

# This file contains the following documents:

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



# Este archivo contiene los siguientes documentos:

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



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

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

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

Calpine Hidalgo Energy Center, L.P. (CN600121932); Public Utilities Board of the City of Brownsville, Texas (CN601658651); and Calpine Operating Services Company, Inc. (CN602680076) operates Calpine Hidalgo Energy Center (RN100224989), a power generating facility. The facility is located at 4005 N Seminary Road, in Edinburg, Hidalgo County, Texas 78541. The facility has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004138000 to authorize the discharge of industrial wastewater at a volume not to exceed a daily average flow of 920,000 gallons per day.

Discharges from the facility are expected to contain carbonaceous biochemical oxygen demand (5-day), total dissolved solids, chloride, sulfate, nitrate nitrogen, ammonia nitrogen, total residual chlorine, total chromium, and zinc. Types of wastewater discharged from the facility include cooling tower blowdown and previously monitored effluents through Outfall

001. Previously monitored effluents discharged through Outfall 001 are low volume waste sources from internal Outfall 101 and offline combustion turbine wash water (metal cleaning wastes) from internal Outfall 201. Cooling tower blowdown is dechlorinated prior to discharge through Outfall 001. Low volume waste sources from internal Outfall 101 are treated by an oil water separator prior to comingling with other wastewaters for discharge through Outfall 001. Wastewater from internal Outfall 201 is not treated prior to discharge.

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

## AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

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

Calpine Hidalgo Energy Center, L.P. (CN600121932); Public Utilities Board of the City of Brownsville, Texas (CN601658651); y Calpine Operating Services Company, Inc. (CN602680076) opera Calpine Hidalgo Energy Center (RN100224989), una instalación de generación de energía. La instalación está ubicada en 4005 N Seminary Road, en Edinburg, Condado de Hidalgo, Texas 78541. La instalación 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. WQ0004138000 para autorizar la descarga de aguas residuales industriales a un volumen que no exceda un promedio diario de 920,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica carbonosa de oxígeno (5 días), sólidos disueltos totales, cloruro, sulfato, nitrato nitrógeno, nitrógeno amoniacal, cloro residual total, cromo total, y zinc. Los tipos de aguas residuales descargadas de la instalación incluyen el drenaje de la torre de enfriamiento y efluentes monitoreados previamente a través del emisario 001. Los efluentes monitoreados previamente descargaron de emisario 001 son fuentes de desechos de bajo volumen de emisario interno 101 y agua de lavado de turbinas de combustión fuera de línea (desechos de limpieza de metales) de emisario interno 201. El drenaje de la torre de enfriamiento es desclorado antes de ser descargado a través del emisario 001. Las fuentes de desechos de bajo volumen del emisario interno 101 se tratan mediante un separador de aceite y agua antes de mezclarse con otras aguas residuales para su descarga a través del emisario 001. Las aguas residuales de emisario interno 201 no se tratan antes de ser descargadas.

# **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

# PERMIT NO. WQ0004138000

APPLICATION. Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., and Calpine Operating Services Company, Inc., 717 Texas Avenue, Suite 1000, Houston, Texas 77002, which own a 500-megawatt combined cycle electric power generating facility, have applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004138000 (EPA I.D. No. TX0119423) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 920,000 gallons per day via Outfall 001. The facility is located at 4005 North Seminary Road, in the city of Edinburg, in Hidalgo County, Texas 78541. The discharge route is from the plant site to North Main Drain III; thence to North Main Drain II; thence to North Main Drain II; thence to North Main Drain II; thence to TCEQ received this application on July 8, 2025. The permit application will be available for viewing and copying at Dustin Michael Sekula Memorial Library, Reference Desk, 1906 South Closner Boulevard, Edinburg, in Hidalgo County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.175,26.341944&level=18

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

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 <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. 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 <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, 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 <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., and Calpine Operating Services Company, Inc. at the address stated above or by calling Mr. Ray Dube, EHS Manager, Calpine Operating Services Company, Inc., at 830-305-8429.

Issuance Date: July 31, 2025

# 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. WQ0004138000

**SOLICITUD.** Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., y Calpine Operating Services Company, Inc., que posee una instalación de generación de electricidad de ciclo combinado de 500 megavatios, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0004138000 (EPA I.D. No. TX0119423) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 920,000 galones por día. La planta está ubicada 4005 N Seminary Road, Edinburg en el Condado de Hidalgo, Texas 78541. La ruta de descarga es del sitio de la planta a Drenaje Principal Norte III; de ahí al Drenaje Principal Norte II; de ahí al Drenaje Principal Norte I; de ahí al Canal de Inundación Norte; de ahí a Laguna Madre. La TCEO recibió esta solicitud el 8 de julio de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Dustin Michael Sekula Memorial Library, mesa de referencia, 1906 S Closner Boulevard, Edinburg, en el Condado de Hidaglo, Texas antes de la fecha de publicación de este aviso en el periódico. 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=-98.175,26.341944&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

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

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

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

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 Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., y Calpine Operating Services, Inc. a la dirección indicada arriba o llamando a Sr. Ray Dube, Gerente de EHS, al 830-305-8429.

Fecha de emisión: 31 de julio de 2025



8 July 2025

Texas Commission on Environmental Quality Water Quality Section
Waste Permits Division
Building F, 2<sup>nd</sup> Floor
P.O. Box 13087
12100 Park 35 Circle
Austin, Texas 78711-3087

Via Email: wqdecopy@tceq.texas.gov

RE: Transmittal of Texas Pollutant Discharge Elimination System (TPDES)

Permit Renewal Application WQ0004138000 RN 100224989 Calpine Hidalgo Energy Center CN 603752932 Brownsville Public Utility Board CN 600131932 Calpine Hidalgo Energy Center, LP. CN 602680076 Calpine Operating Services Company, Inc.

#### Dear Sir or Madam:

Weston Solutions, Inc. (WESTON®) is pleased to submit this Texas Pollutant Discharge Elimination System (TPDES) permit renewal application for the above-referenced facility on behalf of Calpine Hidalgo Energy Center. The original application is being sent separately via FedEx.

Payment for the permit application fee has been made via ePay; documentation is included in the application.

Please contact me at 512-651-7104 or at <u>nancy.koch@westonsolutions.com</u> should you have any questions regarding this application.

Very truly yours, Weston Solutions, Inc.

Nancy L. Koch, P.E. Project Manager

cc: Orielle Buentello, Calpine Ray Dube, Calpine

#### **Attachments:**

Attachment A – TPDES Renewal Application



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: <u>Calpine Hidalgo Energy Center</u>, L.P.; <u>Public Utilities Board of the City of Brownsville</u>, <u>Texas</u>; <u>and Calpine Operating Services Company</u>, <u>Inc.</u>

PERMIT NUMBER (If new, leave blank): WQ0004138000

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

|  | Y           | N           |                          | Y           | N               |
|--|-------------|-------------|--------------------------|-------------|-----------------|
| Administrative Report 1.0                          | $\boxtimes$ |             | Worksheet 8.0            |             | $\boxtimes$     |
| Administrative Report 1.1                          |             | $\boxtimes$ | Worksheet 9.0            |             | $\boxtimes$     |
| SPIF   | $\boxtimes$ | □ E         | Worksheet 10.0           |             | $\boxtimes$     |
| Core Data Form                                     | $\boxtimes$ | $\square$ B | Worksheet 11.0           |             | $\boxtimes$     |
| Summary of Application (PLS)                       | $\boxtimes$ | □С          | Worksheet 11.1           |             | $\boxtimes$     |
| Public Involvement Plan Form                       |             | $\boxtimes$ | Worksheet 11.2           |             | $\boxtimes$     |
| Technical Report 1.0                               | $\boxtimes$ |             | Worksheet 11.3           |             | $\boxtimes$     |
| Worksheet 1.0                                      | $\boxtimes$ |             | Original USGS Map        | $\boxtimes$ | $\square$ D     |
| Worksheet 2.0                                      | $\boxtimes$ |             | Affected Landowners Map  |             | $\boxtimes$     |
| Worksheet 3.0                                      |             | $\boxtimes$ | Landowner Disk or Labels |             | $\boxtimes$     |
| Worksheet 3.1                                      |             | $\boxtimes$ | Flow Diagram             | $\boxtimes$ | $\Box$ G        |
| Worksheet 3.2                                      |             | $\boxtimes$ | Site Drawing             | $\boxtimes$ | $\Box$ <b>F</b> |
| 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<br>Expiration Date<br>Permit Number |             | Region      |                          |             |                 |

# 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 Oil and

| Gas Exploration and Production Administrative Report ( <u>TCEQ Form-20893 and 20893-inst</u> <sup>1</sup> ). |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Item 1. Application Information and Fe   | es (Instructions, Page 26)                     |  |  |  |  |  |  |
| a. Complete each field with the requested information  | ı, if applicable.                              |  |  |  |  |  |  |
| Applicant Name: Calpine Hidalgo Energy Center  |  |  |  |  |  |  |  |
| Permit No.: <u>WQ0004138000</u>  |  |  |  |  |  |  |  |
| EPA ID No.: <u>TX0119423</u>   |  |  |  |  |  |  |  |
| Expiration Date: <u>26 January 2026</u>  |  |  |  |  |  |  |  |
| b. Check the box next to the appropriate authorizatio  | n type.  |  |  |  |  |  |  |
| ☑ Industrial Wastewater (wastewater and stormwa  | ter)   |  |  |  |  |  |  |
| ☐ Industrial Stormwater (stormwater only)  |  |  |  |  |  |  |  |
| ☐ Reverse Osmosis Water Treatment (reverse osmo  | osis water treatment wastewaters only)         |  |  |  |  |  |  |
| c. Check the box next to the appropriate facility statu  | s.   |  |  |  |  |  |  |
| $\boxtimes$ Active $\square$ Inactive  |  |  |  |  |  |  |  |
| d. Check the box next to the appropriate permit type.  |  |  |  |  |  |  |  |
| oxtimes TPDES Permit $oxtimes$ TLAP $oxtimes$ TPDES with   | TLAP component                                 |  |  |  |  |  |  |
| e. Check the box next to the appropriate application t   | ype.   |  |  |  |  |  |  |
| □ New  |  |  |  |  |  |  |  |
| ☐ Renewal with changes   | wal without changes                            |  |  |  |  |  |  |
| $\square$ Major amendment with renewal $\square$ Major   | r amendment without renewal                    |  |  |  |  |  |  |
| ☐ Minor amendment without renewal  |  |  |  |  |  |  |  |
| $\square$ Minor modification without renewal   |  |  |  |  |  |  |  |
| f. If applying for an amendment or modification, des   | cribe the request: <u>Click to enter text.</u> |  |  |  |  |  |  |
| For TCEQ Use Only  |  |  |  |  |  |  |  |
| Segment NumberCounty<br>Expiration DateRegion  |  |  |  |  |  |  |  |
| Permit Number  |  |  |  |  |  |  |  |

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

g. Application Fee

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

h. Payment Information

#### Mailed

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

Check or money order amt.: Click to enter text.

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

# **Epay**

Voucher number: <u>773993; 773994</u> Copy of voucher attachment: **A** 

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

a. Customer Number, if applicant is an existing customer: <u>CN 600131932 (HEC); 601658651 (BPUB)</u>

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

b. Legal name of the entity (applicant) applying for this permit: <u>Calpine Hidalgo Energy Center</u>, L.P. (HEC); Public Utilities Board of the City of Brownsville, Texas (BPUB)

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

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

Prefix: Mr. Full Name (Last/First Name): Key/Jacob

Title: <u>Plant Manager</u> Credential: <u>Click to enter text.</u>

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

2 411 C- -:1:1:

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

**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: <u>Calpine Operating Services Company, Inc.</u>

**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): CN602680076

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: Mr. Full Name (Last/First Name): Pate/Ty

Title: VP Central Region Operations 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 and attach one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)). If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: **B** 

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

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

a. oxtimes Administrative Contact . oxtimes Technical Contact

Prefix: Ms. Full Name (Last/First Name): Koch/Nancy

Title: <u>Project Manager</u> Credential: <u>P.E.</u>
Organization Name: Weston Solutions, Inc.

Mailing Address: 5301 Southwest Parkway, Suite 450 City/State/Zip: Austin, TX 78735

Phone No: <u>512-651-7104</u> Email: <u>Nancy.Koch@westonsolutions.com</u>

Prefix: Mr. Full Name (Last/First Name): <u>Dube/Ray</u>

Title: <u>EHS Manager</u> Credential: <u>Click to enter text.</u>
Organization Name: <u>Calpine Operating Services Company, Inc.</u>

Mailing Address: <u>717 Texas Avenue</u>, <u>Suite 1000</u> City/State/Zip: <u>Houston</u>, <u>TX 77002</u>

Phone No: 830-305-8429 Email: Ray.Dube@calpine.com

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: Mr. Full Name (Last/First Name): Pate/Ty

Title: <u>VP Central Region Operations</u> Credential: <u>Click to enter text.</u>

Organization Name: Calpine Hidalgo Energy Center, L.P..

Mailing Address: 717 Texas Avenue, Suite 1000 City/State/Zip: Houston, TX 77002

Phone No: <u>713-570-4823</u> Email: <u>Ty.Pate@calpine.com</u>

b. Prefix: Mr. Full Name (Last/First Name): Key/Jacob

Title: Plant Manager Credential: Click to enter text.

Organization Name: Calpine Operating Services Company, Inc.

Mailing Address: 4005 N. Seminary Road City/State/Zip: Edinburg, TX 78541

Phone No: <u>956-587-3287</u> Email: <u>Jacob.Key@calpine.com</u>

Attachment: Click to enter text.

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

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

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

Prefix: Ms. Full Name (Last/First Name): DeLeon/Ada

Title: <u>Business Manager</u> Credential: <u>Click to enter text.</u>

Organization Name: Calpine Operating Services Company, Inc.

Mailing Address: 4005 N. Seminary Road City/State/Zip: Edinburg, TX 78541

Phone No: <u>956-587-3322</u> Email: <u>Ada.DeLeon@calpine.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>Buentello/Orielle</u>

Title: EHS Specialist III Credential: Click to enter text.

Organization Name: <u>Calpine Operating Services Company, Inc.</u>

Mailing Address: 4005 N. Seminary Road City/State/Zip: Edinburg, TX 78541

Phone No: 956-732-8154 Email: Orielle.Buentello@calpine.com

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

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Koch/Nancy

Title: <u>Project Manager</u> Credential: <u>P.E.</u>

Organization Name: Weston Solutions, Inc.

Mailing Address: <u>5301 Southwest Parkway</u>, <u>Suite 450</u> City/State/Zip: <u>Austin, TX 78735</u>

Phone No: 512-651-7104 Email: Nancy.Koch@westonsolutions.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: Nancy.Koch@westonsolutions.com

 $\square$  Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): <u>Dube/Ray</u>

Title: <u>EHS Manager</u> Credential: <u>Click to enter text.</u>

Organization Name: <u>Calpine Operating Services Company, Inc.</u>

Phone No: 830-305-8429 Email: Ray.Dube@calpine.com

d. Public Viewing Location Information

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

Public building name: <u>Dustin Michael Sekula Memorial Library</u> Location within the

building: Reference Desk

Physical Address of Building: 1906 S Closner Blvd

City: Edinburg County: Hidalgo

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

(Regulated Entity and Permitted Site Information.) 2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school? ⊠ Yes □ No 3. Do the students at these schools attend a bilingual education program at another location? ☐ Yes ☒ No 4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)? □ Yes ⋈ No □ N/A 5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish Summary of Application in Plain Language Template - Complete and attach the Summary of Application in Plain Language Template (TCEO Form 20972), also known as the plain language summary or PLS. Attachment: C g. Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment. Attachment: Not applicable Item 10. Regulated Entity and Permitted Site Information (Instructions **Page 29)** a. TCEO issued Regulated Entity Number (RN), if available: RN100224989 **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 TCEO'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 (name known by the community where located): Hidalgo Energy Center 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: Click to enter text. Full Name (Last/First Name): Click to enter text. or Organization Name: Calpine Hidalgo Energy Center, L.P. and Public Utilities Board of the City of Brownsville, Texas Mailing Address: 1425 Robinhood Drive City/State/Zip: Brownsville, TX 78521 Email: customerservice@brownsville-pub.com Phone No: 956-983-6121 e. Ownership of facility: 

Public ☐ Private ⊠ Both ☐ Federal

If no, publication of an alternative language notice is not required; skip to Item 8

| f.  | Owner of land where treatment facility is o   | or will be: <u>Click to enter text.</u>  |              |
|-----|---|--|--------------|
|     | Prefix: Click to enter text. Full Name (I   | ast/First Name): Click to enter text.  |              |
|     | or Organization Name: Calpine Hidalgo En  | ergy Center, L.P.  |              |
|     | Mailing Address: <u>4005 N Seminary Road</u>  | City/State/Zip: Edinburg, TX 7   | <u>'8541</u> |
|     | Phone No: <u>956-587-3287</u> Email: <u>Jacob</u>   | .Key@calpine.com   |              |
|     | <b>Note:</b> If not the same as the facility owner, at least six years (In some cases, a lease machine to enter text.                 |  |              |
| g.  | Owner of effluent TLAP disposal site (if ap   | plicable): <u>Not Applicable</u>   |              |
|     | Prefix: <u>Click to enter text.</u> Full Name (I  | ast/First Name): Click to enter text.  |              |
|     | or Organization Name: Click to enter text.  |  |              |
|     | Mailing Address: Click to enter text.   | City/State/Zip: Click to enter t   | text.        |
|     | Phone No: <u>Click to enter text.</u> Email: <u>Click</u>   | to enter text.   |              |
|     | <b>Note:</b> If not the same as the facility owner, at least six years. Attachment: <u>Click to enter</u>                             | The second secon | effect for   |
| h.  | Owner of sewage sludge disposal site (if ap   | oplicable):  |              |
|     | Prefix: <u>Click to enter text.</u> Full Name (I  | ast/First Name): Click to enter text.  |              |
|     | or Organization Name: Click to enter text.  |  |              |
|     | Mailing Address: Click to enter text.   | City/State/Zip: Click to enter t   | text.        |
|     | Phone No: Click to enter text. Email: Click t   | o enter text.  |              |
|     | <b>Note:</b> If not the same as the facility owner, at least six years. Attachment: Click to enter                                    |  | effect for   |
| Ite | em 11. TDPES Discharge/TLAP D<br>Page 31)   | Disposal Information (Instruct   | tions,       |
|     |   | 1 000  | lo.          |
| a.  | Is the facility located on or does the treate $\square$ Yes $\boxtimes$ No  | d effluent cross Native American Land  | ! <b>?</b>   |
| b.  | Attach an original full size USGS Topograp<br>renewal or amendment applications) with a<br>each item below to confirm it has been inc | all required information. Check the bo   |              |
|     | ☑ One-mile radius   | ☑ Three-miles downstream informat  | ion          |
|     | ☑ 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   | ☐ New and future construction  |              |
|     | Attachment: <b>D</b>  |  |              |
| c.  | Is the location of the sewage sludge dispos   | al site in the existing permit accurate?   | ?            |
|     | ☐ Yes ☒ No or New Permit  |  |              |
| TCI | EO-10411 (00/13/2024) Industrial Wastewater Applic  | ation Administrative Deport  | Dage 8 of 17 |

|    | If no, or a new application, provide an accurate location description: Not Applicable  |
|----|--|
| d. | Are the point(s) of discharge in the existing permit correct? $\  \  \  \  \  \  \  \  \  \  \  \  \ $   |
|    | 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 text.</u>  |
| f. | City nearest the outfall(s): <u>Edinburg</u>   |
| g. | County in which the outfalls(s) is/are located: <u>Hidalgo</u>   |
| h. | Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?  |
|    | ⊠ Yes □ No   |
|    | If yes, indicate by a check mark if: $\boxtimes$ Authorization granted $\square$ Authorization pending   |
|    | For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>                          |
|    | For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Not Applicable |
| i. | For TLAPs, is the location of the effluent disposal site in the existing permit accurate?  |
|    | ☐ Yes No or New Permit ☐ <u>Not applicable</u>   |
|    | If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>   |
| j. | City nearest the disposal site: <u>Edinburgh</u>   |
| k. | County in which the disposal site is located: <u>Hidalgo</u>   |
| l. | For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Not applicable  |
| m. | For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Not applicable</u>   |

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

| a. | Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application? |
|----|--|
|    | □ Yes ⊠ No   |
|    | If yes, list each person: <u>Click to enter text.</u>  |
| b. | Do you owe any fees to the TCEQ?   |
|    | □ Yes ⊠ No   |
|    | If yes, provide the following information:   |
|    | Account no.: Click to enter text.  |
|    | 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.: Click to enter text.  |
|    | Amount due: Click to enter text.   |
|    |  |

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

Permit No: WO0004138000

Applicant Name: Calpine Operating Services Company, Inc.

Certification: I, <u>Ty Pate</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): Ty Pate

Signatory title: VP Central Region Operations

| Signature: (Use blue ink)                      | Date: <u>30 - Ju</u>                       | 1-2425         |
|--|--|----------------|
| Subscribed and Sworn to before me by the said  | 1 lois Kilver                              |                |
| Subscribed and Sworn to before the by the said | I LEVI FIRE                                |                |
| on this  | day of $30$                                | 20 <u>25</u> . |
| My commission expires on the                   | _day of $2$ ,                              | 2027.          |
| Lori Killer                                    |  |                |
| Notary Public                                  | NOTATION LORI KIKER                        | xas            |
| Harris   | Comm. Expires 07-12-20 Notary ID 134449872 |                |
| County, Texas                                  |  |                |

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

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

Permit No: WO0004138000

Applicant Name: <u>Hidalgo Energy Center, LP.</u>

Certification: I, Jacob Key, 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): Jacob Key

Signatory title: Plant Manager

Date: 06/3/25

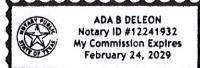
Subscribed and Sworn to before me by the said day of

commission expires on the

day of

Notary Public

[SEAL]



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

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

Permit No: W00004138000 Applicant Name: Public Utilities Board of the City of Brownsville, Texas Certification: I, Alberto Gomez, Ir. , 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): Alberto Gomez, Jr. Signatory title: Director of Environmental services Date: 06-23-2025 Signature: Subscribed and Sworn to before me by the said Alberto Gomez, Jr. 23 \_day of\_\_ Iune on this 5+4 day of\_\_\_ My commission expires on the\_ **NELDA G. LOPEZ** 

Notary Public, State of Texas SEAL Comm. Expires 04-05-2028 Notary ID 2851140

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

# 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: **E** 

# 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 Calpine Hidalgo Energy Center is a combined-cycle power plant that produces energy by combusting natural gas in two combustion turbines (no duct firing), which provide steam through a Heat Recovery Steam Generator (HRSG) for one steam turbine. The electricity produced is transmitted to a nearby electrical substation for distribution to the power grid. SIC Code = 4911, NAICS Code = 22112.

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

Raw water to the plant is provided through a combination of the City of McAllen's publicly owned treatment work (POTW) effluent and the City of Edinburg's potable water. The plant has an option to use reclaimed water from the City of Edinburg when the City of McAllen's supply is interrupted. The primary wastewater stream is generated from non-contact cooling water blowdown. Blowdown from the steam generators and evaporative coolers is used as make-up water for the cooling tower, as are the wastes from the boiler water treatment system (the reverse osmosis generation reject stream and backwash from the ion exchange system). Low volume wastewater generated from plant area drains include the following sources: plant service water, wash water, spill cleanup wastes, and stormwater, which may accumulate within process or containment areas. Metal cleaning wastes is generated infrequently as offline combustion turbine wash water and is authorized under Outfall 201.

 $\underline{https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\_industrial\_wastewater\_steps.html}$ 

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

# **Materials List**

| Raw Materials                   | Intermediate Products | Final Products       |
|---------------------------------|-----------------------|----------------------|
| Natural Gas (no CAS)            | Heat (no CAS)         | Electricity (no CAS) |
| Sulfuric Acid (7664-93-9)       | Steam (no CAS)        |                      |
| Sodium Hypochlorite (7681-52-9) |                       |                      |
| Sodium Bisulfite (7631-90-5)    |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |
|                                 |                       |                      |

Attachment: Click to enter text.

d. Attach a facility map (drawn to scale) with the following information:

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

- 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: F

|    |                   | Yes               | $\boxtimes$ | No   |
|----|-------------------|-------------------|-------------|--|
|    | If <b>y</b>       | <b>es</b> , provi | de ba       | ackground discussion: Click to enter text.                           |
| f. | Is/will<br>level. | the treat         | ment        | facility/disposal site be located above the 100-year frequency flood |
|    |                   | Yes               | $\boxtimes$ | No   |

List source(s) used to determine 100-year frequency flood plain: <u>FEMA Flood Insurance Rate</u> Map No. 480334 0325C, effective 6/6/2000.

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: There is no wastewater treatment facility per se; the only treatment consists of dechlorination of cooling tower blowdown and the use of an oil/water separator for low volume waste streams. The Hidalgo County Drainage District controls flooding in the larger region.

