage and wastewater utilized in administrative buildings is not commingled with stormwater or utility wastewater and is not discharged to the containment area or otherwise through Outfall 001.

On-site raw chemical materials handled at the terminal facility as stated in the TPDES permit renewal application are summarized in the SAP. This list does not contain any aluminum bearing reagents or chemicals.

Dr. Cody Hale of NAI performed a site audit and investigative assessment on 19 November 2019 pursuant to requirement 1.B in the "Other Requirements" section of the current TPDES permit. Dr. Hale was accompanied by Yasuko Dodd, Brittany Cannon, and Jessica Piper of BASF and Steve McCartney, the Terminal Manager of the Harbor Terminal. The site audit was comprised of a walking tour. The BASF team provided details on the sources of stormwater and utility wastewater that the Outfall 001 discharge can be comprised of during the tour. The site audit confirmed that there were no sources of aluminum other than the native soil in the containment/treatment pond on the south side of the facility.

#### 3.0 CONCEPTUAL APPROACH

The TCEQ-approved SAP for this investigation was formulated based on site-specific information. Specifically:

- Aluminum bearing chemicals and processing reagents are absent in the operational scope of the terminal, which primarily serves as a bulk ammonia storage and transfer facility;
- Stormwater runoff constitutes the majority of water volume that is discharged at Outfall 001, with minor volumetric comingling of utility wastewaters that also lack exposure to aluminum-bearing chemicals;
- 3. The site is situated in an area with a high percentage of finely textured, aluminum-bearing clays in the topsoil and subsoil;
- 4. A prior aluminum study from another BASF facility in local proximity to the terminal indicates that the vast majority of total recoverable aluminum in stormwater and utility wastewater discharge is present in particulate form and likely sourced from local soils;
- 5. Preliminary water sampling results from Outfall 001 did not detect a measurable amount of dissolved aluminum.

Based on this understanding, including the findings from a similar study conducted at the nearby BASF Freeport facility, we hypothesized that the fine, smectitic clays found onsite and/or deposited by wind in between storm events are the ultimate source of total recoverable aluminum in the Outfall 001 discharge. Aluminum in particulate form is naturally occurring at this locale and *represents a non-bioavailable form* that is not targeted by TCEQ. Therefore, the SAP employed a phased approach investigating the possible sources of aluminum in discharges from Outfall 001. The first, and only phase employed, was to sample for dissolved aluminum and total recoverable aluminum during discharge events only at the Outfall 001. Precipitation events are generally required to initiate pumping activities at Outfall 001 to drain waters that accumulate in the stormwater containment area. A more rigorous second sampling phase was designed so that if dissolved aluminum was found to constitute a significant (>50%) percentage of total aluminum during this first phase, an attempt to trace the source of dissolved aluminum as required in the TPDES permit would be initiated.

#### 4.0 METHODS FOR SAMPLE COLLECTION AND ANALYSIS

Phase 2 of the SAP was not initiated, so Sections 4 and 5 address Phase 1 only. We note one discrete sample was greater than the 50% of total recoverable aluminum but was determined to be an erroneous result or outlier and did not trigger Phase 2 as described in detail in Section 5.2.

#### 4.1 Sampling Location and Events

All discharged stormwater samples were collected from the established TCEQ permit compliance location at Outfall 001 during Phase 1 (Figure 4). Phase 1 sampling was conducted from 23 July 2020 to 26 May 2021.

#### 4.2 Sampling and Analytical Methodology

EPA-recommended quality control procedures for water quality sampling were followed throughout all sample collection and data assessment components of this project. Environmental Chemistry, Incorporated ("ECI") in Houston, TX, performed all laboratory analyses.

At each outfall and during each sampling event, representative grab samples were collected for dissolved aluminum and total recoverable aluminum (Table 1). Methods for collecting representative samples were performed in general accordance with USEPA operating procedures<sup>8</sup> and as codified under 40 CFR 136. All samples were uniquely labeled, iced, and transported in sealed coolers and under proper chain of custody to the receiving laboratory, in accordance with USEPA guidance<sup>9,10</sup>.