Attachment: Click to enter text.

| g.  |                         |                 |          |                |             |                   | the state    |             | struction   | operations re                         | Suit   |
|-----|-------------------------|-----------------|----------|----------------|-------------|-------------------|--------------|-------------|-------------|---------------------------------------|--------|
|     |                         | Yes             |          | No             | $\boxtimes$ | N/A (ren          | ewal only)   | )           |             |                                       |        |
| h.  | If <b>yes</b><br>permit |                 | 1.g, ha  | as the a       | pplicai     | nt applied        | for a USA    | CE CWA C    | hapter 40   | 4 Dredge and                          | l Fill |
|     |                         | Yes             |          | No             |             |                   |              |             |             |                                       |        |
|     | If yes,                 | provide         | the p    | ermit n        | umber       | : Click to        | enter text.  |             |             |                                       |        |
|     | If <b>no</b> , j        | provide         | an apj   | proxima        | ite dat     | e of applic       | cation sub   | mittal to t | he USACE    | : Click to ente                       | er     |
| Ite | em 2                    | . Trea          | atme     | ent Sy         | ystei       | n (Inst           | ruction      | ıs, Pago    | e 40)       |                                       |        |
| a.  | wastev                  | water at        | this fa  | acility. I     | nclude      | a descrip         | otion of ea  |             | ent proces  | oosed to treat<br>ss, starting wi     |        |
|     | strear                  | ns are pi       | ped to   | an oil-wa      | ater sep    | oarator and       | l are monite |             | o discharge | e low volume w<br>e via internal      | aste   |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
|     |                         |                 |          |                |             |                   |              |             |             |                                       |        |
| b.  | flow in                 |                 | acility  | , wastev       | water f     | low into a        |              | _           |             | er and wastev<br>and wastewa          |        |
|     | Attack                  | ıment: <u>(</u> | <u>3</u> |                |             |                   |              |             |             |                                       |        |
| Ito | em 3                    | . Imp           | oun      | dmer           | nts (1      | instruc           | tions, l     | Page 40     | <b>)</b> )  |                                       |        |
| Do  | es the                  | facility ι      | ise or   | plan to        | use ar      | ıy wastew         | ater impoi   | undments    | (e.g., lago | ons or ponds                          | ?)     |
|     | □ Ye                    | es 🗵            | No       |                |             |                   |              |             |             |                                       |        |
| 3.e | for <b>ne</b>           | w or pr         | opose    | <b>d</b> impoi | undme       | nts. <b>NOT</b> l |              | ructions, P |             | ts and <b>Items</b> 3.2, for addition |        |

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

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

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

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

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

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

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

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

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

### **Impoundment Information**

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

| Parameter                       | Pond # | Pond # | Pond # | Pond # |
|---------------------------------|--------|--------|--------|--------|
| 40 CFR Part 257, Subpart D, Y/N |        |        |        |        |
| Date of Construction            |        |        |        |        |

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

| $\square$ Yes $\square$ No $\square$ Not yet design |    |
|---|----|
| THE YES THE NOT THE NOT VEHICLES 1911               | ed |

2. Leak detection system or groundwater monitoring data

| □ Ye: | s 🗆 | l No | Not | yet designed |
|-------|-----|------|-----|--------------|

3. Groundwater impacts

|   | Yes |   | No   |   | Mati   | yet designed |
|---|-----|---|------|---|--------|--------------|
|   | res |   | INO  |   | INOL ' | vei designed |
| _ |     | _ | - 10 | _ | - 100  | ,            |

**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         | 26.340944                  | -98.183986                  |
| 101         | 26.342119                  | -98.175367                  |
| 201         | 26.341603                  | -98.174642                  |

# **Outfall Location Description**

| Outfall No. | Location Description   |
|-------------|--|
| 001         | 1,500 ft west of the SW corner of the property, where it is piped from the property to the N. Main Ditch of Hidalgo County Drainage District No. 1 |
| 101         | Internal outfall immediately following the oil/water separator prior to mixing with other wastes.  |
| 201         | Gas turbine generator sump (turbine wash sump).  |

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

| Outfall No. | Description of sampling point  |
|-------------|--|
| 001         | Approximately 100 ft west of the perimeter fence as shown in Attachment F. |

#### Outfall Flow Information - Permitted and Proposed

| Outfall No. | Permitted<br>Daily Avg<br>Flow (MGD) | Permitted<br>Daily Max<br>Flow (MGD) | Proposed<br>Daily Avg<br>Flow (MGD) | Proposed<br>Daily Max<br>Flow (MGD) | Anticipated Discharge Date (mm/dd/yy) |
|-------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 001         | 0.92                                 | 1.84                                 | No change                           | No change                           |                                       |
| 101         | Report                               | Report                               | No change                           | No change                           |                                       |
| 201         | Report                               | Report                               | No change                           | No change                           |                                       |

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

| Outfall No. | Pumped Discharge?<br>Y/N | Gravity Discharge?<br>Y/N | Type of Flow Measurement<br>Device Used |
|-------------|--------------------------|---------------------------|---|
| 001         | Y                        | N                         | Flow Meter                              |
| 101         | Y                        | N                         | Flow Meter                              |
| 201         | Y                        | N                         | Estimate                                |

# **Outfall Discharge - Flow Characteristics**

| Outfall No. |   | Continuous<br>Discharge?<br>Y/N | Seasonal<br>Discharge?<br>Y/N | Discharge<br>Duration<br>(hrs/day) | Discharge<br>Duration<br>(days/mo) | Discharge<br>Duration<br>(mo/yr) |
|-------------|---|---------------------------------|-------------------------------|------------------------------------|------------------------------------|----------------------------------|
| 001         | N | Y                               | N                             | 24                                 | 31                                 | 12                               |
| 101         | N | Y                               | N                             | 24                                 | 31                                 | 12                               |
| 201         | Y | N                               | N                             | NA                                 | NA                                 | NA                               |

# **Outfall Wastestream Contributions**

# Outfall No. <u>001</u>

| Contributing Wastestream                           | Volume (MGD) | Percent (%) of Total Flow |
|--|--------------|---------------------------|
| Cooling Tower Blowdown*                            | 0.914        | 99.56                     |
| Low Volume Waste Sources<br>(Miscellaneous Drains) | 0.004        | 0.44                      |
| * Includes HRSG blowdown,                          |              |                           |
| evaporative cooler blowdown,                       |              |                           |
| ion exchange regeneration WW,                      |              |                           |
| and RO reject stream                               |              |                           |
|  |              |                           |
|  |              |                           |

# Outfall No. 101

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|--------------------------|--------------|---------------------------|
| Miscellaneous Drains     | 0.004        | 100                       |
|                          |              |                           |
|                          |              |                           |
|                          |              |                           |
|                          |              |                           |
|                          |              |                           |
|                          |              |                           |
|                          |              |                           |

# Outfall No. 201

| Contributing Wastestream  | Volume (MGD)         | Percent (%) of Total Flow |
|---|----------------------|---------------------------|
| Combustion Turbine Wash Water (and other metal cleaning wastes) | Variable, Low Volume | 100                       |
|   |                      |                           |
|   |                      |                           |

| 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:
  - ☑ Yes □ No Use cooling towers that discharge blowdown or other wastestreams
  - oxtimes Yes oxtimes 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: H

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<br>Units | Daily Avg Blowdown<br>(gallons/day) | Daily Max Blowdown<br>(gallons/day) |
|----------------|--------------------|-------------------------------------|-------------------------------------|
| Cooling Towers | 1                  | 91,000                              | 1,840,000                           |
| Boilers        | 2                  | 40,800                              | 40,800                              |

| Item 6. Stormwater Management (Inst   | ructions, Page 44)                  |  |
|---|-------------------------------------|--|
| Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at $40\ CFR\ \S\ 122.26(b)(14)$ , commingled with any other wastestream?   |                                     |  |
| ⊠ Yes □ No  |                                     |  |
| If <b>yes</b> , 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>Limited stormwater may collect in secondary containment areas that are subsequently combined with the miscellaneous drains.</u> |                                     |  |
| Item 7. Domestic Sewage, Sewage Sluc  | dge and Sentage                     |  |
| Management and Disposal (Ins  |                                     |  |
| <b>Domestic Sewage</b> - Waste and wastewater from humans discharged to a wastewater collection system or otherwis  | _                                   |  |
| a. Check the box next to the appropriate method of dom sludge treatment or disposal. Complete Worksheet 5.0   |                                     |  |
| ☑ Domestic sewage is routed (i.e., connected to or tra<br>receive domestic sewage for treatment, disposal, or   |                                     |  |
| ☐ Domestic sewage disposed of by an on-site septic to Item 7.b.   | ank and drainfield system. Complete |  |
| $\square$ Domestic and industrial treatment sludge ARE com  | mingled prior to use or disposal.   |  |
| ☐ Industrial wastewater and domestic sewage are treasludge IS NOT commingled prior to sludge use or d   |                                     |  |
| $\square$ Facility is a POTW. Complete Worksheet 5.0.   |                                     |  |
| $\square$ Domestic sewage is not generated on-site.   |                                     |  |
| $\square$ Other (e.g., portable toilets), specify and Complete I  | tem 7.b: Click to enter text.       |  |
| b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.   |                                     |  |
| Domestic Sewage Plant/Hauler Name   |                                     |  |
| Plant/Hauler Name   | Permit/Registration No.             |  |
| City of Edinburg  | TX0024112                           |  |

| Plant/Hauler Name | Permit/Registration No. |
|-------------------|-------------------------|
| City of Edinburg  | TX0024112               |
|                   |                         |

# 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 <b>yes</b> to either 8.a <b>or</b> 8.b, provide a brief summary of the requirements and a status update: Click to enter text.   |
| It   | em 9. Toxicity Testing (Instructions, Page 45)   |
|      | we any biological tests for acute or chronic toxicity been made on any of the discharges or a receiving water in relation to the discharge within the last three years?  |
|      | ⊠ Yes □ No   |
| If y | yes, identify the tests and describe their purposes: Click to enter text.  |
| or   | ditionally, attach a copy of all tests performed which <b>have not</b> been submitted to the TCEQ EPA. <b>Attachment:</b> All acute and chronic biomonitoring tests required by the TPDES permit have eviously been submitted to TCEQ. |
| It   | em 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 <b>yes</b> , provide responses to Items 10.b through 10.d below.  |
|      | If <b>no</b> , 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 <b>yes</b> , 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 y | 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 $\boxtimes$ 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 П No Decommissioned: Click to enter text.

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

To Be Decommissioned: Click to enter text.

If **decommissioned**, provide the date operation ceased and stop here.

If to **be decommissioned**, provide the date operation is anticipated to cease and stop here.

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

|    | If <b>yes</b> , stop here. If <b>no</b> , continue.   |                |               |            |   |                      |                    |
|----|---|----------------|---------------|------------|---|----------------------|--------------------|
| c. | Co  | oling Water S  | upplier       |            |   |                      |                    |
|    | 1.  |                |               |            | (s) and operator(s) for ses to the facility.      | or the CWIS that su  | pplies or will     |
| Co | olin  | g Water Intake | e Structure   | e(s) Owner | r(s) and Operator(s)                              |                      |                    |
| C  | None – cooling water is reclaimed water obtained from the City of McAllen's Wastewater Treatment Plant WQ0010633004. Consequently, the facility is exempt from 316b Cooling Water Intake Structure requirements per 40 CFR 125.91(c). |                |               |            |   |                      | Consequently,      |
| 0  | wn  | er             |               |            |   |                      |                    |
| O  | per   | ator           |               |            |   |                      |                    |
|    | 2.  | Cooling wate   | er is/will l  | oe obtaine | ed from a Public Wa                               | ter Supplier (PWS)   |                    |
|    |   |                | No 🗆          |            | WS No.:   | cer supplier (1 (18) |                    |
|    |   |                |               | ŕ          | the PWS Registratio                               | n No. and stop here  | <u>.</u>           |
|    | 3   | Cooling water  | ar ie /will l | ao obtain  | ed from a reclaimed                               | water cource?        |                    |
|    | J.  |                | To 🗵          |            | uth No.: <u>WQ000106</u> ;                        |                      |                    |
|    |   |                |               |            | the Reuse Authoriza                               |                      | here               |
|    | 4   |                | -             |            |   | _                    | ici c.             |
|    | 4.  |                |               |            | ed from an Independ                               |                      |                    |
|    |   |                | IO 🗆          | •          | IF: Click to enter tex                            |                      | T d d              |
|    |   |                |               | -          | r <b>es</b> , provide the actuused to provide wat |                      | _                  |
| d. | 31  | 6(b) General ( | Criteria      |            |   |                      |                    |
|    | 1.  |                |               |            | ater for cooling purp<br>of 2 MGD or greater      |                      | has or will have a |
|    |   | □ Y            | es 🗆          | No         |   |                      |                    |
|    | 2.  |                |               |            | withdrawn by the C<br>s on an annual aver         |                      | ed at the facility |
|    |   | $\square$ Y    | es 🗆          | No         |   |                      |                    |
|    | 3.  |                |               |            | se(s) to withdraw w<br>efinition of Waters o      |                      |                    |
|    |   | $\square$ Y    | es 🗆          | No. Ex     | planation:_Click to e                             | enter text.          |                    |
|    |   |                |               |            | f how the waterbody<br>40 CFR § 122.2.            | y does not meet the  | e definition of    |

Yes

No

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 ves. 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 No Yes 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 П 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

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject

No

Yes

|    | -       | ves, check the box next to the compliance track selection and provide the requested formation.  |
|----|---------|---|
|    |         | 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.  |
|    | At      | tachment: Click to enter text.  |
| It | em 1    | 3. Permit Change Requests (Instructions, Page 48)   |
| Th | is item | is only applicable to existing permitted facilities.  |
| a. | Is the  | facility requesting a <b>major amendment</b> of an existing permit?   |
|    |         | Yes 🗵 No  |
|    | inforn  | list each request individually and provide the following information: 1) detailed nation regarding the scope of each request and 2) a justification for each request. In any supplemental information or additional data to support each request. |
|    | Click   | to enter text.  |
|    |         |   |
|    |         |   |
|    |         |   |
|    |         |   |
|    |         |   |
| b. | Is the  | facility requesting any <b>minor amendments</b> to the permit?  |
|    |         | Yes 🖂 No  |
|    | If yes, | list and describe each change individually.   |
|    | Click   | to enter text.  |
|    |         |   |
|    |         |   |
|    |         |   |
|    |         |   |
| c. | Is the  | facility requesting any <b>minor modifications</b> to the permit?   |
| ٠. |         | 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: o periodically inspected by the TCEQ; or o located in another state and is accredited or inspected by that state; or performing work for another company with a unit located in the same site; or performing pro bono work for a governmental agency or charitable organization. The laboratory is accredited under federal law. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available. The laboratory supplies data for which the TCEQ does not offer accreditation. The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification. **CERTIFICATION:** I certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25. Environmental Testina Laboratory Accreditation and Certification. Printed Name: Jacob Key Title: Plant Manager Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

| Item 1. Categorio  | cal Industries (                               | (Instructions,        | Page 53)                   |          |
|--|--|-----------------------|----------------------------|----------|
| Is this facility subject to a  | any 40 CFR categorica                          | al ELGs outlined on p | page 53 of the instruction | ıs?      |
| ⊠ Yes □ No   |  |                       |                            |          |
| If <b>no</b> , this worksheet is no  | ot required. If <b>yes</b> , pr                | ovide the appropriat  | te information below.      |          |
| 40 CFR Effluent Guideline  |  |                       |                            |          |
| Industry   |  |                       | 40 CFR Part                |          |
| Power Generation - Com   | ibined Cycle Generati                          | ng Units              | 423                        |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
|  |  |                       |                            |          |
| Item 2. Production   | on/Process Da                                  | ta (Instruction       | ns. Page 54)               |          |
| NOTE: For all TPDES perrof oil and gas exploration the state, falling under the Worksheet 12.0, Item 2 in a. Production Data | n and production was<br>ne Oil and Gas Extract | tewater (discharges i | into or adjacent to water  | or o o   |
| Provide appropriate data  Production Data  | for effluent guideline                         | es with production-b  | pased effluent limitations | in<br>ee |
| Production Data  |  | •                     |                            | in<br>ee |
| Production Data  |  | •                     |                            | in<br>ee |
| Production Data Subcategory Ac No production-  |  | •                     |                            | in<br>ee |
| Production Data Subcategory Ac No production-  |  | •                     |                            | in<br>ee |
| Production Data Subcategory Ac No production-  |  | •                     |                            | in<br>ee |

| Subcategory         | Actual Quantity/Day  | Design Quantity/Day          | Units                   |
|---------------------|--|------------------------------|-------------------------|
|                     |  |                              |                         |
| o. Organic Chemi    | cals, Plastics, and Syntheti                               | c Fibers Manufacturing l     | Data (40 CFR Part 414)  |
| Provide each applic | cable subpart and the perce<br>le-bearing wastestreams, as | ent of total production. Pr  | ovide data for metal-   |
| Percentage of Total | Production   |                              |                         |
| Subcategory         | Percent of Total<br>Production                             | Appendix A and B -<br>Metals | Appendix A -<br>Cyanide |
| NA                  |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
| c. Refineries (40 ( | CFR Part 419)  |                              |                         |
|                     | able subcategory and a brief                               | f justification.             |                         |
| Not Applicable      |  |                              |                         |
| **                  |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |
|                     |  |                              |                         |

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

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

| All wastewater is non-process wastewater made primarily of various utility wastewaters. No wastewater is generated from scrubbers or ash systems.  |
|--|
|  |
|  |
|  |
|  |
| 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. |
| Western County County December College to Efficient College  |

| <b>Wastewater Generating</b> | Processes Subject to Efflu | ient Guidelines |
|------------------------------|----------------------------|-----------------|
|                              |                            |                 |

| Process          | EPA Guideline Part | EPA Guideline<br>Subpart | Date Process/<br>Construction<br>Commenced       |
|------------------|--------------------|--------------------------|--|
| Power Generation | 423                |                          | 1999 (Commercial<br>Operation Date June<br>2000) |
|                  |                    |                          |  |
|                  |                    |                          |  |
|                  |                    |                          |  |
|                  |                    |                          |  |
|                  |                    |                          |  |
|                  |                    |                          |  |

# 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): 03/19/2025-04/09/2025
- 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>I</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:** Click to enter text.

#### 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.: <u><b>001</b></u> | Samples are (check one): $\Box$ | Composite | $\boxtimes$ | Grab |
|--|---------------------------------|-----------|-------------|------|
|--|---------------------------------|-----------|-------------|------|

| Pollutant               | Sample 1<br>(mg/L) | Sample 2<br>(mg/L) | Sample 3<br>(mg/L) | Sample 4<br>(mg/L) |
|-------------------------|--------------------|--------------------|--------------------|--------------------|
| BOD (5-day)             | 4.11               | 4.67               | 3.15               | 3.85               |
| CBOD (5-day)            | 2.36               | 2.09               | 3.95               | 2.93               |
| Chemical oxygen demand  | 24.5               | 54.0               | 51.9               | 30.8               |
| Total organic carbon    | 15.9               | 23.8               | 19.4               | 13.0               |
| Dissolved oxygen        | 7.4                | 7.3                | 6.8                | 8.5                |
| Ammonia nitrogen        | < 0.02             | 0.12               | 0.34               | < 0.02             |
| Total suspended solids  | 29.0               | 34.7               | 44.4               | 4.10               |
| Nitrate nitrogen        | 61.7               | 102                | 79.3               | 44.4               |
| Total organic nitrogen  | 6.95               | 4.52               | 3.24               | 2.09               |
| Total phosphorus        | 9.62               | 13.2               | 13.8               | 6.67               |
| Oil and grease          | < 4.71             | < 4.6              | < 4.88             | < 4.65             |
| Total residual chlorine | 0.00               | 0.03               | 0.03               | 0.01               |

| Pollutant                        | Sample 1<br>(mg/L) | Sample 2<br>(mg/L) | Sample 3 (mg/L) | Sample 4<br>(mg/L) |
|----------------------------------|--------------------|--------------------|-----------------|--------------------|
| Total dissolved solids           | 3470               | 5000               | 4560            | 3040               |
| Sulfate                          | 1130               | 1730               | 1620            | 1150               |
| Chloride                         | 937                | 1510               | 1310            | 839                |
| Fluoride                         | < 0.5              | < 0.5              | < 0.5           | < 0.5              |
| Total alkalinity (mg/L as CaCO3) | 19.7               | 29.6               | 31.6            | 12.2               |
| Temperature (°F)                 | 77.0               | 84.2               | 95.0            | 73.4               |
| pH (standard units)              | 6.6                | 6.7                | 6.6             | 6.5                |

Table 2 for Outfall No.: <u>oo1</u> Samples are (check one): □ Composite ⊠ Grab

| Samples are (check one).  Composite  Grab |                    |                    |                 |                    |              |
|---|--------------------|--------------------|-----------------|--------------------|--------------|
| Pollutant                                 | Sample 1<br>(µg/L) | Sample 2<br>(µg/L) | Sample 3 (µg/L) | Sample 4<br>(µg/L) | MAL (μg/L)   |
| Aluminum, total                           | 952                | 973                | 1006            | 42.5               | 2.5          |
| Antimony, total                           | < 5                | 12.2               | 5.7             | < 5                | 5            |
| Arsenic, total                            | 9.7                | 12.8               | 14.7            | 8.6                | 0.5          |
| Barium, total                             | 184                | 308                | 282             | 152                | 3            |
| Beryllium, total                          | < 1                | < 0.5              | < 1             | < 0.5              | 0.5          |
| Cadmium, total                            | < 1                | < 1                | < 1             | < 1                | 1            |
| Chromium, total                           | 6.0                | 6.8                | 5.7             | < 3                | 3            |
| Chromium, hexavalent                      | < 3                | < 3                | < 3             | < 3                | 3            |
| Chromium, trivalent                       | 3.0                | 3.8                | 2.7             | < 3                | N/A          |
| Copper, total                             | 24.5               | 25.8               | 22.1            | 15.9               | 2            |
| Cyanide, available                        | < 10               | < 10               | < 10            | < 10               | 2/10         |
| Lead, total                               | < 1                | 0.7                | < 1             | < 0.5              | 0.5          |
| Mercury, total                            | < 0.005            | < 0.005            | < 0.005         | < 0.005            | 0.005/0.0005 |
| Nickel, total                             | 7.2                | 10.9               | 3.9             | 6.3                | 2            |
| Selenium, total                           | < 5                | < 5                | < 5             | < 5                | 5            |
| Silver, total                             | < 1                | < 1                | < 1             | < 0.5              | 0.5          |
| Thallium, total                           | < 1                | < 1                | < 1             | < 1                | 0.5          |
| Zinc, total                               | 126                | 172                | 96              | 90                 | 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).

| Pollutant                                      | Sample 1 (µg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(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<br>[Dichlorobromomethane] |                  |                     |                  |                     | 10             |
| Bromoform                                      |                  |                     |                  |                     | 10             |
| Carbon tetrachloride                           |                  |                     |                  |                     | 2              |
| Chlorobenzene                                  |                  |                     |                  |                     | 10             |
| Chlorodibromomethane<br>[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<br>[1,3-Dichlorobenzene]     |                  |                     |                  |                     | 10             |
| o-Dichlorobenzene<br>[1,2-Dichlorobenzene]     |                  |                     |                  |                     | 10             |
| p-Dichlorobenzene<br>[1,4-Dichlorobenzene]     |                  |                     |                  |                     | 10             |
| 3,3'-Dichlorobenzidine                         |                  |                     |                  |                     | 5              |
| 1,2-Dichloroethane                             |                  |                     |                  |                     | 10             |

| Pollutant                                      | Sample 1 (μg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL<br>(μg/L)* |
|--|------------------|---------------------|------------------|------------------|----------------|
| 1,1-Dichloroethene<br>[1,1-Dichloroethylene]   |                  |                     |                  |                  | 10             |
| Dichloromethane<br>[Methylene chloride]        |                  |                     |                  |                  | 20             |
| 1,2-Dichloropropane                            |                  |                     |                  |                  | 10             |
| 1,3-Dichloropropene<br>[1,3-Dichloropropylene] |                  |                     |                  |                  | 10             |
| 2,4-Dimethylphenol                             |                  |                     |                  |                  | 10             |
| Di-n-Butyl phthalate                           |                  |                     |                  |                  | 10             |
| Epichlorohydrin<br>(1-Chloro-2,3-epoxypropane) |                  |                     |                  |                  |                |
| Ethylbenzene                                   |                  |                     |                  |                  | 10             |
| Ethylene Glycol                                |                  |                     |                  |                  |                |
| Fluoride                                       |                  |                     |                  |                  | 500            |
| Hexachlorobenzene                              |                  |                     |                  |                  | 5              |
| Hexachlorobutadiene                            |                  |                     |                  |                  | 10             |
| Hexachlorocyclopentadiene                      |                  |                     |                  |                  | 10             |
| Hexachloroethane                               |                  |                     |                  |                  | 20             |
| 4,4'-Isopropylidenediphenol (bisphenol A)      |                  |                     |                  |                  | 1              |
| Methyl ethyl ketone                            |                  |                     |                  |                  | 50             |
| Methyl tert-butyl ether (MTBE)                 |                  |                     |                  |                  |                |
| 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<br>[Tetrachloroethylene]     |                  |                     |                  |                  | 10             |

| Pollutant                              | Sample 1<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L)* |
|--|---------------------|---------------------|------------------|---------------------|----------------|
| Toluene                                |                     |                     |                  |                     | 10             |
| 1,1,1-Trichloroethane                  |                     |                     |                  |                     | 10             |
| 1,1,2-Trichloroethane                  |                     |                     |                  |                     | 10             |
| Trichloroethene<br>[Trichloroethylene] |                     |                     |                  |                     | 10             |
| 2,4,5-Trichlorophenol                  |                     |                     |                  |                     | 50             |
| TTHM (Total trihalomethanes)           |                     |                     |                  |                     | 10             |
| Vinyl chloride                         | (7                  |                     |                  |                     | 10             |

<sup>(\*)</sup> Indicate units if different from μg/L.

 $\bowtie$  No

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

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

#### a. Tributyltin

□ Yes

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?

|  | check the box next to each of the following criteria which apply and provide the briate 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.  |

- ☐ Operation and maintenance of marine cargo handling facilities and marinas.
- ☐ Facilities engaged in wood preserving.

Ship and boat cleaning, salvage, wrecking and scaling.

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 |
|-----|----|
| Yes | No |

<sup>(\*\*)</sup> 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 "<".

| □ Yes ⊠ No   | )  |                                       |                                     |                      |                 |                     |             |       |
|--|--|---------------------------------------|-------------------------------------|----------------------|-----------------|---------------------|-------------|-------|
| If <b>yes to either</b> question   | n, provide the                                 | appropria                             | ite testing                         | results i            | n Tab           | le 4 bel            | ow.         |       |
| c. E. coli (discharge to fre   | shwater)                                       |                                       |                                     |                      |                 |                     |             |       |
| This facility discharges/<br>E. coli bacteria are expec  | proposes to c                                  |                                       |                                     |                      |                 |                     |             |       |
| □ Yes ⊠ No   | )  |                                       |                                     |                      |                 |                     |             |       |
| Domestic wastewater is,  | /will be discha                                | arged.                                |                                     |                      |                 |                     |             |       |
| □ Yes ⊠ No   | )  |                                       |                                     |                      |                 |                     |             |       |
| If <b>yes to either</b> question   | , provide the                                  | appropria                             | ite testing                         | results i            | n Tab           | le 4 bel            | ow.         |       |
| Table 4 for Outfall No.: Click   | to enter text.                                 | Sample                                | s are (check                        | c one): □            | Cor             | nposite             |             | Grab  |
| Pollutant  |  |                                       | Sample 2                            | Samp                 |                 | Sampl               | e 4         | MAL   |
| Tributyltin (µg/L)   |  |                                       |                                     |                      |                 |                     |             | 0.010 |
| Enterococci (cfu or MPN/1  | 00 mL)   |                                       |                                     |                      |                 |                     |             | N/A   |
| E. coli (cfu or MPN/100 mI   | .)   |                                       |                                     |                      |                 |                     |             | N/A   |
| TABLE 5 (Instructions, Pag   |  |                                       |                                     |                      |                 |                     |             |       |
| Completion of Table 5 is rewastewater from a facility wastewaters which may con If this facility does not/will not/will not discharge othe N/A | which manufa<br>ntain pesticide<br>not manufac | ctures or<br>es or herb<br>ture or fo | formulates<br>icides.<br>rmulate pe | pesticio<br>sticides | des or<br>or he | herbici<br>rbicides | ides o      | does  |
| Table 5 for Outfall No.: Click   | to enter text.                                 | Sample                                | s are (checl                        |                      | Coı             | nposite             |             | Grab  |
| Pollutant  | Sample 1<br>(µg/L)*                            | Sample (µg/L)*                        | 2 Samp<br>(μg/I                     |                      | Sam<br>(µg/     |                     | MAI<br>(μg/ |       |
| 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]  |  |                                       |                                     |                      |                 |                     | _           |       |

Domestic wastewater is/will be discharged.

Demeton

Diazinon

0.20

0.5/0.1

| Pollutant  | Sample 1<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL<br>(μg/L)* |
|--|---------------------|---------------------|------------------|------------------|----------------|
| Dicofol [Kelthane]                               |                     |                     |                  |                  | 1              |
| Dieldrin   |                     |                     |                  |                  | 0.02           |
| Diuron   |                     |                     |                  |                  | 0.090          |
| Endosulfan I ( <i>alpha</i> )                    |                     |                     |                  |                  | 0.01           |
| Endosulfan II ( <i>beta</i> )                    |                     |                     |                  |                  | 0.02           |
| Endosulfan sulfate                               |                     |                     |                  |                  | 0.1            |
| Endrin   |                     |                     |                  |                  | 0.02           |
| Guthion<br>[Azinphos methyl]                     |                     |                     |                  |                  | 0.1            |
| Heptachlor                                       |                     |                     |                  |                  | 0.01           |
| Heptachlor epoxide                               |                     |                     |                  |                  | 0.01           |
| Hexachlorocyclohexane (alpha)                    |                     |                     |                  |                  | 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            |

<sup>\*</sup> 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.: **oo1** Samples are (check one): □ Composite ☒ Grab

| Pollutants             | Believed<br>Present | Believed<br>Absent | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) | MAL<br>(μg/L)* |
|------------------------|---------------------|--------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Bromide                |                     | $\boxtimes$        |                 |                 |                 |                 | 400            |
| Color (PCU)            | $\boxtimes$         |                    | 25              |                 |                 |                 | _              |
| Nitrate-Nitrite (as N) | $\boxtimes$         |                    | 63.1            |                 |                 |                 | _              |
| Sulfide (as S)         |                     |                    |                 |                 |                 |                 | _              |
| Sulfite (as SO3)       |                     |                    |                 |                 |                 |                 | _              |
| Surfactants            |                     |                    |                 |                 |                 |                 | _              |
| Boron, total           |                     | $\boxtimes$        |                 |                 |                 |                 | 20             |
| Cobalt, total          |                     | $\boxtimes$        |                 |                 |                 |                 | 0.3            |
| Iron, total            |                     | $\boxtimes$        |                 |                 |                 |                 | 7              |
| Magnesium, total       | $\boxtimes$         |                    | 81.4            |                 |                 |                 | 20             |
| Manganese, total       |                     | $\boxtimes$        |                 |                 |                 |                 | 0.5            |
| Molybdenum, total      |                     | $\boxtimes$        |                 |                 |                 |                 | 1              |
| Tin, total             |                     | $\boxtimes$        |                 |                 |                 |                 | 5              |
| Titanium, total        |                     | $\boxtimes$        |                 |                 |                 |                 | 30             |

### **TABLE 7 (Instructions, Page 60)**

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

□ N/A

**Table 7 for Applicable Industrial Categories** 

| Ind         | ustrial Category                              | 40 CFR<br>Part |             | latiles<br>ole 8 | Aci<br>Tal  | ds<br>ole 9 | Net | ses/<br>utrals<br>ole 10 |    | sticides<br>ble 11 |
|-------------|---|----------------|-------------|------------------|-------------|-------------|-----|--------------------------|----|--------------------|
|             | Adhesives and Sealants                        |                |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Aluminum Forming                              | 467            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Auto and Other Laundries                      |                |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Battery Manufacturing                         | 461            |             | Yes              | No          |             |     | Yes                      | No |                    |
|             | Coal Mining                                   | 434            | No          |                  | No          |             | No  |                          | No |                    |
|             | Coil Coating                                  | 465            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Copper Forming                                | 468            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Electric and Electronic Components            | 469            |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Electroplating                                | 413            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Explosives Manufacturing                      | 457            | No          |                  |             | Yes         |     | Yes                      | No |                    |
|             | Foundries                                     |                |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Gum and Wood Chemicals - Subparts A,B,C,E     | 454            |             | Yes              |             | Yes         | No  |                          | No |                    |
|             | Gum and Wood Chemicals - Subparts D,F         | 454            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Inorganic Chemicals Manufacturing             | 415            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Iron and Steel Manufacturing                  | 420            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Leather Tanning and Finishing                 | 425            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Mechanical Products Manufacturing             |                |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Nonferrous Metals Manufacturing               | 421,471        |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Oil and Gas Extraction - Subparts A, D, E, F, | 435            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
| _           | G, H  |                |             | 100              | _           | 100         | _   | 100                      |    |                    |
|             | Ore Mining - Subpart B                        | 440            | No          |                  |             | Yes         | No  |                          | No |                    |
|             | Organic Chemicals Manufacturing               | 414            |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Paint and Ink Formulation                     | 446,447        |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Pesticides                                    | 455            |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Petroleum Refining                            | 419            |             | Yes              | No          |             | No  |                          | No |                    |
|             | Pharmaceutical Preparations                   | 439            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Photographic Equipment and Supplies           | 459            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Plastic and Synthetic Materials Manufacturing | 414            |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Plastic Processing                            | 463            |             | Yes              | No          |             | No  |                          | No |                    |
|             | Porcelain Enameling                           | 466            | No          |                  | No          |             | No  |                          | No |                    |
|             | Printing and Publishing                       |                |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |
|             | Pulp and Paperboard Mills - Subpart C         | 430            |             | *                |             | Yes         |     | *                        |    | Yes                |
|             | Pulp and Paperboard Mills - Subparts F, K     | 430            |             | *                |             | Yes         |     | *                        |    | *                  |
|             | Pulp and Paperboard Mills - Subparts A, B, D, | 430            |             | Yes              |             | Yes         |     | *                        |    | *                  |
|             | G, H  |                |             |                  |             |             |     |                          |    |                    |
|             | 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 |                    |
| $\boxtimes$ | Steam Electric Power Plants                   | 423            | $\boxtimes$ | Yes              | $\boxtimes$ | Yes         | No  |                          | No |                    |
|             | Textile Mills (Not Subpart C)                 | 410            |             | Yes              |             | Yes         |     | Yes                      | No |                    |
|             | Timber Products Processing                    | 429            |             | Yes              |             | Yes         |     | Yes                      |    | Yes                |

<sup>\*</sup> 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.:  $\underline{\mathbf{oo_1}}$  Samples are (check one):  $\square$  Composite  $\boxtimes$  Grab

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

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

<sup>\*</sup> Indicate units if different from µg/L.

Table 9 for Outfall No.: <u>oo1</u> Samples are (check one): □ Composite ⊠ Grab

|                       | r                   | nes are (eneer      |                  | mposite <b>L</b>    |               |
|-----------------------|---------------------|---------------------|------------------|---------------------|---------------|
| Pollutant             | Sample 1<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L) |
| 2-Chlorophenol        | < 10                | < 10                | < 10             | < 10                | 10            |
| 2,4-Dichlorophenol    | < 10                | < 10                | < 10             | < 10                | 10            |
| 2,4-Dimethylphenol    | < 10                | < 10                | < 10             | < 10                | 10            |
| 4,6-Dinitro-o-cresol  | < 50                | < 50                | < 50             | < 50                | 50            |
| 2,4-Dinitrophenol     | < 50                | < 50                | < 50             | < 50                | 50            |
| 2-Nitrophenol         | < 20                | < 20                | < 20             | < 20                | 20            |
| 4-Nitrophenol         | < 50                | < 50                | < 50             | < 50                | 50            |
| p-Chloro-m-cresol     | < 10                | < 10                | < 10             | < 10                | 10            |
| Pentachlorophenol     | < 5                 | < 5                 | < 5              | < 5                 | 5             |
| Phenol                | < 10                | < 10                | < 10             | < 10                | 10            |
| 2,4,6-Trichlorophenol | < 10                | < 10                | < 10             | < 10                | 10            |

<sup>\*</sup> Indicate units if different from µg/L.

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

| Pollutant                                       | Sample 1<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3<br>(µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L) |
|---|---------------------|---------------------|---------------------|---------------------|---------------|
| Acenaphthene                                    |                     |                     |                     |                     | 10            |
| Acenaphthylene                                  |                     |                     |                     |                     | 10            |
| Anthracene                                      |                     |                     |                     |                     | 10            |
| Benzidine                                       |                     |                     |                     |                     | 50            |
| Benzo(a)anthracene                              |                     |                     |                     |                     | 5             |
| Benzo(a)pyrene                                  |                     |                     |                     |                     | 5             |
| 3,4-Benzofluoranthene<br>[Benzo(b)fluoranthene] |                     |                     |                     |                     | 10            |
| Benzo(ghi)perylene                              |                     |                     |                     |                     | 20            |
| Benzo(k)fluoranthene                            |                     |                     |                     |                     | 5             |
| Bis(2-chloroethoxy)methane                      |                     |                     |                     |                     | 10            |

| Pollutant                                  | Sample 1<br>(µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL<br>(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<br>[o-Dichlorobenzene] |                     |                  |                  |                  | 10            |
| 1,3-Dichlorobenzene<br>[m-Dichlorobenzene] |                     |                  |                  |                  | 10            |
| 1,4-Dichlorobenzene<br>[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<br>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<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3 (µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L) |
|---------------------------|---------------------|---------------------|------------------|---------------------|---------------|
| N-Nitrosodi-n-propylamine |                     |                     |                  |                     | 20            |
| N-Nitrosodiphenylamine    |                     |                     |                  |                     | 20            |
| Phenanthrene              |                     |                     |                  |                     | 10            |
| Pyrene                    |                     |                     |                  |                     | 10            |
| 1,2,4-Trichlorobenzene    |                     |                     |                  |                     | 10            |

<sup>\*</sup> Indicate units if different from µg/L.

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

| Pollutant                                  | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L) |
|--|------------------|------------------|------------------|---------------------|---------------|
| Aldrin                                     |                  |                  |                  |                     | 0.01          |
| alpha-BHC<br>[alpha-Hexachlorocyclohexane] |                  |                  |                  |                     | 0.05          |
| beta-BHC<br>[beta-Hexachlorocyclohexane]   |                  |                  |                  |                     | 0.05          |
| gamma-BHC<br>[gamma-Hexachlorocyclohexane] |                  |                  |                  |                     | 0.05          |
| delta-BHC<br>[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           |
|  |                  |                  |                  | 1                   | 1             |

| Pollutant | Sample 1<br>(µg/L)* | Sample 2<br>(µg/L)* | Sample 3<br>(µg/L)* | Sample 4<br>(µg/L)* | MAL<br>(μg/L) |
|-----------|---------------------|---------------------|---------------------|---------------------|---------------|
| PCB 1260  |                     |                     |                     |                     | 0.2           |
| PCB 1016  |                     |                     |                     |                     | 0.2           |
| Toxaphene |                     |                     |                     |                     | 0.3           |

<sup>\*</sup> Indicate units if different from µg/L.

Attachment: Click to enter text.

#### TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

□ Yes ⊠ No

Description: Click to enter text.

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

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

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

| Compound             | Toxicity<br>Equivalent<br>Factors | Wastewater<br>Concentration<br>(ppq) | Wastewater<br>Toxicity<br>Equivalents<br>(ppq) | Sludge<br>Concentration<br>(ppt) | Sludge<br>Toxicity<br>Equivalents<br>(ppt) | MAL (ppq) |
|----------------------|-----------------------------------|--------------------------------------|--|----------------------------------|--|-----------|
| 2,3,7,8-TCDF         | 0.1                               |                                      |  |                                  |  | 10        |
| 1,2,3,7,8-<br>PeCDF  | 0.03                              |                                      |  |                                  |  | 50        |
| 2,3,4,7,8-<br>PeCDF  | 0.3                               |                                      |  |                                  |  | 50        |
| 2,3,7,8-<br>HxCDFs   | 0.1                               |                                      |  |                                  |  | 50        |
| 2,3,4,7,8-<br>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.

| Pollutant | CASRN | Sample 1<br>(µg/L) | Sample 2<br>(µg/L) | Sample 3 (µg/L) | Sample<br>4 (µg/L) | Analytical<br>Method |
|-----------|-------|--------------------|--------------------|-----------------|--------------------|----------------------|
|           |       |                    |                    |                 |                    |                      |
|           |       |                    |                    |                 |                    |                      |
|           |       |                    |                    |                 |                    |                      |
|           |       |                    |                    |                 |                    |                      |
|           |       |                    |                    |                 |                    |                      |

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet is required for all TPDES permit applications.

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

| a.   | There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge. |
|------|---|
|      | □ Yes ⊠ No  |
|      | If <b>no</b> , stop here and proceed to Item 2. If <b>yes</b> , provide the following information:  |
|      | 1. The legal name of the owner of the drinking water supply intake: <u>Click to enter text.</u>   |
|      | 2. The distance and direction from the outfall to the drinking water supply intake: <u>Click to enter text.</u>   |
| b.   | Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.   |
|      | $\square$ Check this box to confirm the above requested information is provided.  |
| Ito  | em 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)  |
|      | the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to m 3.  |
| a.   | Width of the receiving water at the outfall: <u>Click to enter text.</u> feet   |
| b.   | Are there oyster reefs in the vicinity of the discharge?  |
|      | □ Yes □ No  |
|      | If <b>yes</b> , provide the distance and direction from the outfall(s) to the oyster reefs: <u>Click to enter text.</u>                                 |
| c.   | Are there sea grasses within the vicinity of the point of discharge?  |
|      | □ Yes □ No  |
|      | If <b>yes</b> , provide the distance and direction from the outfall(s) to the grasses: Click to enter text.   |
| Ite  | em 3. Classified Segment (Instructions, Page 80)  |
| Th   | e discharge is/will be directly into (or within 300 feet of) a classified segment.  |
|      | □ Yes ⊠ No  |
| If y | yes, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.  |
| If 1 | <b>no</b> , complete Items 4 and 5 and Worksheet 4.1 may be required.   |

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

Drain III

a. Name of the immediate receiving waters: Hidalgo County Drainage District No. 1 North Main

| b. | Che         | eck 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): Click to enter text.   |
|    | $\boxtimes$ | Man-Made Channel or Ditch  |
|    |             | Stream or Creek  |
|    |             | Freshwater Swamp or Marsh  |
|    |             | Tidal Stream, Bayou, or Marsh  |
|    |             | Open Bay   |
|    |             | Other, specify:  |
|    |             | -Made Channel or Ditch or Stream or Creek were selected above, provide responses to 4.c - 4.g below:   |
| c. |             | existing discharges, check the description below that best characterizes the area stream of the discharge.   |
|    |             | new discharges, check the description below that best characterizes the area wnstream 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)   |
|    |             | eck the source(s) of the information used to characterize the area upstream (existing charge) or downstream (new discharge):   |
|    |             | □ USGS flow records  |
|    |             | personal observation   |
|    |             | historical observation by adjacent landowner(s)  |
|    |             | □ other, specify: <u>Click to enter text.</u>  |
| d. | dov         | t the names of all perennial streams that join the receiving water within three miles wnstream of the discharge point: <u>None, North Main Drain II to North Main Drain II to North in Drain I is more than 3 miles. This is a controlled drainage system.</u> |

| e. |             |       |                              |             | characteristics<br>made dams, p    | •                     |             | ree miles downstream of the discharge etc.). |
|----|-------------|-------|------------------------------|-------------|------------------------------------|-----------------------|-------------|--|
|    | [           |       | Yes                          | $\boxtimes$ | No                                 |                       |             |  |
|    | If y        | es, ( | describe                     | how:        | Click to enter                     | r text.               |             |  |
| f. |             |       | l observa<br>bit murk        |             | of the water                       | body during           | norm        | nal dry weather conditions: Slow moving      |
|    | Date        | e ar  | nd time o                    | of obs      | ervation: <u>5/1</u> 5             | <u>/2025 10:15 ar</u> | <u>n</u>    |  |
| g. | The         | wa    | ter body                     | was         | influenced by                      | stormwater r          | unof        | f during observations.                       |
|    | [           |       | Yes                          | $\boxtimes$ | No                                 |                       |             |  |
|    | If y        | es, ( | describe                     | how:        | Click to enter                     | r text.               |             |  |
| It | em          | 5.    | Gene                         | ral         | Characte                           | ristics of            | Wa          | ater Body (Instructions,                     |
|    |             |       | Page                         |             |                                    |                       |             | ,      |
| a. |             |       |                              |             | r upstream of<br>the following     |                       |             | narge or proposed discharge site ply):       |
|    |             | oil   | field act                    | ivitie      | S                                  |                       | $\boxtimes$ | urban runoff                                 |
|    | $\boxtimes$ | ag    | ricultura                    | l run       | off                                |                       |             | septic tanks                                 |
|    | $\boxtimes$ | up    | stream o                     | discha      | arges                              |                       |             | other, specify: <u>Click to enter text.</u>  |
| b. | Use         | s of  | water b                      | ody o       | bserved or ev                      | idence of suc         | h us        | es (check all that apply):                   |
|    |             | live  | estock w                     | aterir      | ng                                 |                       |             | industrial water supply                      |
|    |             | no    | n-contac                     | t recr      | eation                             |                       | $\boxtimes$ | irrigation withdrawal                        |
|    |             | do    | mestic w                     | ater        | supply                             |                       |             | navigation                                   |
|    |             | COI   | ntact rec                    | reatio      | on                                 |                       |             | picnic/park activities                       |
|    |             | fis   | hing                         |             |                                    |                       |             | other, specify: <u>Click to enter text.</u>  |
| c. |             |       | otion whi<br>neck only       |             |                                    | he aesthetics         | of th       | ne receiving water and the surrounding       |
|    |             |       | lderness<br>arity exc        |             | _                                  | ral beauty; us        | ually       | wooded or un-pastured area: water            |
|    |             |       |                              |             | ees or native v<br>, dwellings); w | •                     |             | n; some development evident (from ored       |
|    |             |       | <b>mmon S</b><br>rbid        | ettin       | <b>g:</b> not offensi              | ve, developed         | but         | uncluttered; water may be colored or         |
|    |             |       | <b>fensive:</b><br>eas; wate |             |                                    | nhance aesthe         | etics;      | cluttered; highly developed; dumping         |



#### Koch, Nancy

Subject:

FW: [EXT]:Fw: TCEQ ePay Receipt for 582EA000675412

----Original Message----

From: steers@tceq.texas.gov <steers@tceq.texas.gov>

Sent: Tuesday, July 8, 2025 10:03 AM

To: Ada DeLeon <Ada.Deleon@calpine.com> Subject: TCEQ ePay Receipt for 582EA000675412

[You don't often get email from steers@tceq.texas.gov. Learn why this is important at

https://aka.ms/LearnAboutSenderIdentification]



#### ▲ EXTERNAL SENDER ▲



Do not click links, open attachments or enter your ID/Password unless you recognize the sender and are certain the content is safe. If anything appears suspicious, report it.

Consider the following before taking action: Were you expecting this email? Can you verify the sender? Are the grammar and spelling correct? Does the content or request make sense?

This is an automated message from the TCEQ ePay system. Please do not reply.

Trace Number: 582EA000675412 Date: 07/08/2025 10:03 AM

Payment Method: CC - Authorization 0000093178 TCEQ Amount: \$2,015.00 Texas.gov Fee: \$45.59 Texas.gov Price:

\$2,060.59\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Actor: ADA DELEON Email: adeleon@calpine.com

Payment Contact: ADA DELEON

Phone: 956-587-3295

Company: CALPINE HIDALGO ENERGY

Address: 4005 N SEMINARY RD, EDINBURG, TX 78541

Fees Paid:

Fee Description AR Number Amount

WW PERMIT - MAJOR INDUSTRIAL FACILITY - RENEWAL \$2,000.00

30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE \$15.00

TCEQ Amount: \$2,015.00

Voucher: 773993

Trace Number: 582EA000675412 Date: 07/08/2025 10:03 AM

Payment Method: CC - Authorization 0000093178 Voucher Amount: \$2,000.00 Fee Paid: WW PERMIT - MAJOR INDUSTRIAL FACILITY - RENEWAL Site Name: CALPINE HIDALGO ENERGY CENTER Site Address: 4005 N SEMINARY RD, EDINBURG, TX 78541 Site Location: 4005 N SEMINARY RD EDINBURG TX 78541 Customer Name: CALPINE OPERATING SERVICES COMPANY INC Customer Address: 717 TEXAS AVENUE SUITE 1000,

HOUSTON, TX 77002 Program Area ID: 0004138

-----

Voucher: 773994

Trace Number: 582EA000675412 Date: 07/08/2025 10:03 AM

Payment Method: CC - Authorization 0000093178 Voucher Amount: \$15.00 Fee Paid: 30 TAC 305.53B WQ RENEWAL

NOTIFICATION FEE

------

\_\_\_\_

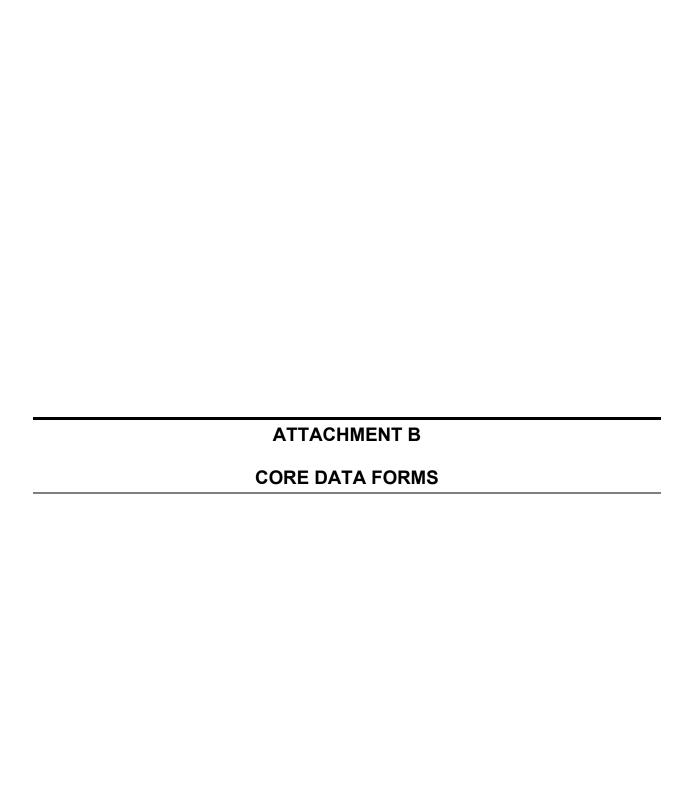
To print out a copy of the receipt and vouchers for this transaction either click on or copy and paste the following url into vour browser:

https://www3.tceq.texas.gov/epay/index.cfm?fuseaction=cor.search&trace\_num\_txt=582EA000675412.