#### 4.2.1 Dissolved Aluminum

Representative grab samples were collected from each location and were field-filtered for ICP-MS analysis of dissolved aluminum concentration. A peristaltic pump and 0.2 micron capsule filters were used for field-filtration<sup>±</sup>. A minimum volume of 125 mL filtrate was obtained at each sampling location, and the filtrate was treated with nitric acid, following USEPA guidelines<sup>8</sup>. Samples were stored on ice in sealed coolers until delivery to ECI.

#### 4.2.2 Total Recoverable Aluminum

Representative grab samples (250 mL) were collected for ICP-MS analysis of total recoverable aluminum concentration. Samples were collected in preserved bottles, treated with nitric acid, and stored on ice in sealed coolers prior to delivery to ECI.

<sup>&</sup>lt;sup>±</sup> While standard practice involves a coarser, 0.45 micron filter, findings from a similar study conducted at the BASF Freeport Facility indicate that the fine smectite particulates abundant in the region are often sufficiently small to pass through this pore size. The smaller-pore 0.2 micron filter was deemed necessary to retain the particulate aluminum in this mineralogical setting.

#### 5.0 RESULTS

Sampling of Outfall 001 stormflow effluent was conducted during discharge events occurring between 25 October 2019 and 26 May 2021. To ensure an adequate sample size from which to evaluate the criteria outlined by TCEQ, BASF initiated sampling of every Outfall 001 discharge event in the first quarter of 2020 despite the SAP not being approved by TCEQ until 13 July 2020 (this sampling frequency matches the SAP and is greater than the permit requirement of a single quarterly sample for total and dissolved aluminum; note that no discharge events occurred in Q1 2020). The fourth quarter 2019 compliance sample results were also included in the data analysis for the same purpose. Samples collected prior to the SAP approval were all collected, handled, and analyzed following the same procedures as outlined in the SAP.

Temporal spacing between sampling events ranged from approximately one to 23 weeks. In total, 13 water samples were collected from the Freeport Harbor Ammonia Terminal during the study period for analysis of total recoverable aluminum and dissolved aluminum concentrations.

Precipitation measured at the Freeport Harbor Ammonia Terminal is presented to provide context for the storms associated with each sampling event, where applicable (Table 2). The amount of precipitation collected ranged from 0.48 inches to 7.63 inches. The sample on 26 May 2021 was collected during dry weather due to the need of the facility to pump effluent from the stormwater containment and treatment basin that was still present following previous heavy rains.

#### 5.1 Total Recoverable Aluminum

Concentrations of total recoverable aluminum in the 13 samples collected at Outfall 001 ranged from 153  $\mu$ g/L (estimated value between the detection and quantitation limit) to 26,100  $\mu$ g/L (Table 2).

#### 5.2 Dissolved Aluminum

Three of the thirteen samples contained dissolved aluminum concentrations below the reporting limit of 20  $\mu$ g/L (Table 2). The mean dissolved aluminum concentrations across all samples is 200  $\mu$ g/L (mean = 159  $\mu$ g/L excluding the sample result that is believed to be erroneous as described below).

There were two anomalously high dissolved concentration of values, 1,200  $\mu$ g/L and 690  $\mu$ g/L, reported for the 29 April 2020 and 18 February 2021 storm events, respectively. The high

concentration from the April 2020 date did not initiate a Phase 2 sampling schedule because the total percentage of particulate aluminum of the sample was well below the 50% requirement. While being anomalously high, this sample was not excluded from our analysis as the percentage of particulate aluminum for the sample was in line with the other sample results. For the February 2021 sample, not only was the dissolved aluminum concentration anomalously high, the percentage of particulate aluminum calculated for the sample was an extreme outlier for both this study and relative to the results from BASF's similar study conducted at their nearby Freeport facility. NAI and BASF have serious concerns about the quality assurance of this sample, particularly given that no aluminum-containing chemicals are used or stored at this site, and therefore deemed the dissolved concentration to be an erroneous outlier and determined initiation of Phase 2 sampling was not warranted based on that result alone. Phase 1 sampling was continued and the February 2021 is reported here for the sake of transparency but omitted from consideration in this assessment.