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# **TCEQ Core Data Form**

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

## **SECTION I: General Information**

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

|                             | (Core Data F | orm should be subm                      | itted with the ren  | ewal form)                                 |              |              | Other  |             |               |                 |  |
|-----------------------------|--------------|---|---------------------|--|--------------|--------------|--|-------------|---------------|-----------------|--|
| 2. Customer I<br>CN 6001319 |              | Number (if issued)                      | _                   | ollow this li<br>or CN or RN<br>Central Re | numbers      | <u>in</u>    | 3. Regulated Entity Reference Number (if issued)  RN 100224989 |             |               |                 |  |
| ECTION 4. General Cu        |              | Customer<br>formation                   |                     |  |              | nformatior   | <b>1 Updates</b> (mm/d   | d/yyyy)     |               | 7/1/2025        |  |
| DN: Cala                    |              | N .                                     | La da La Carta de   |  |              |              | '. D lated 5   |             |               |                 |  |
| New Custor     Change in Le |              | ا 🔼<br>Verifiable with the Te           | Jpdate to Custom    |  |              | _            | inge in Regulated E<br>lic Accounts)                           | intity Own  | ersnip        |                 |  |
|                             |              |   | •                   |  |              |              | •  |             |               |                 |  |
|                             |              | bmitted here may<br>ller of Public Acco | -                   | tomaticall                                 | y based (    | on what is   | current and activ  | e with ti   | he Texas Sec  | retary of State |  |
| 5. Customer I               | Legal Nam    | e (If an individual, pr                 | int last name firs  | t: eg: Doe, J                              | ohn)         |              | If new Custome   | r, enter pr | evious Custom | er below:       |  |
| Calpine Hidalgo             | Energy Cer   | nter, LP                                |                     |  |              |              |  |             |               |                 |  |
| 7. TX SOS/CP                | A Filing Nu  | ımber                                   | 8. TX State T       | ate Tax ID (11 digits)                     |              |              | 9. Federal Tax ID 10. DUNS                                     |             | 10. DUNS I    | Number (if      |  |
| 301388449                   |              |   | 17605735236         |  |              |              | (9 digits)   |             | applicable)   |                 |  |
|                             |              |   |                     | 2.003.00200                                |              |              |  |             | not applica   |                 |  |
| 11. Type of C               | ustomer:     | Corpora                                 | tion                |  |              | ☐ Indivi     | idual Partnership: ☐ General ⊠ Lim                             |             |               | eral 🔀 Limited  |  |
| Government:                 | City C       | ounty 🗌 Federal 🗌                       | Local   State       | Other                                      |              | ☐ Sole F     | Proprietorship   | ☐ Ot        | her:          |                 |  |
| 12. Number o                | of Employe   | es                                      |                     |  |              |              | 13. Independe  | ently Ow    | ned and Ope   | erated?         |  |
| □ 0-20   ⊠ 2                | 21-100       | ] 101-250                               | -500 🔲 501 a        | nd higher                                  |              |              | ⊠ Yes  | □No         |               |                 |  |
| 14. Customer                | Role (Prop   | oosed or Actual) – as                   | it relates to the R | Regulated Er                               | ntity listed | on this form | . Please check one   | of the foll | owing         |                 |  |
| ⊠Owner<br>☐Occupationa      | al Licensee  | Operator Responsible Pa                 | <del>_</del>        | ner & Opera<br>CP/BSA App                  |              |              | ☐ Othe   | r:          |               |                 |  |
| 15. Mailing                 | 717 Texas    | Avenue, Suite 1000                      |                     |  |              |              |  |             |               |                 |  |
| Address:                    | <u> </u>     |   |                     |  |              |              |  |             |               |                 |  |
|                             | City         | Houston                                 |                     | State                                      | TX           | ZIP          | 77002  |             | ZIP + 4       |                 |  |
| 16. Country N               | Mailing Info | ormation (if outside                    | USA)                |  | 1            | 7. E-Mail A  | ddress (if applica   | ble)        |               |                 |  |
|                             |              |   |                     |  | t            | y.pate@calp  | ine.com  |             |               |                 |  |

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| ( /13 ) 830-8358   |                       |                     |                          |                            |          |         | ,   | -                      |             |                  |
|--|-----------------------|---------------------|--------------------------|----------------------------|----------|---------|---|------------------------|-------------|------------------|
| ECTION III: I  | Regula                | ited Ent            | ity Inforn               | natio                      | 1        |         |   |                        |             |                  |
| 21. General Regulated En   | tity Informa          | tion (If 'New Reg   | gulated Entity" is seled | cted, a new                | permit   | applica | tion is also                                  | required.)             |             |                  |
| ☐ New Regulated Entity   | Update to             | Regulated Entity    | Name Update              | to Regulate                | d Entity | Inform  | ation   |                        |             |                  |
| The Regulated Entity Nan as Inc, LP, or LLC).  | ne submitte           | d may be upda       | ted, in order to me      | et TCEQ C                  | ore Da   | ta Star | ndards (re                                    | moval of o             | rganization | nal endings such |
| 22. Regulated Entity Nam   | e (Enter nam          | e of the site wher  | re the regulated action  | n is taking p              | lace.)   |         |   |                        |             |                  |
| Calpine Hidalgo Energy Cente   | er                    |                     |                          |                            |          |         |   |                        |             |                  |
| 23. Street Address of the Regulated Entity:  | 4005 N. Sen           | ninary Road         |                          |                            |          |         |   |                        |             |                  |
| (No PO Boxes)  | City                  | Edinburg            | State                    | TX                         | ZIP      |         | 78541   |                        | ZIP + 4     |                  |
| 24. County   | Hidalgo               |                     |                          |                            |          |         |   |                        | <u> </u>    | <u> </u>         |
|  |                       | If no Stree         | et Address is provid     | ded, fields                | 25-28    | are re  | quired.                                       |                        |             |                  |
| 25. Description to   |                       |                     |                          |                            |          |         |   |                        |             |                  |
| Physical Location:   |                       |                     |                          |                            |          |         |   |                        |             |                  |
| 26. Nearest City   |                       |                     |                          |                            |          |         | State   |                        | Nea         | rest ZIP Code    |
| Latitude/Longitude are re<br>used to supply coordinate<br>27. Latitude (N) In Decima | es where no           | -                   | -                        | accuracy).                 |          |         | rds. (Geod                                    |                        | he Physical |                  |
| Degrees  | Minutes               |                     | Seconds                  | Deg                        | Degrees  |         | M   | linutes                |             | Seconds          |
|  |                       |                     |                          |                            |          |         |   |                        |             |                  |
| 29. Primary SIC Code (4 digits)  |                       | Secondary SIC gits) | Code                     | <b>31. Prim</b> (5 or 6 di | -        | ICS Co  | Code 32. Secondary NAICS Code (5 or 6 digits) |                        |             | CS Code          |
| 4911   |                       |                     |                          | 221112                     |          |         |   |                        |             |                  |
| 33. What is the Primary B  | susiness of t         | his entity? (De     | o not repeat the SIC o   | r NAICS des                | cription | .)      |   |                        |             |                  |
|  |                       |                     |                          |                            |          |         |   |                        |             |                  |
| 34. Mailing  | 4005 N. Seminary Road |                     |                          |                            |          |         |   |                        |             |                  |
| Address:   |                       |                     |                          |                            |          |         |   |                        |             |                  |
|  | City                  | Edinburg            | State                    | тх                         | 7        | ZIP     | 78541   |                        | ZIP + 4     |                  |
| 35. E-Mail Address:  | jaco                  | b.key@calpine.c     | om                       |                            |          |         |   |                        |             | •                |
| 36. Telephone Number   |                       |                     | 37. Extension or         | Code                       |          | 38. Fa  | ax Numbe                                      | e <b>r</b> (if applica | ble)        |                  |
| ( 956 ) 587-3287   |                       |                     |                          |                            |          | ( )     |   |                        |             |                  |

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

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| ☐ Dam Safety   | Di  | stricts                                  | Edwards Aquif  | fer  | Emissi              | ions Inventory Air   | ☐ Industrial Hazardous Wa                                      |
|--|---|--|--|--|---------------------|--|--|
|  |   |  |  |  |                     |  | 86364  |
| Municipal Solid Wa   | aste Review   | ew Source<br>w Air                       | OSSF   |  | ☐ Petrole           | eum Storage Tank   | □ PWS  |
|  | 11955   | 9;<br>crations<br>52;147942;16<br>167542 |  |  | *                   |  |  |
| Sludge   | Sto   | orm Water                                | ☐ Title V Air  |  | Tires               |  | Used Oil   |
|  |   |  | 1837   |  |                     |  |  |
| ☐ Voluntary Cleanup  | ⊠ wa  | astewater                                | ☐ Wastewater A   | griculture   | Water               | Rights   | Other:   |
|  | WQOO  | 004138000                                |  |  |                     |  |  |
| COTTON TV  |   |  |  |  |                     |  |  |
|  | : Prepar  | <u>er Info</u>                           | ormation   | 41. Title:   | Proje               | ect Manager  |  |
| O. Name: Nancy   | L. Koch   |  | Ormation  44. Fax Number                               |  | Proje<br>ail Addres |  |  |
| O. Name: Nancy  2. Telephone Numb  | L. Koch   | ./Code                                   |  | 45. E-M  | ail Addres          |  |  |
| <ul><li>0. Name: Nancy</li><li>2. Telephone Numb</li><li>512 ) 651-7104</li></ul>  | er 43. Ext  | ./Code                                   | 44. Fax Number   | 45. E-M  | ail Addres          | ss   |  |
| O. Name: Nancy  2. Telephone Numb  512 ) 651-7104  ECTION V:  By my signature belov submit this form on below  | er 43. Ext  Author  w, I certify, to the b  | ./Code ized Si pest of my know           | 44. Fax Number  ( ) -  gnature  wledge, that the infor | 45. E-M nancy.ko                                     | ail Address         | nsolutions.com   | ite, and that I have signature autho<br>lentified in field 39. |
| O. Name: Nancy  2. Telephone Numb  512 ) 651-7104  ECTION V:  By my signature below ubmit this form on below ubmit this form ubmit this f | er 43. Ext  Author  W, I certify, to the bhalf of the entity specific properties. | ./Code ized Si pest of my know           | 44. Fax Number  ( ) -  gnature  wledge, that the infor | 45. E-M nancy.ko rmation provided as required for th | ail Address         | nsolutions.com  In is true and comple  It to the ID numbers ic |  |
| 2. Telephone Numb 512) 651-7104  ECTION V: By my signature below submit this form on belocompany:  | er 43. Ext  Author  W, I certify, to the bhalf of the entity sp                   | ./Code ized Si pest of my know           | 44. Fax Number  ( ) -  gnature  wledge, that the infor | 45. E-M nancy.ko rmation provided as required for th | ail Address         | nsolutions.com  is true and completo the ID numbers in         | lentified in field 39.   |



# **TCEQ Core Data Form**

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

## **SECTION I: General Information**

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

| ☐ New Pern     | nit, Registratio                                | on or Authorization    | (Core Data Fori  | m should be s             | submitted                       | with the pr  | ogram application.)                              |              |              |                     |  |
|----------------|---|------------------------|------------------|---------------------------|---------------------------------|--------------|--|--------------|--------------|---------------------|--|
| Renewal        | Core Data Fo                                    | rm should be submi     | tted with the re | newal form)               |                                 |              | Other Add as co-permittee to WQ0005219000        |              |              |                     |  |
| 2. Customer    | Reference N                                     | lumber (if issued)     |                  | Follow this li            | ink to sear                     | ch 3. F      | 3. Regulated Entity Reference Number (if issued) |              |              |                     |  |
| CN 6026800     | 76  |                        |                  | for CN or RN<br>Central R | I numbers<br>legistry**         |              | N 100224989                                      |              |              |                     |  |
| ECTIO          | N II: C   | Customer               | Inform           | <u>nation</u>             | <u>l</u>                        |              |  |              |              |                     |  |
| 4. General Cu  | 4. General Customer Information 5. Effective Da |                        |                  |                           | Date for Customer Information L |              |  | /уууу)       |              | 7/1/2025            |  |
| New Custor     | ner   | ×υ                     | pdate to Custo   | mer Informat              | tion                            | ☐ Cł         | ange in Regulated Er                             | ntity Own    | ership       |                     |  |
| Change in Le   | egal Name (Ve                                   | erifiable with the Tex | kas Secretary of | State or Tex              | as Compti                       | oller of Pub | lic Accounts)                                    |              |              |                     |  |
| The Custome    | r Name sub                                      | mitted here may l      | be updated a     | utomaticall               | ly based                        | on what is   | current and activ                                | e with tl    | he Texas Sec | retary of State     |  |
| (SOS) or Texa  | s Comptroll                                     | er of Public Accou     | nts (CPA).       |                           |                                 |              |  |              |              |                     |  |
| 6. Customer    | Legal Name                                      | (If an individual, pri | nt last name fir | st: eg: Doe, J            | lohn)                           |              | If new Customer, enter previous Customer below:  |              |              |                     |  |
|                |   |                        |                  |                           |                                 |              |  |              |              |                     |  |
| Calpine Operat | ing Services C                                  | Company, Inc.          |                  |                           |                                 |              |  |              |              |                     |  |
| 7. TX SOS/CP   | A Filing Nun                                    | nber                   | 8. TX State      | <b>Tax ID</b> (11 di      | igits)                          |              | 9. Federal Tax ID 10. I                          |              |              | 10. DUNS Number (if |  |
| 800146045      |   |                        | 17108874284      | 1                         |                                 |              | (9 digits)                                       |              | applicable)  |                     |  |
|                |   |                        |                  |                           |                                 |              | 770212977  |              |              |                     |  |
|                |   |                        |                  |                           |                                 | <u> </u>     |  |              |              |                     |  |
| 11. Type of C  | ustomer:  |                        | tion             |                           |                                 | ☐ Indi       | Individual Partnership:                          |              |              | neral 🗌 Limited     |  |
| Government:    | City Co   | unty 🗌 Federal 🗌       | Local 🗌 State    | Other                     |                                 | Sole         | Proprietorship                                   | Ot           | her:         |                     |  |
| 12. Number o   | of Employee                                     | es                     |                  |                           |                                 |              | 13. Independe                                    | ntly Ow      | ned and Op   | erated?             |  |
| 0-20           | 21-100  | 101-250 🔲 251-         | 500 🛭 501        | and higher                |                                 |              | <b>⊠</b> Yes                                     | ☐ No         |              |                     |  |
| 14. Customer   | · <b>Role</b> (Propo                            | osed or Actual) – as i | t relates to the | Regulated En              | ntity listed                    | on this fori | n. Please check one o                            | of the follo | owing        |                     |  |
| Owner          | -   |                        | Поч              | ner & Opera               | ntor.                           |              |  |              |              |                     |  |
| Occupation     | _   | Responsible Pa         |                  | /CP/BSA App               |                                 |              | Other  | :            |              |                     |  |
|                | 717 Texas A                                     | Avenue                 |                  |                           |                                 |              |  |              |              |                     |  |
| 15. Mailing    |   | Wende                  |                  |                           |                                 |              |  |              |              |                     |  |
| Address:       | Suite 1000                                      |                        |                  |                           |                                 |              |  |              |              |                     |  |
|                | City  | Houston                |                  | State                     | TX                              | ZIP          | 77002  |              | ZIP + 4      |                     |  |
| 16. Country N  | Mailing Info                                    | rmation (if outside    | USA)             | 1                         |                                 | L7. E-Mail   | Address (if applicab                             | ole)         | <u> </u>     |                     |  |
| Ray.di         |   |                        |                  |                           |                                 | Rav.dube@d   | dube@calpine.com                                 |              |              |                     |  |

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| 18. Telephone Number   | phone Number 19. Extension or Code 20. Fax Number (if applicable) |                        |                         |               |               |                             |                 |            |                 |
|--|---|------------------------|-------------------------|---------------|---------------|-----------------------------|-----------------|------------|-----------------|
| ( 830 ) 305-8429   |   |                        |                         |               |               | ( )                         |                 |            |                 |
| ECTION III: I  | Regula  | ited Entit             | y Inform                | nation        | <u>l</u>      |                             |                 |            |                 |
| 21. General Regulated En   | tity Informa  | tion (If 'New Regula   | ted Entity" is selec    | ted, a new p  | ermit applica | ation is also re            | equired.)       |            |                 |
| New Regulated Entity [   | Update to   | Regulated Entity Nar   | me 🛚 Update t           | o Regulated   | Entity Inforn | nation                      |                 |            |                 |
| The Regulated Entity Nan<br>as Inc, LP, or LLC).                                     | ne submitte   | d may be updated       | , in order to med       | et TCEQ Coi   | re Data Sta   | ndards (rem                 | oval of orga    | nization   | al endings such |
| 22. Regulated Entity Nam   | <b>e</b> (Enter nam   | e of the site where th | ne regulated actior     | is taking plo | ace.)         |                             |                 |            |                 |
| Calpine Hidalgo Energy Cente   | r   |                        |                         |               |               |                             |                 |            |                 |
| 23. Street Address of the Regulated Entity:  | 4005 N. Sem   | ninary Road            |                         |               |               |                             |                 |            |                 |
| (No PO Boxes)  | City  | Edinburg               | State                   | ТХ            | ZIP           | 78541                       | Z               | IP + 4     |                 |
| 24. County   | Hidalgo   | 1                      | 1                       | 1             |               | I                           | I               |            | I               |
|  |   | If no Street A         | Address is provid       | led, fields 2 | 25-28 are re  | equired.                    |                 |            |                 |
| 25. Description to   |   |                        |                         |               |               |                             |                 |            |                 |
| Physical Location:   |   |                        |                         |               |               |                             |                 |            |                 |
| 26. Nearest City   |   |                        |                         |               |               | State                       |                 | Nea        | rest ZIP Code   |
| Latitude/Longitude are re<br>used to supply coordinate<br>27. Latitude (N) In Decima | s where no  |                        |                         | accuracy).    |               | ards. (Geoco                |                 | Physical 2 |                 |
| Degrees  | Minutes 5   |                        | conds                   | Degre         | ees           | Minutes                     |                 |            | Seconds         |
|  |   |                        |                         |               |               |                             |                 |            |                 |
| 29. Primary SIC Code   | 30.   | Secondary SIC Cod      | de                      | 31. Prima     | ry NAICS Co   | de 32. Secondary NAICS Code |                 |            |                 |
| 4 digits)  | (4 di   | gits)                  | <b>(</b> 5 or 6 digits) |               |               |                             | (5 or 6 digits  | ts)        |                 |
| 1911   |   |                        |                         | 221112        |               |                             |                 |            |                 |
| 33. What is the Primary B  | usiness of t  | his entity? (Do no     | ot repeat the SIC or    | · NAICS desci | ription.)     |                             |                 |            |                 |
| Electrical Power Generation  |   |                        |                         |               |               |                             |                 |            |                 |
| 34. Mailing  | 4005 N. Se  | minary Road            |                         |               |               |                             |                 |            |                 |
| Address:   | City  | Edinburg               | State                   | тх            | ZIP           | 78541                       | 7               | ZIP + 4    |                 |
| 35. E-Mail Address:  | jaco  | b.key@calpine.com      |                         |               |               |                             |                 |            |                 |
| 36. Telephone Number   |   | 3                      | 7. Extension or         | Code          | 38. 1         | ax Number                   | (if applicable) |            |                 |
| 956 ) 587-3287   |   |                        |                         |               | 1             | ) -                         |                 |            |                 |

19. Extension or Code

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| ☐ Dam Safety           | Districts                     | ☐ Edwards Aquifer        |            | Emissions      | Inventory Air   | ☐ Industrial Hazardous Waste                                   |  |
|------------------------|-------------------------------|--------------------------|------------|----------------|-----------------|--|--|
|                        |                               |                          |            |                |                 | 86364  |  |
| ☐ Municipal Solid Wast | e New Source<br>Review Air    | OSSF                     |            | Petroleum      | Storage Tank    | □ PWS  |  |
| Sludge                 | Storm Water                   | ☐ Title V Air            |            | Tires          |                 | Used Oil   |  |
|                        |                               |                          |            |                |                 |  |  |
| ☐ Voluntary Cleanup    |                               | ☐ Wastewater Agriculture |            | ☐ Water Rights |                 | Other:   |  |
|                        | WQ0004138000                  |                          |            |                |                 |  |  |
| ECTION IV:             | Preparer Inf                  | ormation                 |            |                |                 |  |  |
| O. Name: Nancy L.      | Koch                          |                          | 41. Title: | Project M      |                 |  |  |
| 2. Telephone Number    | 43. Ext./Code                 | 44. Fax Number           | 45. E-Mail | Address        |                 |  |  |
| 512 ) 651-7104         |                               | ( ) - Nancy.Koch@westo   |            |                | onsolutions.com |  |  |
| ECTION V:              | Authorized S                  | ianature                 |            |                |                 |  |  |
| By my signature below, |                               | wledge, that the informa |            |                |                 | e, and that I have signature authorit<br>entified in field 39. |  |
| Company: Ca            | lpine Operating Services Comp | pany, Inc.               | Job Title: | Plant M        | ant Manager     |  |  |
| lame (In Print): Jac   | cob Key                       |                          |            |                | Phone:          | ( 956 ) 587- <b>3287</b>                                       |  |
| ignature:              | Ilv                           |                          |            |                | Date:           | 6-25-25  |  |
|                        | 1/                            |                          |            |                |                 |  |  |



# **TCEQ Core Data Form**

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

## **SECTION I: General Information**

| 1. Reason for     | <sup>r</sup> Submissi | <b>on</b> (If other is checke | d please describe    | in space pro               | ovided.)                  |                |                         |            |                       |                |
|-------------------|-----------------------|-------------------------------|----------------------|----------------------------|---------------------------|----------------|-------------------------|------------|-----------------------|----------------|
| ☐ New Perr        | nit, Registra         | ation or Authorizatior        | (Core Data Forn      | n should be s              | submitted                 | d with the pr  | ogram application.)     |            |                       |                |
| Renewal           | (Core Data            | Form should be subm           | itted with the rer   | newal form)                |                           | Other          |                         |            |                       |                |
| 2. Customer       | Reference             | Number (if issued)            |                      | Follow this link to search |                           |                | Regulated Entity Re     | ference    | Number (if is         | ssued)         |
| CN C04 CE0        |                       |                               |                      | for CN or RN<br>Central Re |                           | · ·            | 1.4.0022.4000           |            |                       |                |
| CN 6016586        | 51                    |                               |                      | <u>Central Re</u>          | egisti y                  | - R            | I 100224989             |            |                       |                |
| ECTIO             | N II:                 | Customer                      | Inform               | ation                      |                           |                |                         |            |                       |                |
|                   |                       |                               |                      |                            |                           |                |                         |            |                       |                |
| 4. General Cu     | ıstomer Ir            | nformation                    | 5. Effective I       | Date for Cu                | ıstomer                   | Informatio     | on Updates (mm/dd       | /уууу)     |                       | 7/1/2025       |
| ☐ New Custo       | mer                   | <b>⊠</b> (                    | <br>Jpdate to Custor | ner Informat               | tion                      | ☐ Ch           | nange in Regulated Er   | itity Own  | ership                |                |
| ☐Change in L      | egal Name             | (Verifiable with the To       | exas Secretary of    | State or Tex               | kas Comp                  | otroller of Pu | blic Accounts)          |            |                       |                |
| The Custome       | r Name sı             | ıbmitted here may             | be updated au        | tomaticall                 | ly based                  | on what is     | current and active      | e with th  | he Texas Secr         | etary of State |
| (SOS) or Text     | s Comptr              | oller of Public Acco          | unts (CPA).          |                            |                           |                |                         |            |                       |                |
| 6. Customer       | Legal Nan             | ne (If an individual, pr      | int last name firs   | t: eg: Doe, J              | ohn)                      |                | <u>If new Customer,</u> | enter pr   | evious Custome        | er below:      |
| Dublic Litilities | Poard of th           | e City of Brownsville         | Toyac                |                            |                           |                |                         |            |                       |                |
|                   |                       | ·                             |                      |                            |                           |                |                         |            |                       |                |
| 7. TX SOS/CP      | A Filing N            | umber                         | 8. TX State 1        | <b>ax ID</b> (11 di        | igits)                    |                | 9. Federal Tax          | ID         | 10. DUNS Napplicable) | lumber (if     |
| Not applica       |                       |                               | 74-2137823           |                            |                           |                | (9 digits)              |            |                       |                |
|                   |                       |                               |                      |                            |                           |                | Not applica             |            | not applica           |                |
| 11. Type of C     | ustomer:              | Corpora                       | ition                |                            |                           | ☐ Indi         | vidual                  | Partne     | ership: 🔲 Gene        | eral 🔀 Limited |
|                   |                       | County  Federal               | Local State          | Other                      |                           | Sole           | Proprietorship          | Ot         | her:                  |                |
| 12. Number        | of Employ             | ees                           |                      |                            |                           |                | 13. Independe           | ntly Ow    | ned and Ope           | rated?         |
| □ 0-20            | 21-100 [              | ] 101-250   251               | -500 🔲 501 a         | nd higher                  |                           |                | Yes                     | ☐ No       |                       |                |
| 14. Custome       | <b>r Role</b> (Pro    | posed or Actual) – as         | it relates to the I  | Regulated En               | ntity liste               | d on this for  | m. Please check one o   | f the foll | owing                 |                |
| Owner             |                       | Operator                      | Ow                   | ner & Opera                | tor                       |                | ⊠ Other:                | - Dublic I | Itility               |                |
| Occupation        | al Licensee           | Responsible Pa                | arty 🔲 V             | CP/BSA App                 | licant                    |                | ⊠ Other.                | . Fublic C | Juliey                |                |
|                   | 1425 Rok              | oinhood Drive                 |                      |                            |                           |                |                         |            |                       |                |
| 15. Mailing       |                       |                               |                      |                            |                           |                |                         |            |                       |                |
| Address:          | City                  | Brownsville                   |                      | State                      | TX                        | ZIP            | 78521                   |            | ZIP + 4               |                |
|                   | City                  | 210WIISVIIIC                  |                      | Jule                       | '``                       | 211            | 1,5521                  |            |                       |                |
| 16. Country I     | Mailing In            | formation (if outside         | · USA)               |                            |                           | 17. E-Mail     | Address (if applicab    | le)        |                       |                |
| customerservi     |                       |                               |                      |                            | rvice@brownsville-pub.com |                |                         |            |                       |                |

TCEQ-10400 (11/22) Page 1 of 3

| ( 956 ) 983-6121            |                      |                    |                          |               |                        |               | ( )          | -                |            |                 |
|-----------------------------|----------------------|--------------------|--------------------------|---------------|------------------------|---------------|--------------|------------------|------------|-----------------|
| ECTION III:                 | Reaul                | ated En            | titv Inform              | mat           | ion                    |               | 1            |                  |            |                 |
| 21. General Regulated Er    |                      |                    | <u>-</u>                 |               |                        | rmit applic   | ation is als | o required.)     |            |                 |
| ☐ New Regulated Entity      | Update t             | o Regulated Entity | / Name                   | e to Reg      | gulated E              | Intity Inforr | nation       |                  |            |                 |
| The Regulated Entity Nar    |                      |                    |                          |               |                        |               |              | romoval of o     | raanizatio | al andinas such |
| as Inc, LP, or LLC).        | ne submitt           | ей тау бе арас     | itea, iii oraer to iii   | eel ic        | EQ COR                 | e Duta Sta    | illuurus (i  | emovar oj ol     | rgumzation | iui enumys such |
| 22. Regulated Entity Nam    | <b>ne</b> (Enter nai | ne of the site whe | ere the regulated action | on is ta      | king plac              | ce.)          |              |                  |            |                 |
| ,                           |                      |                    |                          |               | <i>31</i> ·            |               |              |                  |            |                 |
| Calpine Hidalgo Energy Cent | er                   |                    |                          |               |                        |               |              |                  |            |                 |
| 23. Street Address of       | 4005 N. Se           | minary Road        |                          |               |                        |               |              |                  |            |                 |
| the Regulated Entity:       |                      |                    |                          |               |                        |               |              |                  |            |                 |
| (No PO Boxes)               | City                 | Edinburg           | State                    | ТХ            |                        | ZIP           | 78541        |                  | ZIP + 4    |                 |
|                             | _                    | Lamburg            | State                    |               |                        |               | 70311        |                  |            |                 |
| 24. County                  | Hidalgo              |                    |                          |               |                        |               |              |                  |            |                 |
|                             |                      | If no Stre         | et Address is prov       | ided, f       | fields 25              | 5-28 are re   | equired.     |                  |            |                 |
| 25. Description to          |                      |                    |                          |               |                        |               |              |                  |            |                 |
| Physical Location:          |                      |                    |                          |               |                        |               |              |                  |            |                 |
| 26. Nearest City            |                      |                    |                          |               |                        |               | State        |                  | Nea        | rest ZIP Code   |
|                             |                      |                    |                          |               |                        |               |              |                  |            |                 |
| Latitude/Longitude are r    | -                    | -                  | -                        |               |                        | ata Stand     | ards. (Ge    | ocoding of th    | e Physical | Address may be  |
| used to supply coordinate   |                      |                    | provided or to gair      | ı accui       |                        |               |              |                  |            |                 |
| 27. Latitude (N) In Decim   | al:                  | 26.3418056         |                          |               |                        | ngitude (\    | N) In Dec    | imal:            | -98.17502  | 25              |
| Degrees                     | Minutes              |                    | Seconds                  |               | Degree                 | 2S            |              | Minutes          |            | Seconds         |
|                             |                      |                    |                          |               |                        |               |              |                  |            |                 |
| 29. Primary SIC Code        | 30                   | . Secondary SIC    | Code                     |               |                        | NAICS Co      | ode          | 32. Seco         | ndary NAI  | CS Code         |
| (4 digits)                  | (4                   | digits)            |                          | (5 0          | or 6 digits            | 5)            |              | (5 or 6 dig      | gits)      |                 |
| 4911                        |                      |                    |                          | 2213          | 112                    |               |              |                  |            |                 |
| 33. What is the Primary E   | Business of          | this entity? ([    | o not repeat the SIC     | or NAIC       | CS descri <sub>l</sub> | otion.)       |              | •                |            |                 |
|                             |                      |                    |                          |               |                        |               |              |                  |            |                 |
|                             | 4005 N. S            | eminary Road       |                          |               |                        |               |              |                  |            |                 |
| 34. Mailing                 |                      |                    |                          |               |                        |               |              |                  |            |                 |
| Address:                    | City                 | Edinburg           | State                    | тх            |                        | ZIP           | 78541        |                  | ZIP + 4    |                 |
| 35. E-Mail Address:         |                      |                    |                          |               |                        |               |              |                  |            |                 |
| 33. E-IVIAII AUUTESS:       | Jac                  | ob.key@calpine.    |                          |               |                        |               |              |                  |            |                 |
| 36. Telephone Number        |                      |                    | 37. Extension or         | r <b>Code</b> |                        | 38. I         | Fax Numb     | oer (if applicat | ole)       |                 |
| ( 956 ) 587-3287            |                      |                    |                          |               |                        | (             | ) -          |                  |            |                 |

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

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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. Industrial Hazardous Waste □ Dam Safety Edwards Aquifer ■ Emissions Inventory Air ■ Districts 86364 ■ New Source OSSF □ PWS ■ Municipal Solid Waste Petroleum Storage Tank Review Air 38599; Registrations 119552;147942;16 7541;167542 Sludge Storm Water Title V Air Tires Used Oil 1837 Other: ☐ Voluntary Cleanup Wastewater Agriculture Water Rights WQ0004138000 **SECTION IV: Preparer Information** 41. Title: 40. Name: Nancy L. Koch Project Manager 42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address (512)651-7104 nancy.koch@westonsolutions.com **SECTION V: Authorized Signature** 46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39. Company: Job Title: Public Utilities Board of the City of Brownsville Texas **Director of Environmental** Name (In Print): Alberto Gomez Phone: (956) 983-6251 Signature: Date:

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# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

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

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

Calpine Hidalgo Energy Center, L.P. (CN600121932); Public Utilities Board of the City of Brownsville, Texas (CN601658651); and Calpine Operating Services Company, Inc. (CN602680076) operates Calpine Hidalgo Energy Center (RN100224989), a power generating facility. The facility is located at 4005 N Seminary Road, in Edinburg, Hidalgo County, Texas 78541. The facility has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004138000 to authorize the discharge of industrial wastewater at a volume not to exceed a daily average flow of 920,000 gallons per day.

Discharges from the facility are expected to contain carbonaceous biochemical oxygen demand (5-day), total dissolved solids, chloride, sulfate, nitrate nitrogen, ammonia nitrogen, total residual chlorine, total chromium, and zinc. Types of wastewater discharged from the facility include cooling tower blowdown and previously monitored effluents through Outfall

001. Previously monitored effluents discharged through Outfall 001 are low volume waste sources from internal Outfall 101 and offline combustion turbine wash water (metal cleaning wastes) from internal Outfall 201. Cooling tower blowdown is dechlorinated prior to discharge through Outfall 001. Low volume waste sources from internal Outfall 101 are treated by an oil water separator prior to comingling with other wastewaters for discharge through Outfall 001. Wastewater from internal Outfall 201 is not treated prior to discharge.

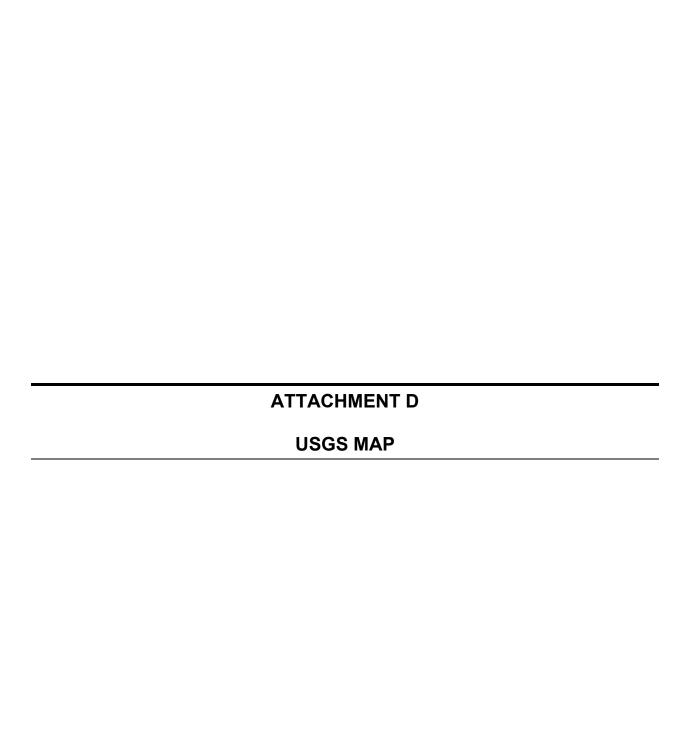
# PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

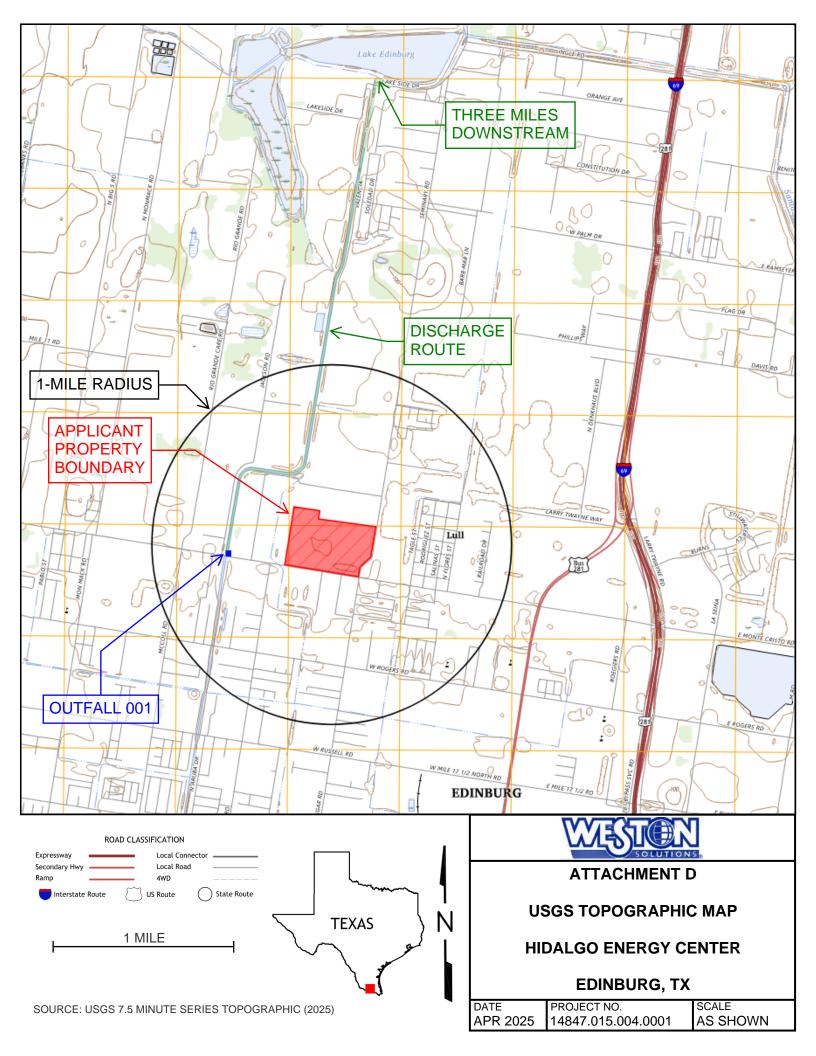
# AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

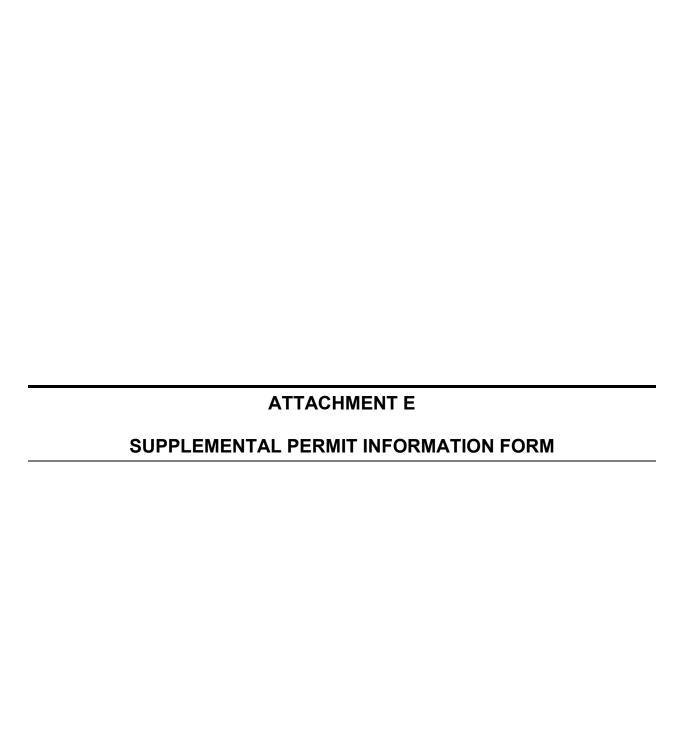
El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar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

Calpine Hidalgo Energy Center, L.P. (CN600121932); Public Utilities Board of the City of Brownsville, Texas (CN601658651); y Calpine Operating Services Company, Inc. (CN602680076) opera Calpine Hidalgo Energy Center (RN100224989), una instalación de generación de energía. La instalación está ubicada en 4005 N Seminary Road, en Edinburg, Condado de Hidalgo, Texas 78541. La instalación 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. WQ0004138000 para autorizar la descarga de aguas residuales industriales a un volumen que no exceda un promedio diario de 920,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica carbonosa de oxígeno (5 días), sólidos disueltos totales, cloruro, sulfato, nitrato nitrógeno, nitrógeno amoniacal, cloro residual total, cromo total, y zinc. Los tipos de aguas residuales descargadas de la instalación incluyen el drenaje de la torre de enfriamiento y efluentes monitoreados previamente a través del emisario 001. Los efluentes monitoreados previamente descargaron de emisario 001 son fuentes de desechos de bajo volumen de emisario interno 101 y agua de lavado de turbinas de combustión fuera de línea (desechos de limpieza de metales) de emisario interno 201. El drenaje de la torre de enfriamiento es desclorado antes de ser descargado a través del emisario 001. Las fuentes de desechos de bajo volumen del emisario interno 101 se tratan mediante un separador de aceite y agua antes de mezclarse con otras aguas residuales para su descarga a través del emisario 001. Las aguas residuales de emisario interno 201 no se tratan antes de ser descargadas.







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

# FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

| T                        | CEQ USE ONLY:  |
|--------------------------|--|
| A                        | pplication type:RenewalMajor AmendmentMinor AmendmentNew   |
| Co                       | ounty: Segment Number:   |
| A                        | dmin Complete Date:  |
| A                        | gency Receiving SPIF:  |
|                          | Texas Historical Commission U.S. Fish and Wildlife   |
|                          | Texas Parks and Wildlife Department U.S. Army Corps of Engineers   |
| Thi                      | is form applies to TPDES permit applications only. (Instructions, Page 53)   |
| our<br>is n              | mplete this form as a separate document. TCEQ will mail a copy to each agency as required by agreement with EPA. If any of the items are not completely addressed or further information needed, we will contact you to provide the information before issuing the permit. Address h item completely.  |
| atta<br>app<br>con<br>ma | not refer to your response to any item in the permit application form. Provide each achment for this form separately from the Administrative Report of the application. The olication will not be declared administratively complete without this SPIF form being upleted in its entirety including all attachments. Questions or comments concerning this form y be directed to the Water Quality Division's Application Review and Processing Team by all at |

| answer specific questions about the property.   |
|---|
| Prefix (Mr., Ms., Miss): <u>Ms</u>  |
| First and Last Name: <u>Orielle Buentello</u>   |
| Credential (P.E, P.G., Ph.D., etc.):  |
| Title: EHS Specialist III   |
| Mailing Address: <u>4005 N. Seminary Road</u>   |
| City, State, Zip Code: Edinburg, TX, 78541  |
| Phone No.: <u>956.732.8154</u> Ext.: Fax No.:   |
| E-mail Address: orielle.buentello@calpine.com   |
| List the county in which the facility is located: <u>Hidalgo</u>  |
| If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.  The property is partly publicly owned, but the owners are the same as the  |
| permittee/applicant.  |
| Provide a description of the effluent discharge route. The discharge route must follow the floor 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 identithe classified segment number.                  |
| To North Main Drain III; to North Main Drain II; to North Main Drain I; to North Floodway Channel; to Laguna Madre in Segment No. 2491.   |
| 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   |
|   |

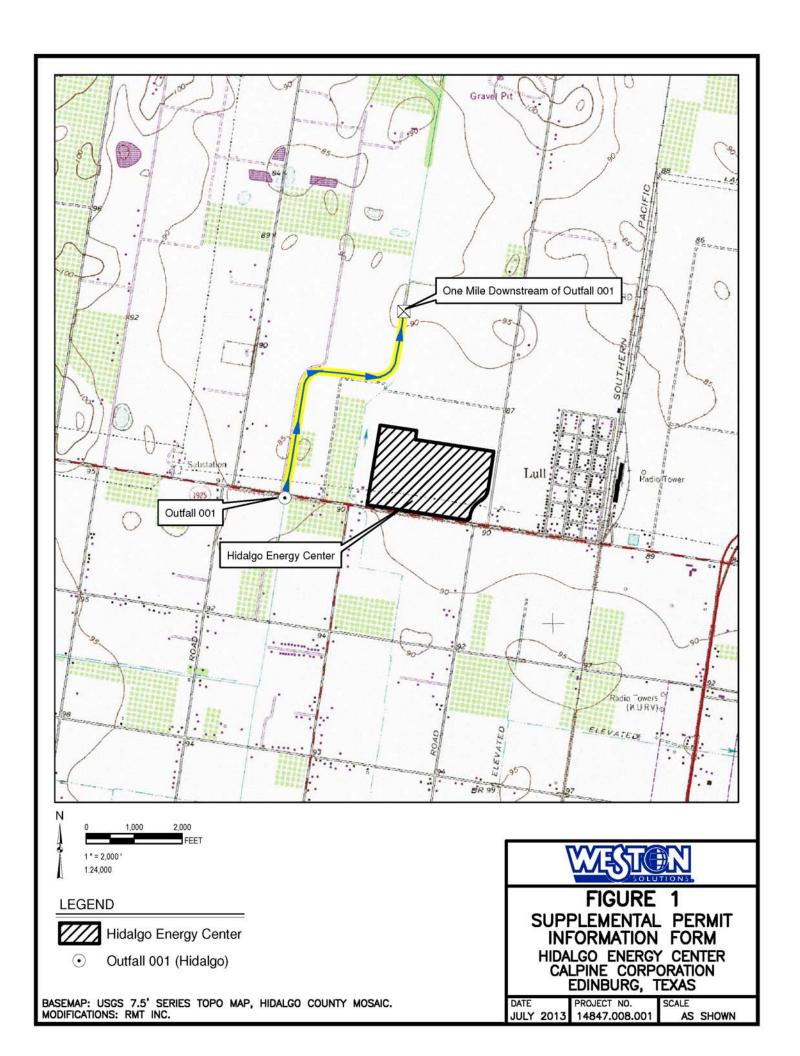
Provide the name, address, phone and fax number of an individual that can be contacted to

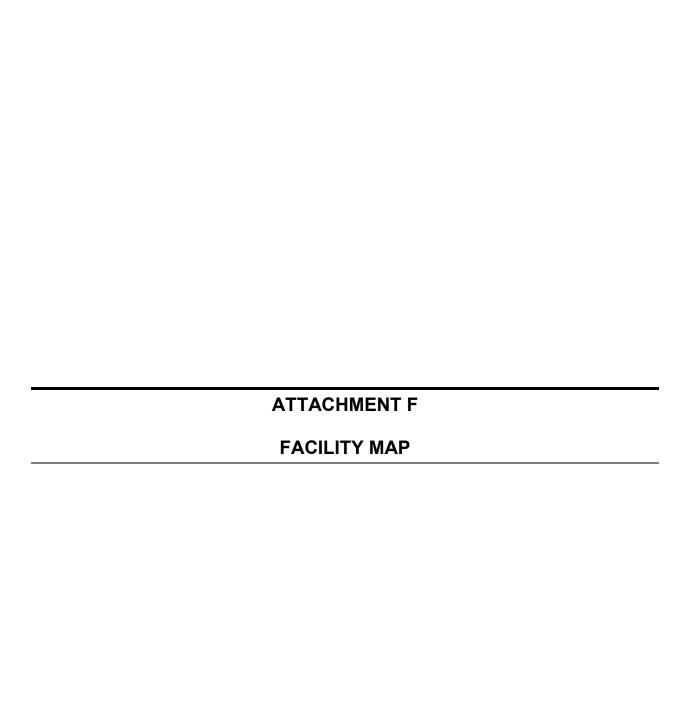
2.3.

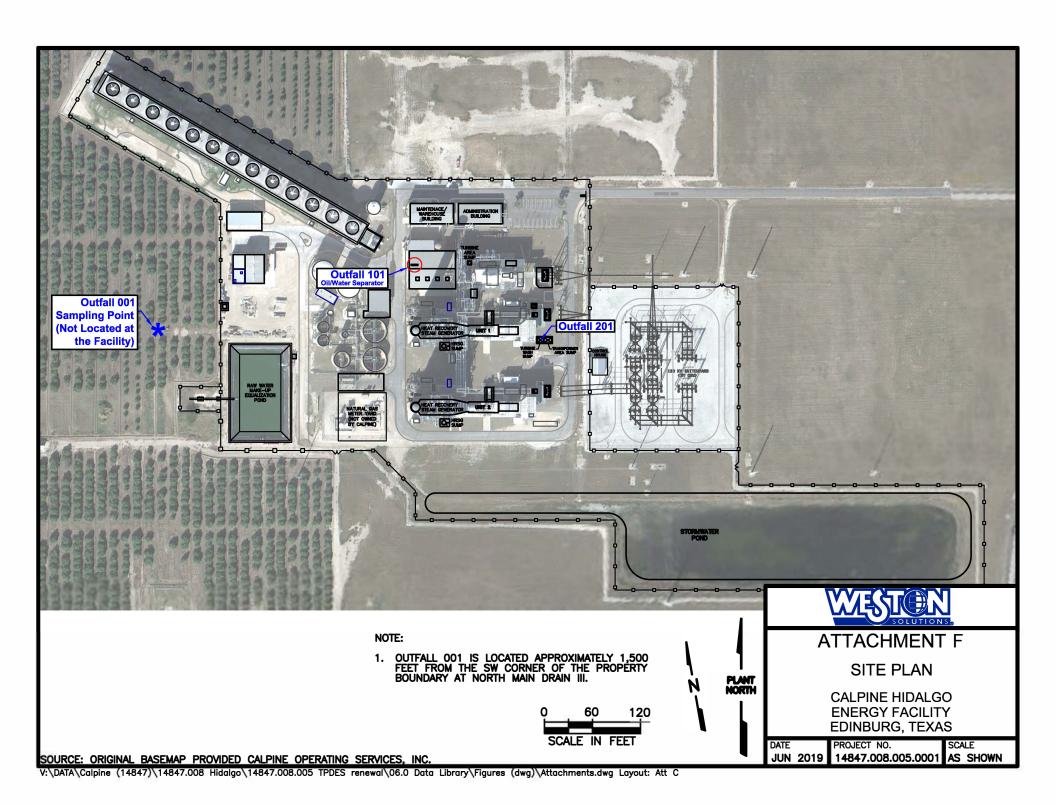
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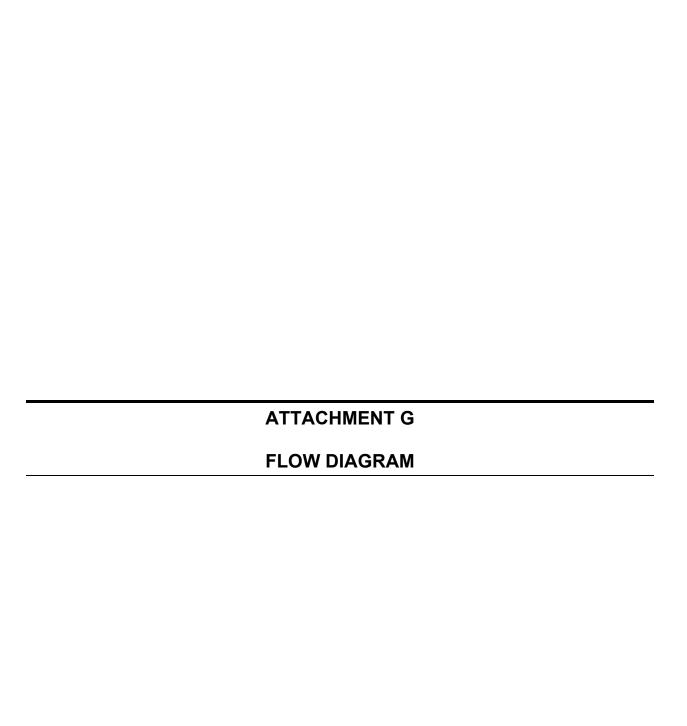
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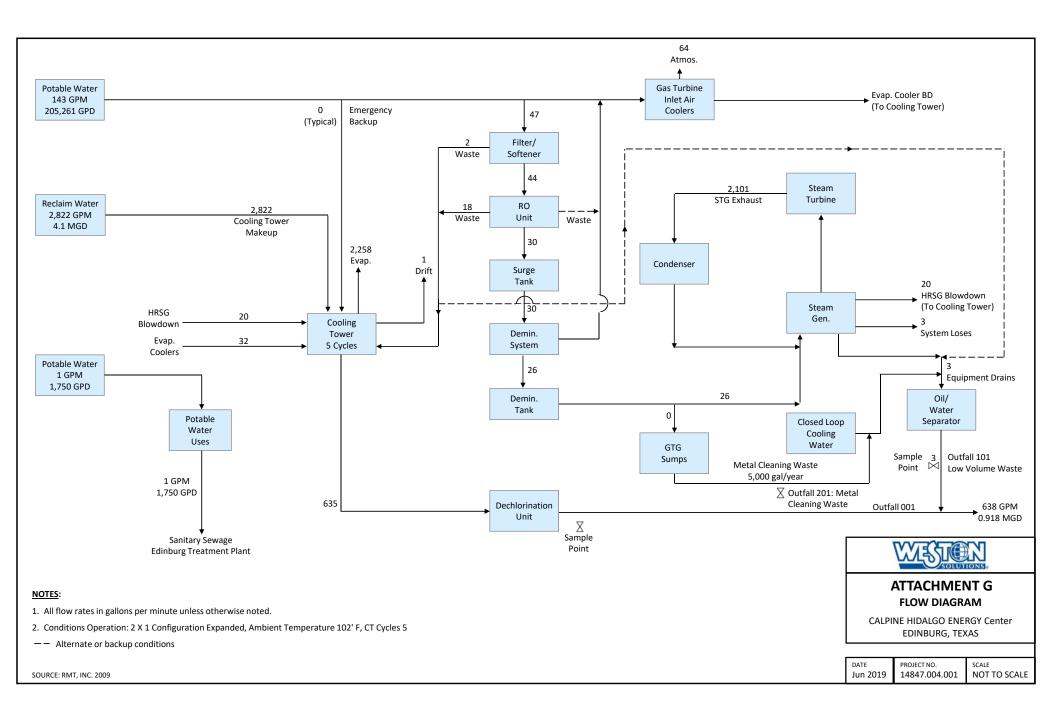
|    | ☐ Disturbance of vegetation or wetlands   |
|----|---|
| 1. | List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): |
|    | No construction activity is associated with this application.   |
| 2. | Describe existing disturbances, vegetation, and land use:   |
|    | The site is developed as a power generating facility.   |
|    | HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS                          |
| 3. | List construction dates of all buildings and structures on the property:  |
|    | Not applicable  |
| 4. | Provide a brief history of the property, and name of the architect/builder, if known.   |
|    | Not applicable  |
|    |   |