#### 5.3 Relationship of Dissolved and Total Aluminum

The percentage of particulate aluminum present in each sample was calculated as:

# $\frac{\textit{Total Recoverable Aluminum} - \textit{Dissolved Aluminum}}{\textit{Total Recoverable Aluminum}} \times 100$

For samples containing dissolved aluminum concentrations below the reporting limit, the maximum possible value of 20  $\mu$ g/L was used in order to provide the most conservative particulate percentage for the purposes of this report. For the particulate percentages, ten of the 12 samples (omitting the 18 February 2021 sample) were in excess of 95% (Table 2), with the minimum value of the 12 samples at 74%.

#### 6.0 SUMMARY AND RECOMMENDATIONS

The results of this study clearly demonstrate that **aluminum present in effluent from Outfall 001 is almost entirely particulate**, generally greater than 95% using conservative calculation methods, and thereby not bioavailable to aquatic organisms. In addition, the site audit and assessment conducted at the Ammonia Terminal on November 19, 2019 confirmed there were no sources of aluminum other than the native soil in the containment/treatment pond on the south side of the facility. Therefore, we conclude that **aluminum detected in stormwater discharges from Outfall 001 originates from exogenous sources, unrelated to operations at the Freeport Harbor Ammonia Terminal**. The findings are further supported by results of a prior aluminum study from another BASF facility in local proximity to the terminal<sup>3</sup>. That study concluded that the vast majority of total recoverable aluminum in stormwater and utility wastewater discharge is present in particulate form and likely sourced from local soils. TCEQ followed that study by removing aluminum limits from the TPDES permit for that facility.

TCEQ implementation guidance specifies that an aluminum limit is not needed, if a permittee can demonstrate "(1) that process water is not the source of aluminum in storm water and (2) that the aluminum in the storm water is primarily particulate" (Implementation Manual<sup>2</sup>, p. 163). The results of this investigation demonstrate that the Freeport Harbor Ammonia Terminal clearly meet these criteria.

Given the clear and consistent results of this inquiry, NAI and BASF recommend that TCEQ remove the aluminum monitoring requirements in the next renewal of the TPDES permits for BASF's Freeport Harbor Ammonia Terminal, TX facility.

#### **7.0 REFERENCES**

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# TABLES

Table 1. Sample parameters and methodology.

Parameter	Unit	Sample Type	Method
Aluminum - Dissolved	µg/L	Grab	EPA 200.8
Aluminum - Total Recoverable	μg/L	Grab	EPA 200.8

Sample Date	Sample Time	Precipitation Amount	Total Al (μg/L)	Dissolved Al (µg/L)	Particulate Al (% of Total)
10/25/2019	1010	7.63" during the previous 2 weeks	1810	ND	99
04/08/2020	1450	0.48″	590	ND	97
04/29/2020	1045	1.25″	9870	1200	88
05/16/2020	1120	0.65″	5120	252	95
06/24/2020	933	1.59″	9790	53	99
07/23/2020	1050	3.16" during the previous week	153 <sup>1</sup>	39.9	74
08/26/2020	1200	0.34″	26100	69.3	100
09/21/2020	1535	3.21" from Sep 21-23, 2020	3390	40.8	99
02/18/2021	1342	.56" of rain, includes snow/ice melted	798	690 <sup>2</sup>	14
03/26/2021	1309	1.28"during previous 7 days	3450	151	96
04/29/2021	1535	1.35" during the previous 2 weeks	822	16.6	98
05/17/2021	1509	5.81" from May 17-24, 2021	1570	ND	99
05/26/2021	1235	0", needed to pump from previous rain event	2240	27.9	99

Table 2. Precipitation data and aluminum concentrations in stormwater discharge from Outfall001.

<sup>1</sup>Estimated value between the detection and quantitation limit.

<sup>2</sup> This concentration is thought to be an erroneous outlier. While we report the value for the sake of transparency, this sample was not considered as part of the assessment.

ND = Not Detected

# FIGURES









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