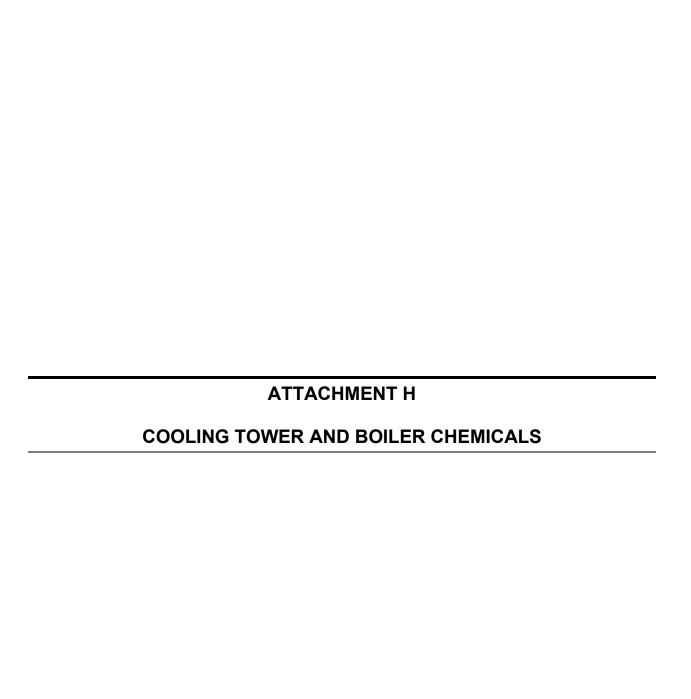












# Attachment H Summary of Cooling Tower and Boiler Chemical Additives Hidalgo Energy Center

| Mfg.      | Manufacturers Product  | Product Use  | Chemical Composition  | Corresponding CAS Number        | Toxicity  |   | Toxicity for whole | Persistent/<br>Non-perisistent/ | Product or active ingred half life |           | gredient | Concentration of product in | Frequency of                        |
|-----------|------------------------|--|---|---------------------------------|---|---|--------------------|---------------------------------|------------------------------------|-----------|----------|-----------------------------|-------------------------------------|
| iviig.    | Identification/ Number |  |   |                                 | Species and Test  | LC50 and NOEL   | product?           | Bioaccumulative                 | time                               | рН        | Temp     | blowdown                    | product use                         |
| ChemTreat | BL-1795                | Boiler pH & Corrosion control/Boiler water treatment   | Sodium phosphate, tribasic 1-5%<br>Sodium hydroxide 1-5%  | 7601-54-9<br>1310-73-2          | 48 hr Ceriodaphnia dubia<br>96 hr Fathead Minnow  | LC50 >10,000 mg/L<br>LC50 >10,000 mg/L  | No                 | N/A                             |                                    | 13.1      |          | 3-7 ppm                     | Daily during operation              |
| ChemTreat | CL-240                 | CT Foam Control/Defoamer                               | Non-hazardous   | N/A                             | 48 hr Daphnia magna<br>96 hr Fathead Minnow<br>96hr Sheepshead Minnow<br>48 hr Mysid Shrimp   | LC50 6,000 mg/L<br>LC50 8,600 mg/L<br>LC50 >1,000 mg/L<br>LC50 >1,000 mg/L  | No                 | N/A                             |                                    | 5.9       |          | 2 gal/day                   | Daily during operation              |
| Brenntag  | Sulfuric Acid          | Cooling Tower pH control                               | Sulfuric Acid 85%   | 7664-93-9                       | 96 hr Western Mosquitofish  | LC50 42 mg/L  | No                 | N/A                             |                                    | N/A       |          | 200 gal/day                 | Daily during operation              |
| Brenntag  | Sodium Hypochlorite    | Biocide  | Sodium hypochlorous acid, Soduim salt 12.5%<br>Sodium Hydroxide 0.7%  | 7681-52-9<br>1310-73-2          | 96 hr Chinook Salmon<br>48 hr Water Flea<br>96 hr Western Mosquitofish  | LC50 0.038-0.065 mg/L<br>EC50 34.59-47.13 mg/L<br>LC50 125 mg/L   | No                 | N/A                             |                                    | 11.5-13.5 |          | 250 gal/day                 | Daily during operation              |
| Chemtreat | CL-4428                | Dispersant/scale inhibitor/<br>Cooling water treatment | Non-hazardous   | N/A                             | 96 hr Bluegill Sunfish 96 hr Rainbow Trout 48 hr Daphnia magna 48 hr Mysid Shrimp 96 hr Inland Silverside 96 hr Algae 48 hr Ceriodaphnia dubia 96 hr Fathead Minnow   | LC50 >1,000 mg/L<br>LC50 >1,000 mg/L<br>EC50 >1,000 mg/L<br>LC50 >1,000 mg/L<br>LC50 >1,000 mg/L<br>LC50 >8 mg/L<br>LC50 888 mg/L<br>LC50 3,314 mg/L  | No                 | N/A                             |                                    | 4.4       |          | 12-18 ppm                   | Daily during operation              |
| ChemTreat | BL-124                 | De-chlorination/Boiler<br>water treatment              | Sodium Bisulfite 15-40%   | 7631-90-5                       | 96 hr Sheepshead Minnow 48 hr Mysid Shrimp 96 hr Fathead Minnow 96 hr Fathead Minnow 7 day Fathead Minnow 7 day Fathead Minnow 7 day Fathead Minnow 48 hr Ceriodaphnia dubia 48 hr Ceriodaphnia dubia 7 day Ceriodaphnia dubia 7 day Ceriodaphnia dubia 7 day Ceriodaphnia dubia 7 day Ceriodaphnia dubia | LC50 100 mg/L<br>LC50 70.7 mg/L<br>LC50 > 1,000 mg/L<br>LC50 849 mg/L<br>NOEC 600 mg/L<br>LOEC 1,200 mg/L<br>IC25 750 mg/L<br>LC50 390.4 mg/L<br>LC50 459 mg/L<br>NOEC 300 mg/L<br>LOEC 600 mg/L<br>IC25 420 mg/L | No                 | N/A                             |                                    | 3.9       |          | 0.64 - 1.28 ppm             | Daily during operation              |
| ChemTreat | BL-152                 | Steam Cycle pH/Steam line treatment                    | Ammonium hydroxide 10-30%<br>Ethanolamine 5-10%   | 1336-21-6<br>141-43-5           | 48 hr Ceriodaphnia dubia<br>96 hr Fathead Minnow  | LC50 137 mg/L<br>LC50 76 mg/L   | No                 | N/A                             |                                    | 13.1      |          | 3-4 gal / day               | Daily during operation              |
| ChemTreat | BL-8401                | Boiler water treatment                                 | N-Oleyl-1,3-diaminopropane 5-10%<br>Acetic Acid 0-5%<br>Formic Acid 0-5%<br>Other componenets below reportable levels 90-100% | 7173-62-8<br>64-19-7<br>64-18-6 | 96 hr Mysid Shrimp<br>48 hr Inland Silverside   | LC50 3.9 mg/L<br>LC50 2.7 mg/L  | Yes                | N/A                             |                                    | 7-8       |          |                             | Daily during operation              |
| ChemTreat | CL-206                 | Cooling Water Microbiocide                             | 2-2-Dibromo-3-nitrilopropionamide 20%   | 10222-01-2                      | 48 hr Daphnia magna<br>96 hr Bluegill Sunfish<br>96 hr Rainbow Trout<br>96 hr Fathead Minnow<br>48 hr Ceriodaphnia dubia<br>96 hr Sheepshead Minnow   | LC50 6.2 mg/L<br>LC50 6.5 mg/L<br>LC50 5 mg/L<br>LC50 6.8 mg/L<br>LC50 5.733 mg/L<br>LC50 7 mg/L  | No                 | N/A                             |                                    | 2.2       |          |                             | Used when changing raw water source |





# SAFETY DATA SHEET

#### Section 1. Chemical Product and Company Identification

ChemTreat BL1795 Boiler Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 May 9, 2016 May 9, 2016 16050901AN Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters): Telephone Number for Information: Date of SDS:

Revision Date: Revision Number:

#### Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s):

Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Inhalation – Category 4

Hazard Statement(s):

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H312 Harmful in contact with skin. H332 Harmful if inhaled. H302 Harmful if swallowed

Precautionary Statement(s):

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye
protection/face protection.

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Immediately remove/take off all contaminated clothing. Rinse skin Skin:

with water/shower. Wash contaminated clothing before re-use Immediately call a poison center or doctor/physician.

DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON Ingestion: CENTER or doctor/physician

N/D

Most Important Symptoms: Indication of Immediate Medical Attention and Special Treatment Needed, If

N/A

## Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from the Chemical:

Protective Equipment:

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus.

# Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. **Environmental Precautions** 

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802. Other Statements:

**ChemTreat** 



P301 + P312 IF SWALLOWED: Call a POISON
CENTER or doctor/physician if you feel unwell
P301 + 330 + 331 IF SWALLOWED: Rinse mouth.
Do NOT induce vomiting,
P303 + P361 + P353 IF ON SKIN (or hair):
Remove/take off immediately all contaminated clothing.
Rinse skin with water/shower
P304 + P340 IF INHALED: Remove person to fresh
air and keep comfortable for breathing.

air and keep comfortable for breathing P305 + P351 + P388 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations. Disposal

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). System of Classification Used:

Hazards Not Otherwise Classified:

None

#### Section 3. Composition/Hazardous Ingredients

| Component                  | CAS Registry # | Wt.%  |
|----------------------------|----------------|-------|
| Sodium phosphate, tribasic | 7601-54-9      | 1 - 5 |
| Sodium hydroxide           | 1310-73-2      | 1 - 5 |

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret. Comments

#### Section 4. First Aid Measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. Eyes:

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# Section 7. Handling and Storage

Handling:

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.

Do not store below 55°F. Do not freeze. Store above Freeze Point. If freezes, then mechanical mixing is required

# Section 8. Exposure Controls/Personal Protection

# Exposure Limits

| Component                  | Source    | Exposure Limits |
|----------------------------|-----------|-----------------|
| Sodium phosphate, tribasic | N/E       | N/E             |
| Sodium hydroxide           | ACGIH TLV | 2 mg/m³ Ceiling |
|                            | OSHA PEL  | 2 mg/m³ TWA     |

Use only with adequate ventilation. The use of local ventilation is **Engineering Controls:** recommended to control emission near the source

Personal Protection

Respiratory:

Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area. Eyes:

Skin:

Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.

If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

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# Section 9. Physical and Chemical Properties

Liquid, Colorless, Clear
1.054 @ 20°C
13.1 @ 20°C, 100.0%
55°F
N/D
Odorless
N/A
212°F
Complete
<1
N/D
N/D
N/D
N/D
N/D
N/D
N/A
8.79 LB/GA
N/D
N/D
N/D
N/A
8.79 LB/GA

Physical State and Appearance:
Specific Gravity:
pH:
Freezing Point:
Flash Point:
Odor:
Melting Point:
Initial Boiling Point and Boiling Range:
Solubility in Water:
Evaporation Rate:
Vapor Density:
Molecular Weight:
Viscosity:

Molecular Weight:
Viscosity:
Flammability (solid, gas):
Flammable Limits:
Autoignition Temperature:
Density:
Vapor Pressure:
% VOC:
Odor Threshold
n-octanol Partition Coefficient
Decomposition Temperature N/D N/D N/D N/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Oxides of phosphorus.

Incompatibility with Various Substances: Strong oxidizers, Acids.

Hazardous Decomposition Products:

None known.

Possibility of Hazardous Reactions:

Reactivity: N/D Conditions To Avoid: N/D

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N/D





None. Comments:

# Section 12. Ecological Information

# Ecotoxicity

| Ceriodaphnia dubia                |      | 48h | LC50 | >10000 mg/l |
|-----------------------------------|------|-----|------|-------------|
| Fathead Minnow                    |      | 96h | LC50 | >10000 mg/l |
| Persistence and Biodegradability: | N/D  |     |      |             |
| Bioaccumulative Potential:        | N/D  |     |      |             |
| Mobility In Soil:                 | N/D  |     |      |             |
| Other Adverse Effects:            | N/D  |     |      |             |
| Comments:                         | None |     |      |             |

Duration Type of Effect Test Results

# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

#### Section 14. Transport Information

| Controlling |         |                           |                 |               | Packing |
|-------------|---------|---------------------------|-----------------|---------------|---------|
| Regulation  | UN/NA#: | Proper Shipping Name:     | Technical Name: | Hazard Class: | Group:  |
| DOT         | UN1824  | SODIUM HYDROXIDE SOLUTION | N/A             | 8             | PGII    |
| TDG         | UN1824  | SODIUM HYDROXIDE SOLUTION | N/A             | 8             | PGII    |
| ICAO        | LIN1824 | SODIUM HYDROXIDE SOLUTION | N/A             | 8             | PGII    |

Note: N/A

# Section 11. Toxicological Information

#### Acute Toxicity

| Chemical Name              | Exposure | Type of Effect | Concentration | Species |
|----------------------------|----------|----------------|---------------|---------|
| Sodium phosphate, tribasic | Oral     | LD50           | 7400 MG/KG    | Rat     |
| Sodium hydroxide           | Oral     | LD50           | 300 MG/KG     | Rat     |
|                            | Dermal   | LD50           | 1350 MG/KG    | Rabbit  |

#### Carcinogenicity Category

| Component                  | Source | Code | Brief Description |
|----------------------------|--------|------|-------------------|
| Sodium phosphate, tribasic | N/E    | N/E  | N/E               |
| Sodium hydroxide           | N/E    | N/E  | N/E               |

Likely Routes of Exposure: N/D

N/D N/D Eye Contact: Skin Contact: N/D N/D Ingestion: Skin Corrosion/Irritation: N/D Serious Eye Damage/Eye Irritation: N/D Sensitization: N/D Germ Cell Mutagenicity: N/D Reproductive/Developmental Toxicity: N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D Repeated Exposure: N/D Aspiration Hazard: N/D

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# Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

No No No Yes No Fire Hazard: Reactive Hazard: Release of Pressure: Acute Health Hazard: Chronic Health Hazard:

#### Other Sections

| Component                  | Section 313<br>Toxic Chemical | Section 302 EHS<br>TPQ | CERCLA RQ |
|----------------------------|-------------------------------|------------------------|-----------|
| Sodium phosphate, tribasic | N/A                           | N/A                    | 5000      |
| Sodium hydroxide           | N/A                           | N/A                    | 1000      |

State Regulations

California Proposition 65: None known.

Special Regulations

| Component                  | States             |
|----------------------------|--------------------|
| Sodium phosphate, tribasic | MN, NY, PA         |
| Sodium hydroxide           | MA, MN, NY, PA, WA |

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D2B (Toxic Material) E (Corrosive Material) WHMIS Classification:

Controlled Product Regulations (CPR):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Compliance Information

NSF: N/A

FDA: All ingredients in this product are authorized in 21 CFR 173.310 for use as "Boiler Water Additives" where the steam may contact food. Food Regulations:

KOSHER: This product is certified by the Orthodox Union as kosher

pareve.
Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.

N/A

Other: None

Section 16. Other Information

HMIS Hazard Rating

FIFRA:

Comments:

Health: Flammability: Physical Hazard: PPE:

None

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ChemTreat BL1795

# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

**Product Name:** ChemTreat CL240 Product Use: Supplier's Name: Defoamer ChemTreat, Inc. (800)424-9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648-4579 February 8, 2018 February 8, 2018 18020801AN Emergency Telephone Number: Address (Corporate Headquarters): Telephone Number for Information: Date of SDS: Revision Date: Revision Number

Section 2. Hazard(s) Identification

Signal Word:

GHS Classification(s): Non-Hazardous Substance Hazard Statement(s): Non-Hazardous Substance

No significant health risks are expected from exposures under normal conditions of use. Precautionary Statement(s):

Prevention: None

Response: None Storage: None Disposal: None

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). System of Classification Used:

Hazards Not Otherwise Classified: None **ChemTreat** 



The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

their use.

Abbreviations

| Abbreviation | Definition  |
|--------------|---|
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |
| N/D          | Not Determined  |
| N/E          | Not Established   |
| OSHA         | Occupational Health and Safety Dept                       |
| PEL          | Personal Exposure Limit                                   |
| STEL         | Short Term Exposure Limit                                 |
| TLV          | Threshold Limit Value                                     |
| TWA          | Time Weight Average                                       |
| UNK          | Unknown   |

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: May 9, 2016

# Disclaimer

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# Section 3. Composition/Hazardous Ingredients

| Component   | AS Registry # | WL% |
|---|---------------|-----|
| Components not listed are either non hazardous or in concentration of N/A | N/A           | N/A |
| less than 1%  |               | 1   |

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret. Comments

# Section 4. First Aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Eyes

Call a poison center or doctor/physician if you feel unwell

N/D

Rinse mouth. Call a poison center or doctor/physician if you feel unwell. Ingestion:

Indication of Immediate N/A Medical Attention and Special Treatment Needed, If Necessary:

Most Important Symptoms:

# Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire

Specific Hazards Arising from the Chemical: Product may emit toxic gases or fumes under fire conditions.

Protective Equipment:

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus.

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Methods for Cleaning up:





Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

Contain and recover liquid when possible. Flush spill area with water spray.

Other Statements:

# Section 7. Handling and Storage

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust. Handling

Storage: Store away from incompatible materials (see Section 10), Store

Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.

Do not freeze. Store above Freeze Point. If freezes, then product is unusable.

# Section 8. Exposure Controls/Personal Protection

# Exposure Limits

| Component  | Source | Exposure Limits |
|--|--------|-----------------|
| Components not listed are either non hazardous or in | N/E    | N/E             |
| concentration of less than 1%                        |        |                 |

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.

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# Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Substances: Strong acids, Strong oxidizers.

Hazardous Decomposition Products:

Oxides of carbon, Oxides of silicon.

Possibility of Hazardous Reactions:

None known

Reactivity: N/D Conditions To Avoid: N/D

# Section 11. Toxicological Information

# **Acute Toxicity**

| Chemical Name | Exposure | Type of Effect | Concentration | Species |
|---------------|----------|----------------|---------------|---------|
| N/D           | N/D      | N/D            | N/D           | N/D     |
|               |          |                | •             |         |

# Carcinogenicity Category

| Component  | Source | Code | Brief Description |
|--|--------|------|-------------------|
| Components not listed are either non hazardous or in | N/E    | N/E  | N/E               |
| annualization of loss than 40/                       | 1      | 1    |                   |

Likely Routes of Exposure:

Symptoms

Inhalation N/D Eye Contact: N/D Skin Contact: N/D Ingestion: N/D

Skin Corrosion/Irritation: N/D





#### Personal Protection

Safety glasses are recommended if risk of eye contact.

Skin

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.

If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134. Respiratory:

# Section 9. Physical and Chemical Properties

Liquid, White, Opaque 1.006 @ 20°C 5.9 @ 20°C, 100.0% 34°F N/D Mild N/A N/D Dispersible Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point:

riash Point: Odor: Melting Point: Initial Boiling Point and Boiling Range: Solubility in Water: Evaporation Rate:

- 3200 CPS @ 20°C

N/D
Dispersible
N/D
N/D
N/D
N/D
N/D
N/D
N/D
N/D
N/D
N/A
N/A
8.39 LB/GA
N/D
0
N/D
N/D
N/D
N/D
N/D Evaporation Rate:
Vapor Density:
Molecular Weight:
Viscosity:
Flammabile Limits:
Autoignition Temperature:
Density:
Vapor Pressure:
Vy COC
Odor Threshold
n-octanol Partition Coefficient
Decomposition Temperature

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N/D Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity: N/D

Reproductive/Developmental Toxicity: N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D Repeated Exposure N/D Aspiration Hazard: N/D

None

# Section 12. Ecological Information

#### Ecotoxicity

Comments:

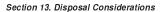
| Species           | Duration | Type of Effect | Test Results |
|-------------------|----------|----------------|--------------|
| Daphnia magna     | 48h      | LC50           | 6000 mg/l    |
| Fathead Minnow    | 96h      | LC50           | 8600 mg/l    |
| Sheepshead Minnow | 96h      | LC50           | >1000 mg/l   |
| Mysid Shrimp      | 48h      | LC50           | >1000 mg/l   |

N/D Persistence and Biodegradability Bioaccumulative Potential: N/D Mobility In Soil: N/D Other Adverse Effects: N/D Comments: None

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Dispose of in accordance with local, state and federal regulations. Not a RCRA–regulated hazardous waste when disposed in the original product form.

# Section 14. Transport Information

| Controlling |         |                         |                 |               | Packing |
|-------------|---------|-------------------------|-----------------|---------------|---------|
| Regulation  | UN/NA#: | Proper Shipping Name:   | Technical Name: | Hazard Class: | Group:  |
| DOT         | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| IMDG        | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| TDG         | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| ICAO        | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |

Note: N/A

#### Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

All ingredients listed. All ingredients listed.

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Compliance Information

NSF: N/A Food Regulations: N/A

KOSHER: This product has not been evaluated for Kosher approval This product has not been evaluated for Halal approval.

FIFRA: N/A Other: None Comments:

# Section 16. Other Information

# **HMIS Hazard Rating**

Health: Flammability: Physical Hazard: PPE:

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

# Abbreviations

| Abbreviation | Definition  |
|--------------|---|
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |
| N/D          | Not Determined  |
| N/E          | Not Established   |
| OSHA         | Occupational Health and Safety Dept                       |
| PEL          | Personal Exposure Limit                                   |
| STEL         | Short Term Exposure Limit                                 |
| TLV          | Threshold Limit Value                                     |





#### Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

No No No Yes No Fire Hazard: Reactive Hazard:
Release of Pressure:
Acute Health Hazard:
Chronic Health Hazard:

#### Other Sections

| Component  | Section 313<br>Toxic Chemical | Section 302 EHS<br>TPQ | CERCLA RQ |
|--|-------------------------------|------------------------|-----------|
| Components not listed are either non hazardous or in | N/A                           | N/A                    | N/A       |
| concentration of less than 1%                        |                               |                        |           |

State Regulations

California Proposition 65: None known.

Special Regulations

| Component  | States |
|--|--------|
| Components not listed are either non hazardous or in | None.  |
| concentration of less than 1%                        |        |

#### International Regulations

Canada

WHMIS Classification: Controlled Product Regulations (CPR):

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Definition Time Weight Average Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: February 8, 2018

# Disclaimer

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#### SAFETY DATA SHEET

1. Identification

Product identifier SIII FURIC ACID 98%

Other means of identification

Recommended use ALL PROPER AND LEGAL PURPOSES

Recommended restrictions None known

Manufacturer/Importer/Supplie /Distributor information

Manufacturer

Brenntag Southwest, Inc. 610 Fisher Road Longview, TX 75604 903-759-7151 Company name Address Telephone

E-mail Not available Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.

Acute toxicity, inhalation Category 2

Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1 Hazardous to the aquatic environment, acute Category 3

Hazardous to the aquatic environment, long-term hazard

Not classified. OSHA defined hazards

Label elements

Environmental hazards



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Prevention

Precautionary statement

Do not breathe vapor. Wash thoroughly after handling, Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective olothing/eye protection/face protection. Vear respiratory protections. Response

If swallowed: Rinse mouth. Do NOT induce vomiting, if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled. Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue mising, immediately call a poison center/doctor. Specific treatment is urgent (see this label). Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

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

Hazard(s) not otherwise

Supplemental information

Storage

15% of the mixture consists of component(s) of unknown acute inhalation toxicity, 15% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 15% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Material name: SULFURIC ACID 98% 830584 Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015 SDS US

7. Handling and storage Precautions for safe handling

Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing, Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

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

| Components                       | Туре          | Value     |                    |
|----------------------------------|---------------|-----------|--------------------|
| SULFURIC ACID (CAS<br>7664-93-9) | PEL           | 1 mg/m3   |                    |
| US. ACGIH Threshold Limit Valu   | es            |           |                    |
| Components                       | Туре          | Value     | Form               |
| SULFURIC ACID (CAS<br>7664-93-9) | TWA           | 0.2 mg/m3 | Thoracic fraction. |
| US. NIOSH: Pocket Guide to Che   | mical Hazards |           |                    |
| Components                       | Туре          | Value     |                    |
| SULFURIC ACID (CAS<br>7664-93-9) | TWA           | 1 mg/m3   |                    |

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering cortriors in amaintan airborne levels below encommended exhaust seure with the exposure limits have not been established amaintan airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this protoct.

Individual protection measures, such as personal protective equipment

Eve/face protection Chemical respirator with organic vapor cartridge and full facepiece Skin protection

Hand protection

Thermal hazards

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

Other

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

Chemical respirator with organic vapor cartridge and full facepiece Respiratory protection

Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. General hygiene considerations

9. Physical and chemical properties

Appearance Physical state

Form Liquid

Color CLEAR PALE YELLOW ODORLESS Odor Odor threshold Not available

Not available

Melting point/freezing point 50.56 °F (10.31 °C) estimated

Initial boiling point and boiling 554 °F (290 °C) estimated Flash point Not available

Not available Evaporation rate Flammability (solid, gas) Not applicable

#### 3. Composition/information on ingredients

Mixtures

| Chemical name                  | Common name and synonyms | CAS number | %  |
|--------------------------------|--------------------------|------------|----|
| SULFURIC ACID                  |                          | 7664-93-9  | 85 |
| Other components below reports | ble levels               |            | 15 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret

4. First-aid measures

Inhalation

Skin contact

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocker mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. Take off immediately all contaminated coltning, fines ektin with waterschower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated coltning before reuse.

Immediately flush eyes with pleinty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Rinse mount. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Eye contact Ingestion

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

delayed

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

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Powder. Foam. Carbon dioxide (CO2). Suitable extinguishing media

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

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

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

Move containers from fire area if you can do so without risk

Fire fighting equipment/instructions

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

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

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

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

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

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Environmental precautions

Material name: SULFURIC ACID 98% 830584 Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015 sps us 2/7

Upper/lower flammability or explosive limits

Flammability limit - lower Not available (%)

Flammability limit - upper Not available Explosive limit - lower (%) Not available

Not available Explosive limit - upper (%) Vapor pressure 0.00008 hPa estimated

Vapor density Relative density Not available

Solubility(ies) Solubility (water) Not available Partition coefficient Not available (n-octanol/water) Not available Auto-ignition temperature Decomposition temperature Not available

Viscosity Other information

Density 15.40 lbs/gal Explosive properties Not explosive Oxidizing properties Not oxidizing. Specific gravity 1.85

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport Reactivity Chemical stability Material is stable under normal conditions

Possibility of hazardous reactions Hazardous polymerization does not occur Conditions to avoid Contact with incompatible materials

Incompatible materials Strong oxidizing agents. Hazardous decomposition No hazardous decomposition products are known

Not available

11. Toxicological information

Information on likely routes of exposure

Fatal if inhaled. Inhalation Skin contact Causes severe skin burns Eye contact Causes serious eye damage Ingestion Causes digestive tract burns.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Fatal if inhaled Acute toxicity Components Species

Test Results SULFURIC ACID (CAS 7664-93-9)

Acute

Inhalation LC50

Guinea pig 0.018 mg/l. 8 Hours Rat 347 mg/l, 1 Hours

\* Estimates for product may be based on additional component data not shown Skin corrosion/irritation Causes severe skin burns and eye damage.

Material name: SULFURIC ACID 98% 830584 Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015 Serious eye damage/eye Causes serious eye damage

Respiratory or skin sensitization

Not a respiratory sensitizer Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Germ cell mutagenicity

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not an aspiration hazard

Not listed

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - Not classified.

repeated expo

Aspiration hazard Prolonged inhalation may be harmful. Chronic effects

12. Ecological information

Harmful to aquatic life with long lasting effects. Ecotoxicity

Compon Test Results Species

SULFURIC ACID (CAS 7664-93-9) Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 42 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown Persistence and degradability No data is available on the degradability of this product

Bioaccumulative potential No data available.

No data available Mobility in soil Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Contaminated packaging

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

Waste from residues / unused

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a sate manner (see Disposal instructions). products

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN1830 SULFURIC ACID UN proper shipping name Transport hazard class(es)

Class Subsidiary risk

Packing group

ecial precautions for user Read safety instructions, SDS and emergency procedures before handling. ERG number

Material name: SULFURIC ACID 98% 830584 Version #: 03 Reviews 3 SDS US Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List

SULFURIC ACID (CAS 7664-93-9)
US. New Jersey Worker and Community Right-to-Know Act

SULFURIC ACID (CAS 7664-93-9)

US. Pennsylvania Worker and Community Right-to-Know Law

SULFURIC ACID (CAS 7664-93-9)
US. Rhode Island RTK

SULFURIC ACID (CAS 7664-93-9)

US. California Proposition 65
California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories Country(s) or region

Inventory name On inventory (yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Canada Canada Non-Domestic Substances List (NDSL) No Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Substances (EINECS) No Europe European List of Notified Chemical Substances (ELINCS)
Inventory of Existing and New Chemical Substances (ENCS) No Japan Korea Existing Chemicals List (ECL) No New Zealand Inventory New Zealand No Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS) No Toxic Substances Control Act (TSCA) Inventory "A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country (s).

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

05-09-2015 Issue date Revision date 07-10-2015 HMIS® ratings Health: 4 Flammability: 0 Physical hazard: 0

Health: 4 Flammability: 0 Instability: 0 NFPA ratings

Instability: 0
While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, accuracy or completeness of the information. The Buyer assumes all responsibility for handling, accurate with applicable federal, state, and local law. This actionary of complete less of the information. The object assistance an responsibility for liability lating and/or reselling the Product in accordance with applicable federal, state, and local law. SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenniag's terms and conditions of sale.

Revision Information

Fire-fighting measures: Special protective equipment and precautions for firefighters Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Stability and reactivity. Conditions to avoid Other information, including date of preparation or last revision: Disclaimer

Material name: SULFURIC ACID 98%

DOT information on packaging may be different from that listed



15. Regulatory information

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

One or more components are not listed on TSCA. US federal regulations

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

Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)

SULFURIC ACID (CAS 7664-93-9)
SARA 304 Emergency release notification SULFURIC ACID (CAS 7664-93-9) 1000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

uuthorization Act of 1986
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Threshold planning quantity, upper value CAS number

SULFURIC ACID 7664-93-9 1000 1000 lbs No

SARA 311/312 Hazardous

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. SULFURIC ACID

Other federal regulations

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

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

Not regulated. Safe Drinking Water Act

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

SULFURIC ACID (CAS 7664-93-9)

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

SULFURIC ACID (CAS 7664-93-9)
DEA Exempt Chemical Mixtures Code Number 20 %WV SULFURIC ACID (CAS 7664-93-9) 6552

Material name: SULFURIC ACID 98% 830584 Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015 sps us 6/7



#### SAFETY DATA SHEET

1. Identification

SODIUM HYPOCHLORITE 12.5% Product identifier

Other means of identification

ALL PROPER AND LEGAL PURPOSES Recommended use

Recommended restrictions None known Manufacturer/Importer/Supplie Manufacturer /Distributor information

Company name Address Brenntag Mid-South, Inc. 1405 Highway 136, West Henderson, KY 42420

Telephone 270-830-1222 Not available

800-424-9300 Emergency phone number

2. Hazard(s) identification

Physical hazards Not classified. Health hazards

Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

Environmental hazards Not classified OSHA defined hazards

Label elements

Signal word



Causes severe skin burns and eye damage. Causes serious eye damage. Hazard statement

Precautionary statement Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

CHEMTREC

To swallowed: Rinse mouth. Do NOT induce vomiting, if on skin (or hair): Take off immediately all forwallowed: Rinse mouth. Do NOT induce vomiting, if on skin (or hair): Take off immediately all keep comfortable for breathing; if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

Store locked up.

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

Supplemental information

3. Composition/information on ingredients

Mixtures

sps us

| Chemical name                          | Common name and synonyms | CAS number | %    |
|--|--------------------------|------------|------|
| HYPOCHLOROUS ACID, SODIU<br>SALT (1:1) | JM                       | 7681-52-9  | 12.5 |
| SODIUM HYDROXIDE (NA(OH)               | )                        | 1310-73-2  | 0.7  |
| Other components below reporta         | ble levels               |            | 86.8 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Material name: SODIUM HYPOCHLORITE 12.5% 841174 Version #: 27 Revision date: 03-30-2016 Issue date: 06-06-2015

sps us

830584 Version #: 03 Revision date: 07-10-2015 Issue date: 05-09-2015

#### 4. First-aid measures

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

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

contaminated clothing before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Eye contact Ingestion

Most important symptoms/effects, acute and

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

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

5. Fire-fighting measures

Suitable extinguishing media

Foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. During fire, gases hazardous to health may be formed

Specific hazards arising from the chemical

Self-contained breathing apparatus and full protective clothing must be worn in case of fire

Special protective equipment and precautions for firefighters Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

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

General fire hazards No unusual fire or explosion hazards noted

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spillfleak. Wear appropriate protective equipment and clothing during clean-up. Do not breath emist or vapor. Do not bunch damaged containers on spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculfie, dry sand or earth and place into containers. Following product recovery, flush area with water.

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

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Environmental precautions

7. Handling and storage

Precautions for safe handling

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

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Material name: SODIUM HYPOCHLORITE 12.5%
841174 Version #: 27 Revision date: 03-30-2016 Issue date: 06-06-2015

Not available

Flammability limit - upper (%)

Explosive limit - lower (%) Explosive limit - upper (%) Not available Vapor pressure Not available

Vapor density Not available Relative density Solubility(ies)

Solubility (water) Not available Partition coefficient (n-octanol/water) Not available Auto-ignition temperature Not available Decomposition temperature Not available

Viscosity

Not available Other information Density 10.00 lbs/gal Explosive properties
Oxidizing properties Not explosive Not oxidizing.

Percent volatile 86.8 % estimated Specific gravity 1.2

10. Stability and reactivity

Reacts violently with strong acids. This product may react with oxidizing agents Reactivity

Material is stable under normal conditions
Hazardous polymerization does not occur Chemical stability Possibility of hazardous

Contact with incompatible materials. Do not mix with other chemicals Conditions to avoid

Incompatible materials

Acids. Oxidizing agents.

No hazardous decomposition products are known. Hazardous decomposition

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Skin contact Causes severe skin burns

Eve contact Causes serious eve damage Ingestion Causes digestive tract burns.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Not available

Causes severe skin burns and eye damage Causes serious eye damage. Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

IARC Monographs. Overall Evaluation of Carcinogenicity 841174 Version #: 27 Revision date: 03-30-2016 Issue date: 06-06-2015

Not available Material name: SODIUM HYPOCHLORITE 12.5% 8. Exposure controls/personal protection

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

Components Value SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) 2 mg/m3 US, ACGIH Threshold Limit Values Components Туре Value SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Ceiling 2 mg/m3 US. NIOSH: Pocket Guide to Chemical Hazards Type Value

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Ceiling 2 mg/m3 US. Workplace Environmental Exposure Level (WEEL) Guides Components Value HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

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

Good general ventiliation (typically 10 air changes per hour) should be used. Ventiliation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventiliatio or other engineering controls to maintain airbonne levels below recommended exposure limits, exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. Appropriate engineering controls

such as personal protective equipment Wear safety glasses with side shields (or goggles) and a face shield. Individual protection measure Eye/face protection

Skin protection Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Wear appropriate chemical resistant clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection Thermal hazards Wear appropriate thermal protective clothing, when necessary

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. General hygiene considerations

9. Physical and chemical properties

Appearance

Physical state Liquid.

Liquid.
CLEAR PALE YELLOW Color Odor CHLORINE Odor threshold Not available 11.5 - 13.5

. Melting point/freezing point -3 °F (-19.44 °C) Initial boiling point and boiling 230.55 °F (110.3 °C) estimated

Not available Flash point Evaporation rate Not available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits Flammability limit - lower Not available

Material name: SODIUM HYPOCHLORITE 12.5%
841174 | Version #: 27 | Revision date: 03-30-2016 | Issue date: 06-06-2015 sps us

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects. Not classified

Specific target organ toxicity - single exposure Specific target organ toxicity - Not classified. repeated exposure

Aspiration hazard Not an aspiration hazard. Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

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

Components Species
HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9) Test Results

Aquatic

LC50

Chinook salmon (Oncorhynchus tshawytscha) 0.038 - 0.065 mg/l, 96 hours SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

Aquatic FC50

Crustacea

34.59 - 47.13 mg/l, 48 hours Water flea (Ceriodaphnia dubia) Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. Other adverse effects

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

Local disposal regulations Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste from residues / unused

disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

14. Transport information

UN1791 HYPOCHLORITE SOLUTIONS

UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk

Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ERR number

154

DOT information on packaging may be different from that listed.

Material name: SODIUM HYPOCHLORITE 12.5% 841174 Version #: 27 Revision date: 03-30-2016 Issue date: 06-06-2015

sps us



General information IMDG Regulated Marine Pollutant

15. Regulatory information

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

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

Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)

HYPOCHLOROUS ACID, SODIUM SALT (11) (CAS Listed. 7681-52-9)
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)
Listed.
SARA 304 Emergency release notification
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Most listed.

Not listed.

erfund Amendn

nents and Reauthorization Act of 1986 (SARA)
ies Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous Yes

SARA 313 (TRI reporting)

Other federal regulations

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

Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

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

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US, Massachusetts RTK - Substance List

MASSACHUSERTS N. K. - SUBSTANCE LIST
HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)
New Jersey Worker and Community Right-to-Know Act
HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

Material name: SODIUM HYPOCHLORITE 12.5%
841174 Version #: 27 Revision date: 03-30-2016 Issue date: 06-06-2015

sps us





# SAFETY DATA SHEET

ChemTreat CL4428

# Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Cooling Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648-4579 Telephone Number for Information: Date of SDS: May 9, 2016 May 9, 2016 Revision Date: Revision Number: 16050901AN

Section 2. Hazard(s) Identification

Signal Word: None

GHS Classification(s): Non-Hazardous Substance Hazard Statement(s): Non-Hazardous Substance

Precautionary Statement(s): No significant health risks are expected from exposures under

Prevention: None None. Storage: Disposal:

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards Not Otherwise Classified:

None

US. Pennsylvania Worker and Community Right-to-Know Lav

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9) SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Rhode Island RTK

HYPOCHLOROUS ACID. SODIUM SALT (1:1) (CAS 7681-52-9).

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. California Proposition 65

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently lated as carcinogens or reproductive toxins.

International Inventories

| Country(s) or region              | Inventory name On inventory (v  | /es/no)* |
|-----------------------------------|---|----------|
| Australia                         | Australian Inventory of Chemical Substances (AICS)  | Yes      |
| Canada                            | Domestic Substances List (DSL)  | Yes      |
| Canada                            | Non-Domestic Substances List (NDSL)   | No       |
| China                             | Inventory of Existing Chemical Substances in China (IECSC)  | Yes      |
| Europe                            | European Inventory of Existing Commercial Chemical<br>Substances (EINECS)                             | Yes      |
| Europe                            | European List of Notified Chemical Substances (ELINCS)  | No       |
| Japan                             | Inventory of Existing and New Chemical Substances (ENCS)  | Yes      |
| Korea                             | Existing Chemicals List (ECL)   | Yes      |
| New Zealand                       | New Zealand Inventory   | Yes      |
| Philippines                       | Philippine Inventory of Chemicals and Chemical Substances (PICCS)                                     | Yes      |
| United States & Puerto Rico       | Toxic Substances Control Act (TSCA) Inventory   | Yes      |
| "A "Yes" indicates that all compo | nents of this product comply with the inventory requirements administered by the governing country(s) |          |

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

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

Issue date 06-06-2015 03-30-2016 Version# 27 HMIS® ratings

Health: 3 Flammability: 0 Physical hazard: 0 Health: 3 Flammability: 0 Instability: 0 NFPA ratings

Disclaimer

While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

Material name: SODIUM HYPOCHLORITE 12.5% 841174 Version #: 27 Revision date: 03-30-2016

sps us





# Section 3. Composition/Hazardous Ingredients

| Component   | CAS Registry # | Wt.% |
|---|----------------|------|
| Components not listed are either non hazardous or in concentration of | N/A            | N/A  |
| less than 1%  |                |      |

Comments If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

# Section 4. First Aid Measures

Inhalation: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Skin: Call a poison center or doctor/physician if you feel unwell.

Ingestion: Rinse mouth. Call a poison center or doctor/physician if you feel

Most Important Symptoms: N/D

Indication of Immediate N/A Medical Attention and Special Treatment Needed, If

Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from the Chemical:

None known

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus. Protective Equipment:

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#### Section 6. Accidental Release Measures

Wear a self-contained breathing apparatus and appropriate Personal Protective Equipment (PPE). Personal Precautions:

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

Other Statements:

#### Section 7. Handling and Storage

Handling:

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

Storage:

Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.

Store above Freeze Point.

# Section 8. Exposure Controls/Personal Protection

#### Exposure Limits

| Component  | Source | Exposure Limits |
|--|--------|-----------------|
| Components not listed are either non hazardous or in | N/E    | N/E             |
| concentration of less than 1%                        |        |                 |

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source. Engineering Controls:

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# Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Substances:

Oxides of carbon.

Strong oxidizers, Strong bases.

Hazardous Decomposition Products:

Possibility of Hazardous Reactions:

None known

Reactivity: N/D Conditions To Avoid: N/D

# Section 11. Toxicological Information

# Acute Toxicity

| nemicai Name   Expo | posure Ty | ype of Effect ( | Concentration | Species |
|---------------------|-----------|-----------------|---------------|---------|
| I/D N/D             | N/I       | /D 0/           | N/D           | N/D     |

## Carcinogenicity Category

| Component  | Source | Code | Brief Description |
|--|--------|------|-------------------|
| Components not listed are either non hazardous or in | N/E    | N/E  | N/E               |
| concentration of less than 1%                        |        |      |                   |

Likely Routes of Exposure: N/D

Symptoms

Inhalation: N/D Eye Contact: N/D Skin Contact: N/D Ingestion: N/D Skin Corrosion/Irritation: N/D

**ChemTreat** 



#### Personal Protection

Eyes: Safety glasses are recommended if risk of eye contact.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact. Skin:

If misting occurs, use NIOSH approved organic vapor/acid Respiratory:

gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

# Section 9. Physical and Chemical Properties

Liquid, Straw, Clear 1.151 @ 20°C 4.4 @ 20°C, 100.0% 34°F N/D Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point:

Odor: Melting Point: Mild N/D

Melting Point:
Initial Boiling Point and Boiling Range:
Solubility in Water:
Evaporation Rate:
Vapor Density:
Molecular Weight:
Viscosity:
Flammability (solid, gas):
Flammabile Limits:
Autolignition Temperature:
Density:
Vapor Pressure:
V, VOC:
Odor Threshold
n-octanol Partition Coefficient N/D Complete N/D Similar to water Similar to water N/D <100 CPS @ 20°C N/D N/A N/A 9.60 LB/GA Similar to water

n-octanol Partition Coefficient Decomposition Temperature N/D N/D

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Serious Eye Damage/Eye N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental Toxicity: N/D

Specific Target Organ Toxicity

Single Exposure: N/D Repeated Exposure: Aspiration Hazard: N/D Comments:

None

# Section 12. Ecological Information

#### Ecotoxicity

| Species            | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Bluegill Sunfish   | 96h      | LC50           | >1000 mg/l   |
| Rainbow Trout      | 96h      | LC50           | >1000 mg/l   |
| Daphnia magna      | 48h      | EC50           | >1000 mg/l   |
| Mysid Shrimp       | 48h      | LC50           | >1000 mg/l   |
| Inland Silverside  | 96h      | LC50           | >1000 mg/l   |
| Algae              | 96h      | EC50           | 58 mg/l      |
| Ceriodaphnia dubia | 48h      | LC50           | 888 mg/l     |
| Fathead Minnow     | 96h      | LC50           | 3314 mg/l    |

Persistence and Biodegradability:

Bioaccumulative Potential: N/D Mobility In Soil: N/D Other Adverse Effects: N/D Comments: None.

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# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. Not a RCRA-regulated hazardous waste when disposed in the original product form.

#### Section 14. Transport Information

| Controlling |         |                         |                 |               | Packing |
|-------------|---------|-------------------------|-----------------|---------------|---------|
| Regulation  | UN/NA#: | Proper Shipping Name:   | Technical Name: | Hazard Class: | Group:  |
| DOT         | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| IMDG        | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| TDG         | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |
| ICAO        | N/A     | COMPOUND, INDUSTRIAL    | N/A             | N/A           | N/A     |
|             |         | WATER TREATMENT, LIQUID |                 |               |         |

Note: N/A

#### Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

All ingredients listed. All ingredients listed.



#### Federal Regulations

#### SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: No No No Yes No Reactive Hazard: Release of Pressure: Acute Health Hazard: Chronic Health Hazard:

#### Other Sections

| Component  | Section 313<br>Toxic Chemical | Section 302 EHS<br>TPQ | CERCLA RQ |
|--|-------------------------------|------------------------|-----------|
| Components not listed are either non hazardous or in | N/A                           | N/A                    | N/A       |
| concentration of less than 1%                        |                               |                        | 1         |

None

State Regulations

California Proposition 65: None known.

Special Regulations

| Component  | States |
|--|--------|
| Components not listed are either non hazardous or in | None.  |
| concentration of less than 1%                        |        |

#### International Regulations

Canada

WHMIS Classification: N/A Controlled Product Regulations (CPR): N/A

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Compliance Information

NSF: N/A Food Regulations: N/A

KOSHER: This product is certified by the Orthodox Union as kosher

pareve.
Only when prepared by the following ChemTreat facilities:
Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.

FIFRA: N/A Other: None

# Section 16. Other Information

**HMIS Hazard Rating** 

Health: Flammability: Physical Hazard: PPE: 0 0 0 X

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

#### Abbreviations

| Abbreviation | Definition  |
|--------------|---|
| Appleviation |   |
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |
| N/D          | Not Determined  |
| N/E          | Not Established   |
| OSHA         | Occupational Health and Safety Dept                       |
| PEL          | Personal Exposure Limit                                   |
| STEL         | Short Term Exposure Limit                                 |

**ChemTreat** 



ChemTreat CL4428

| Abbreviation | Definition            |
|--------------|-----------------------|
| TLV          | Threshold Limit Value |
| TWA          | Time Weight Average   |
| UNK          | Unknown               |

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Product Compliance Department; ProductCompliance@chemtreat.com Prepared by:

Revision Date: May 9, 2016

# Disclaimer

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# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

ChemTreat BL124 Boiler Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)684–84579 March 20, 2017 March 20, 2017 Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS: Revision Date: Revision Number: March 20, 2017 17032001AN

#### Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s):

Corrosive to Metals – Category 1 Respiratory sensitization – Category 1 Sensitization Skin – Category 1 Skin corrosion/firitation – Category 2 Eye damage/irritation – Category 2a

Hazard Statement(s): H290 May be corrosive to metals H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary Statement(s): Sulphites may cause sensitization to susceptible individuals.

Prevention:

P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed

out of the workplace. P280 Wear protective gloves/protective clothing/eye

protection/face protection. P284 Wear respiratory protection.

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# Section 4. First Aid Measures

Inhalation Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Eyes

Skin: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical

Ingestion: Rinse mouth. Call a poison center or doctor/physician if you feel

Most Important Symptoms: N/D Indication of Immediate Medical Attention and N/A

medical Attention and Special Treatment Needed, If Necessary:

# Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from the Chemical:

Use water spray to keep containers cool. Product may emit toxic gases or fumes under fire conditions.

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus. Protective Equipment:



Storage:

Classified:



P302 + P352 IF ON SKIN: Wash with plenty of soap

and water.
P304 + P340 IF INHALED: Remove person to fresh
air and keep comfortable for breathing
P305 + P351 + P338 IF IN EYES: Rinse
cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists, get medical advice/attention. P333 + P313 If skin irritation or rash occurs: Get

medical advice/attention. P342 + P311 If experiencing respiratory symptoms:

Call a POISON CENTER/doctor. P362 + P364 Take off contaminated clothing and wash

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosive resistant container with a resistant inner liner.

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations. Disposal

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). System of Classification Used:

**Hazards Not Otherwise** 

None.

#### Section 3. Composition/Hazardous Ingredients

| Component        | CAS Registry # | Wt.%    |
|------------------|----------------|---------|
| Sodium bisulfite | 7631-90-5      | 15 - 40 |

Comments If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

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# Section 6. Accidental Release Measures

Personal Precautions Use appropriate Personal Protective Equipment (PPE).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. **Environmental Precautions:** 

Methods for Cleaning up: Contain and/or absorb spill with inert material then place in suitable container.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802. Other Statements:

Reportable Quantity of the product is 1618 Gal.

# Section 7. Handling and Storage

Handling:

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only. Do not store below 30°F.

Do not freeze. Store above Freeze Point. If freezes, then mechanical mixing is required.

#### Section 8. Exposure Controls/Personal Protection

# **Exposure Limits**

Storage:

| Component        | Source    | Exposure Limits |
|------------------|-----------|-----------------|
| Sodium bisulfite | ACGIH TLV | 5 mg/m³ TWA     |

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source

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#### Personal Protection

Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area Eyes:

Skin:

Maintain quick-drench facilities in work area.
Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.

If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134. Respiratory:

# Section 9. Physical and Chemical Properties

Liquid, Colorless – Straw, Clear 1.235 @ 20°C 3.9 @ 20°C, 100.0% 30°F N/D

Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point:

Odor: Melting Point: Strong N/A Melting Point:
Initial Boiling Point and Boiling Range:
Solubility in Water:
Evaporation Rate:
Vapor Density:
Molecular Weight:
Viscosity:
Flammability (solid, gas):
Flammable Limits:
Autoignition Temperature:
Density:

Density: Vapor Pressure: % VOC: Odor Threshold

n-octanol Partition Coefficient Decomposition Temperature

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Serious Eye Damage/Eye Irritation: N/D

Sensitization: N/D N/D Germ Cell Mutagenicity: N/D

Reproductive/Developmental Toxicity:

Specific Target Organ Toxicity

Single Exposure: N/D Repeated Exposure: N/D Aspiration Hazard: Comments: None

# Section 12. Ecological Information

#### Ecotoxicity

| Species            | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Sheepshead Minnow  | 96h      | LC50           | 100 mg/l     |
| Mysid Shrimp       | 48h      | LC50           | 70.7 mg/l    |
| Fathead Minnow     | 96h      | LC50           | >1000 mg/l   |
|                    | 96h      | LC50           | 849 mg/l     |
|                    | 7d       | NOEC           | 600 mg/l     |
|                    | 7d       | LOEC           | 1200 mg/l    |
|                    | 7d       | IC25           | 750 mg/l     |
| Ceriodaphnia dubia | 48h      | LC50           | 390.4 mg/l   |
|                    | 48h      | LC50           | 459 mg/l     |
|                    | 7d       | NOEC           | 300 mg/l     |
|                    | 7d       | LOEC           | 600 mg/l     |
|                    | 7d       | IC25           | 420 mg/l     |

Persistence and Biodegradability:

N/D

Bioaccumulative Potential: N/D Mobility In Soil: N/D Other Adverse Effects: N/D Comments: None.



# Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Acids, Mineral acids, Oxidizers,

Hazardous Decomposition Products: Sulfur dioxide gas, Oxides of sulfur.

Possibility of Hazardous Reactions: None known.

N/D Reactivity: Conditions To Avoid: N/D

# Section 11. Toxicological Information

#### **Acute Toxicity**

| Chemical Name    | Exposure | Type of Effect | Concentration | Species |
|------------------|----------|----------------|---------------|---------|
| Sodium bisulfite | Oral     | LD50           | 2000 MG/KG    | Rat     |

| Carcinogenicity Category |  |  |
|--------------------------|--|--|
|                          |  |  |

| Sodium bisulfite           |     | N/E | N/E | N/E | J |
|----------------------------|-----|-----|-----|-----|---|
| Likely Routes of Exposure: | N/D |     |     |     |   |

Symptoms

Inhalation: N/D Eye Contact: N/D N/D Skin Contact: Ingestion: N/D Skin Corrosion/Irritation: N/D

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# Section 13. Disposal Considerations

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

# Section 14. Transport Information

| Controlling<br>Regulation | UN/NA#: | Proper Shipping Name:                        | Technical Name:    | Hazard Class: | Packing<br>Group: |
|---------------------------|---------|--|--------------------|---------------|-------------------|
| DOT                       | UN2693  | BISULPHITES, AQUEOUS<br>SOLUTIONS, N.O.S.    | (SODIUM BISULFITE) | 8             | PGIII             |
| Over 1618 GA              | UN2693  | RQ BISULPHITES, AQUEOUS<br>SOLUTIONS, N.O.S. | (SODIUM BISULFITE) | 8             | PGIII             |
| IMDG                      | UN2693  | BISULPHITES, AQUEOUS<br>SOLUTIONS, N.O.S.    | (SODIUM BISULFITE) | 8             | PGIII             |
| TDG                       | UN2693  | BISULPHITES, AQUEOUS<br>SOLUTIONS, N.O.S.    | (SODIUM BISULFITE) | 8             | PGIII             |
| ICAO                      | UN2693  | BISULPHITES, AQUEOUS<br>SOLUTIONS, N.O.S.    | (SODIUM BISULFITE) | 8             | PGIII             |

Note: N/A

# Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

All ingredients listed. All ingredients listed.







#### SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Reactive Hazard: Release of Pressure: Acute Health Hazard: Chronic Health Hazard: No No Yes

Other Sections

|                  | Section 313    | Section 302 EHS |           |
|------------------|----------------|-----------------|-----------|
| Component        | Toxic Chemical | TPQ             | CERCLA RQ |
| Sodium bisulfite | N/A            | N/A             | 5000      |

Comments:

State Regulations

California Proposition 65:

This product may contain trace amounts of chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm. Sulfur dioxide

Special Regulations

| Con | nponent       | States             |
|-----|---------------|--------------------|
| Sod | ium bisulfite | MA, MN, NY, PA, WA |

#### International Regulations

Canada

WHMIS Classification:

D2A (Very Toxic Material) E (Corrosive Material)

Controlled Product Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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| Abbreviation | Definition                          |
|--------------|-------------------------------------|
| N/D          | Not Determined                      |
| N/E          | Not Established                     |
| OSHA         | Occupational Health and Safety Dept |
| PEL          | Personal Exposure Limit             |
| STEL         | Short Term Exposure Limit           |
| TLV          | Threshold Limit Value               |
| TWA          | Time Weight Average                 |
| LINK         | Linknown                            |

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: March 20, 2017

# Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Chem Treat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the confliction that the persons reasons are unlimate their undid them Treat, inc. be responsible for damages of any nature whatsoever resulting from the use or relaince upon information. No representation or warrantes, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereured with respect to information the product to which information refers.





Compliance Information

This product conforms to the requirements of the NSF Nonfood Compounds Registration Program, Registration #148827; Category G6, G7. NSF:

FDA: All ingredients in this product are authorized in 21 CFR 173.310 for use as "Boiler Water Food Regulations:

Additives" where the steam may contact food.

KOSHER: This product is certified by the Orthodox Union as kosher

Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Fontana, CA.

FIFRA: N/A Other None

Section 16. Other Information

HMIS Hazard Rating

Comments:

Health: Flammability: Physical Hazard: PPE:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

their use.

Abbreviations

| Abbreviation | Definition  |
|--------------|---|
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |

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# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters): ChemTreat BL152 Steam Line Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648-4579 **Telephone Number for Information:** Date of SDS: March 30, 2017 March 30, 2017 Revision Date: Revision Number 17033001AN

Section 2. Hazard(s) Identification



Signal Word: DANGER

GHS Classification(s):

Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Inhalation – Category 4

Hazard Statement(s):

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H312 Harmful in contact with skin. H332 Harmful if inhaled. H302 Harmful if swallowed.

Precautionary Statement(s):

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye
protection/face protection.

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P301 + P312 IF SWALLOWED: Call a POISON
CENTER or doctor/physician if you feel unwell
P301 + 330 + 331 IF SWALLOWED: Rinse mouth.
Do NOT induce vomiting,
P303 + P361 + P353 IF ON SKIN (or hair):
Remove/take off immediately all contaminated clothing.
Rinse skin with water/shower
P304 + P340 IF INHALED: Remove person to fresh
air and keep comfortable for breathing.

air and keep comfortable for breathing P305 + P351 + P338 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations. Disposal:

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). System of Classification Used:

Hazards Not Otherwise Classified:

None

# Section 3. Composition/Hazardous Ingredients

| Component          | CAS Registry # | Wt.%    |
|--------------------|----------------|---------|
| Ammonium hydroxide | 1336-21-6      | 10 - 30 |
| Ethanolamine       | 141-43-5       | 5 - 10  |

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

#### Section 4. First Aid Measures

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. Eyes

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# Section 7. Handling and Storage

Handling:

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.

Do not store or handle in aluminum, zinc, copper, or their alloys Store above Freeze Point.

# Section 8. Exposure Controls/Personal Protection

# Exposure Limits

| Component          | Source    | Exposure Limits |
|--------------------|-----------|-----------------|
| Ammonium hydroxide | N/E       | N/E             |
| Ethanolamine       | ACGIH TLV | 15 mg/m³ STEL   |
|                    | NIOSH     | 15 mg/m³ STEL   |
|                    | OSHA PEL  | 6 mg/m³ TW∆     |

Use only with adequate ventilation. The use of local ventilation is **Engineering Controls:** recommended to control emission near the source

Personal Protection

Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area. Eyes:

Skin: Maintain quick-drench facilities in work area

Wear buty rubber or neoprene gloves. Weah them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.

If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134. Respiratory:

**ChemTreat** 



Immediately remove/take off all contaminated clothing. Rinse s with water/shower. Wash contaminated clothing before re-use Immediately call a poison center or doctor/physician.

DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician. Ingestion:

Most Important Symptoms: Indication of Immediate N/A Medical Attention and Special Treatment Needed, If

Necessary:

# Section 5. Fire Fighting Measures

Flammability of the Product: Negative results obtained in sustained combustion test. Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire

Specific Hazards Arising from Thermal decomposition releases ammonia and oxides of nitrogen.

Other Statements:

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus. Protective Equipment:

# Section 6. Accidental Release Measures

Use appropriate Personal Protective Equipment (PPE). Personal Precautions:

Avoid dispersal of spilled material and runoff and contact with **Environmental Precautions:** 

soil, waterways, drains, and sewers,

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802. Reportable Quantity of the product is 844 Gal.

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# Section 9. Physical and Chemical Properties

Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point: Liquid, Colorless, Clear 0.947 @ 20°C 13.1 @ 20°C, 100.0% <-13°F >140°F

Odor: Melting Point: Strong N/A N/D Initial Boiling Point and Boiling Range: Solubility in Water: Soluble Evaporation Rate: Vapor Density: Molecular Weight: N/A N/D

N/D <100 CPS @ 20°C N/D

Molecular Weight:
Viscosity:
Flammability (solid, gas):
Flammable Limits,
Autolignition Temperature:
Density:
Vapor Pressure:
% VOC:
Odor Threshold
n-octanol Partition Coefficient
Decomposition Temperature N/A N/A N/A 7.90 LB/GA

## Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Strong oxidizers, Acids, Zinc, Copper/copper alloys

Hazardous Decomposition Products: Ammonia, Oxides of nitrogen.

Possibility of Hazardous Reactions: None known

Reactivity: N/D Conditions To Avoid: N/D

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# Section 11. Toxicological Information

|       | Tarrialtar |  |
|-------|------------|--|
| Acute | Toxicity   |  |

| Chemical Name      | Exposure | Type of Effect | Concentration | Species |
|--------------------|----------|----------------|---------------|---------|
| Ammonium hydroxide | Oral     | LD50           | 350 MG/KG     | Rat     |

#### Carcinogenicity Category

| Component          | Source | Code | Brief Description |
|--------------------|--------|------|-------------------|
| Ammonium hydroxide | N/E    | N/E  | N/E               |
| Ethanolamine       | N/E    | N/E  | N/E               |

Likely Routes of Exposure: N/D

N/D Eye Contact: N/D Skin Contact: N/D Ingestion: N/D Skin Corrosion/Irritation: N/D Serious Eye Damage/Eye Irritation: N/D Sensitization: N/D Germ Cell Mutagenicity: N/D Reproductive/Developmental Toxicity: N/D

Specific Target Organ Toxicity

Single Exposure: N/D N/D Repeated Exposure: Aspiration Hazard: N/D Comments: None

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Section 12. Ecological Information

#### **Ecotoxicity**

| Species            |     | Duration | Type of Effect | Test Results |  |
|--------------------|-----|----------|----------------|--------------|--|
| Ceriodaphnia dubia |     | 48h      | LC50           | 137 mg/l     |  |
| Fathead Minnow     |     | 96h      | LC50           | 76 mg/l      |  |
| Persistence and    | N/D |          |                |              |  |

Biodegradability: Bioaccumulative Potential: N/D Mobility In Soil: N/D Other Adverse Effects: N/D Comments: None

#### Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

#### Section 14. Transport Information

| Controlling |         | Daniel Obligation Name  | Technical Name: |               | Packing |
|-------------|---------|-------------------------|-----------------|---------------|---------|
| Regulation  | UN/NA#: | Proper Shipping Name:   | recnnicar Name: | Hazard Class: | Group:  |
| DOT         | UN2672  | AMMONIA SOLUTIONS (15%) | N/A             | 8             | PGIII   |
| Over 844 GA | UN2672  | RQ AMMONIA SOLUTIONS    | N/A             | 8             | PGIII   |
|             |         | (15%)                   |                 |               |         |
| IMDG        | UN2672  | AMMONIA SOLUTIONS (15%) | N/A             | 8             | PGIII   |
| TDG         | UN2672  | AMMONIA SOLUTIONS (15%) | N/A             | 8             | PGIII   |
| ICAO        | UN2672  | AMMONIA SOLUTIONS (15%) | N/A             | 8             | PGIII   |
| ANTT        | UN2672  | AMMONIA SOLUTIONS (15%) | N/A             | 8             | PGIII   |

Note: N/A

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# Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: No No Yes No Reactive Hazard: Release of Pressure: Acute Health Hazard: Chronic Health Hazard:

Other Sections

|                    | Section 313<br>Toxic Chemical | Section 302 EHS<br>TPQ | CERCLA RQ |
|--------------------|-------------------------------|------------------------|-----------|
| Ammonium hydroxide | Yes                           | N/A                    | 1000      |
| Ethanolamine       | N/A                           | N/A                    | N/A       |

State Regulations

California Proposition 65: None known.

Special Regulations

| Component          | States                             |
|--------------------|------------------------------------|
| Ammonium hydroxide | MA, NY, PA                         |
| Ethanolamine       | CA, ID, IL, MA, ME, MN, PA, WA, WI |





# International Regulations

Canada

WHMIS Classification: D1B (Toxic Material)

Controlled Product Regulations (CPR):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Compliance Information

NSF: N/A Food Regulations: N/A

KOSHER: This product has not been evaluated for Kosher approval

FIFRA: N/A Other: None Comments: None

#### Section 16. Other Information

HMIS Hazard Rating

Health: Flammability: Physical Hazard: PPE:

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

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#### Abbreviations

| Abbreviation | Definition  |
|--------------|---|
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |
| N/D          | Not Determined  |
| N/E          | Not Established   |
| OSHA         | Occupational Health and Safety Dept                       |
| PEL          | Personal Exposure Limit                                   |
| STEL         | Short Term Exposure Limit                                 |
| TLV          | Threshold Limit Value                                     |
| TWA          | Time Weight Average                                       |
| UNK          | Unknown   |

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

March 30, 2017

#### Disclaimer

Chemical name

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Common name and synonyms

ChemTreat BL152

| N-Oleyl-1,3-diaminopropane   |   | 7173-62-8   | 5 - < 10                                     |
|--|---|---|--|
| Acetic Acid  |   | 64-19-7   | 0 - < 5                                      |
| Formic Acid  |   | 64-18-6   | 0< 5   |
| Other components below repor   | able levels   |   | 90 - 100                                     |
| 4. First-aid measures  |   |   |  |
| Inhalation   | Move to fresh air. Call a physician if sy   | mptoms develop or persist.  |  |
| Skin contact   | Remove contaminated clothing. Wash medical advice/attention. Wash contam  |   | irritation occurs: Get                       |
| Eye contact  | Immediately flush eyes with plenty of w<br>present and easy to do. Continue rinsing   | rater for at least 15 minutes. Remove<br>ng. Get medical attention if irritation of                                     | contact lenses, if<br>develops and persists. |
| Ingestion  | Rinse mouth. Get medical attention if s   | ymptoms occur.  |  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Severe eye irritation. Symptoms may ir<br>vision. Skin irritation. May cause redne<br>effects.  |   |  |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures a<br>Symptoms may be delayed.   | and treat symptomatically. Keep victi   | m under observation.                         |
| General information  | If you feel unwell, seek medical advice personnel are aware of the material(s)  |   |  |
| 5. Fire-fighting measures  |   |   |  |
| Suitable extinguishing media   | Water fog. Foam. Dry chemical powder  | . Carbon dioxide (CO2).   |  |
| Unsuitable extinguishing<br>media  | Do not use water jet as an extinguisher   | , as this will spread the fire.   |  |
| Specific hazards arising from<br>the chemical                                | During fire, gases hazardous to health  | may be formed.  |  |
| Special protective equipment<br>and precautions for firefighters             | Self-contained breathing apparatus and  | full protective clothing must be wor  | n in case of fire.                           |
| Fire fighting<br>equipment/instructions                                      | Move containers from fire area if you ca  | an do so without risk.  |  |
| Specific methods   | Use standard firefighting procedures ar   | nd consider the hazards of other invo   | olved materials.                             |
| General fire hazards   | No unusual fire or explosion hazards no   | oted.   |  |
| 6. Accidental release mea  | sures   |   |  |
| Personal precautions,<br>protective equipment and<br>emergency procedures    | Keep unnecessary personnel away. Ke appropriate protective equipment and co touch damaged containers or spilled m Ensure adequate ventilation. Local authorities. For personal protection, see  | lothing during clean-up. Do not brea<br>aterial unless wearing appropriate p<br>norities should be advised if significa | the mist/vapors. Do no<br>otective clothing. |
| Methods and materials for  | Prevent product from entering drains.   |   |  |
| containment and cleaning up  | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush are            |   |  |
|  | Small Spills: Wipe up with absorbent m remove residual contamination.   | aterial (e.g. cloth, fleece). Clean sur   | face thoroughly to                           |
|  | Never return spills to original containers  | s for re-use. For waste disposal, see   | section 13 of the SDS                        |
| Environmental precautions  | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of<br>environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge<br>drains, water courses or onto the ground. |   |  |
| 7. Handling and storage  |   |   |  |
|  |   |   |  |

Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.



# **SAFETY DATA SHEET**



1. Identification Product identifier BL8401

Other means of identification

BL8401 Product code

Recommended use Boiler Water Treatment Recommended restrictions None known.

Manufacturer/Importer/Supplier /Distributor information

Manufacturer Company name Address

ChemTreat 5640 Cox Road Glen Allen, VA 23060 United States 800-648-4579

Telephone E-mail Not available

800-424-9300 Emergency phone number

2. Hazard(s) identification

Physical hazards Not classified.

Skin corrosion/irritation Health hazards

Category 2 Serious eye damage/eye irritation Specific target organ toxicity, repeated Category 2 Category 1

Hazardous to the aquatic environment, acute Category 2

OSHA defined hazards Not classified

Label elements

Environmental hazards



Signal word

Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Hazard statement

Precautionary statement

Response

Prevention

Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

In reyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

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

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

Supplemental information

3. Composition/information on ingredients

Mixtures

BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

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

8. Exposure controls/personal protection

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

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

Value Acetic Acid (CAS 64-19-7) PFI 25 mg/m3 10 ppm 9 mg/m3 Formic Acid (CAS 64-18-6) PEL 5 ppm US. ACGIH Threshold Limit Values Туре Value Acetic Acid (CAS 64-19-7) STEL 15 ppm TWA 10 ppm Formic Acid (CAS 64-18-6) STEL 10 ppm TWA 5 ppm US. NIOSH: Pocket Guide to Chemical Hazards Value Type Acetic Acid (CAS 64-19-7) STEL 37 mg/m3 15 ppm TWA 25 mg/m3 10 ppm

Biological limit values

Formic Acid (CAS 64-18-6)

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

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. It exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

9 mg/m3 5 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other

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

Respiratory protection Not available.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. General hygiene

9. Physical and chemical properties

Appearance

Physical state Liquid Form Liquid. Color Light Straw Odor Odor threshold Not available

Material name: BL8401 BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

sos us

Material name: BL8401 BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

Precautions for safe handling

sps us

7 - 8 (100% @ 20C) Melting point/freezing point 39.20 °F (4.00 °C) Initial boiling point and boiling Not available. Evaporation rate Not available Flammability (solid, gas) Not applicable Unner/lower flammability or explosive limits Flammability limit - lower Not available (%) Flammability limit - upper Not available Explosive limit - lower (%) Explosive limit - upper (%) Not available Not available Vapor pressure Not available Vapor density Relative density Not available Solubility(ies) Solubility (water) Not available Partition coefficient (n-octanol/water) Not available Auto-ignition temperature Not available Not available Decomposition temperature 0 - 200 cps Other information Explosive properties Oxidizing properties Not oxidizing. Pounds per gallon Specific gravity 0.99 - 1 @ 20C voc 0 %w/w 10. Stability and reactivity Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. Chemical stability Material is stable under normal conditions. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use Conditions to avoid Contact with incompatible materials. Incompatible materials Strong oxidizing agents.

11. Toxicological information

Hazardous decomposition products

Information on likely routes of exposure

Inhalation

Skin contact

Prolonged inhalation may be harmful Causes skin irritation.

Eve contact

Causes serious eve irritation.

Ingestion

Expected to be a low ingestion hazard.

No hazardous decomposition products are known

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms related to the

physical, chemical and toxicological characteristics Information on toxicological effects

Acute toxicity

Not known

rial name: BL8401

BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. 13. Disposal considerations

Disposal instructions

Other adverse effects

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or use container. Dispose of contents/container in accordance with local/regional/national/internations.

Dispose in accordance with all applicable regulations. Local disposal regulations

D002: Waste Corrosive material [pH <=  $2\sigma$  =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

DISPUSAL INSULCIONS).

Since emplied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Not regulated as dangerous goods

IATA Not regulated as dangerous goods.

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and Not established

the IBC Code

15. Regulatory information US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Acetic Acid (CAS 64-19-7)
Formic Acid (CAS 64-18-6)
SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Classified hazard Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)

categories

% by wt. 64-18-6

SARA 313 (TRI reporting) Chemical name Formic Acid Other federal regulations

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

Not regulated.

Material name: BL8401 BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

sos us 6/8

Components Species Test Results Acetic Acid (CAS 64-19-7) Acute LD50 1060 mg/kg Inhalation 11.4 mg/l, 4 Hours Oral 3.31 g/kg Formic Acid (CAS 64-18-6) <u>Acute</u> Inhalation LC50 7.4 mg/l, 4 Hours Oral LD50 730 mg/kg Rat Skin corrosion/irritation Causes skin irritation Serious eye damage/eye Causes serious eye irritation irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic Carcinogenicity Not classifiable as to carcinogenicity to humans. IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated US. National Toxicology Program (NTP) Report on Carcinogens Not listed Reproductive toxicity This product is not expected to cause reproductive or developmental effects Specific target organ toxicity - single exposure Not classified. Specific target organ toxicity - Causes damage to organs through prolonged or repeated exposure repeated exposure Aspiration hazard Not an aspiration hazard. Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Chronic effects 12. Ecological information Ecotoxicity Toxic to aquatic life Product Test Results Species BI 8401 Aquatic Acute 3.9 mg/l, 96 h Crustacea LC50 Mysid Shrimp (Mysidopsis bahia) Fish LC50 Inland silverside (Menidia bervllina) 2.7 mg/l. 48 h Persistence and degradability No data is available on the degradability of any ingredients in the mixture Bioaccumulative potential Partition coefficient n-octanol / water (log Kow) Acetic Acid Formic Acid No data available

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

Not regulated.

Safe Drinking Water Act Not regulated

Mobility in soil

sps us 4 / 8

Material name: BL8401

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace High priority High priority

Acetic Acid (CAS 64-19-7) Formic Acid (CAS 64-18-6)

BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P56Warnings.ca.gov.

International Inventories

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

"A"Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

"A"Or indicates that one or more components of the product are not listed or example from listing on the inventory administered by the governing Yes

untry(s)

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve Only when prepared by the following ChemTreat facilities: Ashland, VA Eldridge IA Nederland, TX



Compliance Information: Food Regulations

21 CFR 173.310 (d)
Based on established FDA criteria and risk evaluations, BL8401 does not migrate at levels of concern and would be
exempled from the regulation as a food additive when the product is fed at a maximum of 2 ppm in bolier feed water
ppm when fed to the steam header. The product may not be used in steam that contacts milk or milk products.

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

05-19-2021 Issue date Revision date 02-06-2023 Version # 08 Health: 3\* Flammability: 0 Physical hazard: 0 Personal protection HMIS® ratings

Material name: BL8401 BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021 sos us 7 / 8

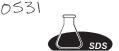
ChemTreat cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the good faith and believed to be considered to the control of the state of the state of the product of the state of the stat

Revision information Other information

Regulatory information: Compliance Information:Food

Prepared by: Product Compliance Department: ProductCompliance@chemtreat.com

**6** ChemTreat



### SAFETY DATA SHEET

#### Section 1. Chemical Product and Company Identification

Product Name: Product Use:

Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS: Revision Date: Revision Number:

Chemical Treatment CL206
Cooling Water and Reverse Osmosis
Microbiocide
ChemTreat, Inc.
(800)424–9300 (Toll Free)
5640 Cox Road
Glen Allen, WA 23060
(800)648–4579
March 20, 2019
19032001AN

Chemical Treatment CL206

#### Section 2. Hazard(s) Identification

Signal Word:

Eye damage/irritation – Category 1 Skin corrosion/irritation – Category 1a Sensitization Skin – Category 1 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4 Hazardous to the aquatic environment Acute – Category 2 GHS Classification(s):

Hazard Statement(s):

H318 Causes serious eye damage. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H332 Harmful If inhaled. H302 Harmful If swallowed. H401 Toxic to aquatic life.

Precautionary Statement(s):

Skin:

Necessary:

Page 1 of 11

Chemical Treatment CL206



Material name: BL8401 BL8401 Version #: 08 Revision date: 02-06-2023 Issue date: 05-19-2021



Prevention: P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed

out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release into the environment.

Response:

P273 Avoid release into the environment.

P301 + P312 + P330 IF SWALLOWED: Call a
POISON CENTER or doctor/physician if you feel
unwell. Rinse mouth.
D011 + 330 + 331 IF SWALLOWED: Rinse mouth.
D0 NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair):
Remove/take off immediately all contaminated olothing.
Rinse skin with water/shower.
P304 + P340 + P340 IF INHALED: Remove person
to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or
doctor/physician. irritation or rash occurs: Get
medical advice/attention.
P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

System of Classification Used:

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise Classified:

Disposal:

None.

### Section 3. Composition/Hazardous Ingredients

| Component                         | CAS Registry # | Wt.% |
|-----------------------------------|----------------|------|
| 2-2-Dibromo-3-nitrilopropionamide | 10222-01-2     | 20   |

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

**ChemTreat** 



#### Section 4. First Aid Measures

Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel Inhalation

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a poison center or doctor/physician. Eyes:

> Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use Immediately call a poison center or doctor/physician.

DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician. Ingestion:

Most Important Symptoms:

Indication of Immediate Probable mucosal damage may contraindicate the use of gastric

Special Treatment Needed, If

lavage.
Have the product container, label or MSDS with you when calling a poison control center or doctor, or when going for treatment.

### Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable

Use extinguishing media suitable to surrounding fire. Suitable Extinguishing Media:

Specific Hazards Arising from Product may emit toxic gases or fumes under fire conditions.

If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus. Protective Equipment:

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#### Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE)

**Environmental Precautions:** 

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Contain and recover liquid when possible. Flush spill area with Methods for Cleaning up:

None.

Section 7. Handling and Storage

Other Statements:

Handling:

Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.

Do not store above 95°F.
Store above Preeze Point.
Do not store or handle in aluminum, steel, copper, or their alloys. Storage:

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Chemical Treatment CL206

### Section 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

Component Source Exposure Limits

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source. Engineering Controls:

Personal Protection

Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.

Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact. Skin

If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134. Respiratory:

#### Section 9. Physical and Chemical Properties

Liquid, Colorless, Clear 1.225 @ 20°C 2.2 @ 20°C, 100.0% <-11°F

Physical State and Appearance:
Specific Gravity:
pH:
Freezing Point:
Flash Point:
Odor:
Melting Point:
Initial Boiling Point and Boiling Range:
Solubility in Water:
Evaporation Rate:
Vapor Density:
Molecular Weight:
Viscosity: 212°F Strong N/D N/D >158°F

>158°F Appreciable N/D N/D N/A N/D N/A Molecular Weight: Viscosity: Flammability (solid, gas): Flammable Limits: Autoignition Temperature: Density: N/A 10.20 LB/GA

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Chemical Treatment CL206





Vapor Pressure: % VOC: Odor Threshold n-octanol Partition Coefficient Decomposition Temperature N/D N/D N/D N/D

### Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various Substances:

Strong oxidizers, Strong bases, Aluminum/aluminum alloys.

Dibromoacetonitrite, Cyanogen bromide, Carbon dioxide, Bromine, Toxic vapors/fumes/gases.

Hazardous Decomposition Products:

Possibility of Hazardous Reactions:

None known. N/D

Reactivity Conditions To Avoid:

### Section 11. Toxicological Information

### Acute Toxicity

| Chemical Name            | Exposure   | Type of Effect | Concentration | Species |
|--------------------------|------------|----------------|---------------|---------|
| Chemical Treatment CL206 | Oral       | LD50           | 510 MG/KG     | Rat     |
|                          | Inhalation | LC50           | 1.25 MG/L     | Rat     |
|                          | Dermal     | LD50           | >2000 MG/KG   | Rabbit  |

### Carcinogenicity Category

| Component                         | Source | Code | Brief Description |
|-----------------------------------|--------|------|-------------------|
| 2-2-Dibromo-3-nitrilopropionamide | N/E    | N/E  | N/E               |

Likely Routes of Exposure: N/D

Symptoms

Inhalation N/D

Eve Contact:

N/D

ChemTreat



Skin Contact: N/D N/D Ingestion: Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye Irritation: N/D

Sensitization: N/D Germ Cell Mutagenicity: N/D Reproductive/Developmental Toxicity: N/D

Specific Target Organ Toxicity

N/D Single Exposure: Repeated Exposure: N/D

Aspiration Hazard: N/D ments:

### Section 12. Ecological Information

19032001AN 03/20/19

| Species            | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Daphnia magna      | 48h      | LC50           | 6.2 mg/l     |
| Bluegill Sunfish   | 96h      | LC50           | 6.5 mg/l     |
| Rainbow Trout      | 96h      | LC50           | 5 mg/l       |
| Fathead Minnow     | 96h      | LC50           | 6.8 mg/l     |
| Ceriodaphnia dubia | 48h      | LC50           | 5.733 mg/l   |
| Sheepshead Minnow  | 96h      | LC50           | 7 mg/l       |

Persistence and Biodegradability: N/D N/D Bioaccumulative Potential:

N/D Mobility In Soil: Other Adverse Effects: N/D

Comments: Based on active ingredient





### Section 13. Disposal Considerations

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container for equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.

#### Section 14. Transport Information

| Controlling<br>Regulation | UN/NA#: | Proper Shipping Name:                        | Technical Name:                         | Hazard Class: | Packing<br>Group: |
|---------------------------|---------|--|---|---------------|-------------------|
| DOT                       | UN3265  | CORROSIVE LIQUID, ACIDIC,<br>ORGANIC, N.O.S. | (2,2-DIBROMO-3-<br>NITRILOPROPIONAMIDE) | 8             | PGIII             |
| IMDG                      | UN3265  | CORROSIVE LIQUID, ACIDIC,<br>ORGANIC, N.O.S. | (2,2-DIBROMO-3-<br>NITRILOPROPIONAMIDE) | 8             | PGIII             |
| ICAO                      | UN3265  | CORROSIVE LIQUID, ACIDIC,<br>ORGANIC, N.O.S. | (2,2-DIBROMO-3-<br>NITRILOPROPIONAMIDE) | 8             | PGIII             |
| TDG                       | UN3265  | CORROSIVE LIQUID, ACIDIC,<br>ORGANIC, N.O.S. | (2,2-DIBROMO-3-<br>NITRILOPROPIONAMIDE) | 8             | PGIII             |

Note: N/A

### Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

All ingredients listed or exempt All ingredients listed or exempt

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Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Registration Number: 464-426-15300.

### Section 16. Other Information

### HMIS Hazard Rating

Health: Flammability: Physical Hazard: PPE:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

#### Abbreviations

| Abbreviation | Definition.   |
|--------------|---|
| <            | Less Than   |
| >            | Greater Than  |
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| EHS          | Environmental Health and Safety Dept                      |
| N/A          | Not Applicable  |
| N/D          | Not Determined  |
| N/E          | Not Established   |
| OSHA         | Occupational Health and Safety Dept                       |
| PEL          | Personal Exposure Limit                                   |
| STEL         | Short Term Exposure Limit                                 |
| TLV          | Threshold Limit Value                                     |
| TWA          | Time Weight Average                                       |
| UNK          | Unknown   |

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

March 20, 2019 Revision Date:





### Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Reactive Hazard: Release of Pressure: Acute Health Hazard: Chronic Health Hazard:

#### Other Sections

| Component                         | Section 313<br>Toxic Chemical | Section 302 EHS | CERCLA RQ |
|-----------------------------------|-------------------------------|-----------------|-----------|
| 2-2-Dibromo-3-nitrilopropionamide | No                            | N/A             | N/A       |

Comments:

#### State Regulations

California Proposition 65:

Special Regulations

Component 2-2-Dibromo-3-nitrilopropionamic

#### Compliance Information

NSF:

Certified to NSF/ANSI Standard 60 NSF as a membrane cleaner. This product is designed to be used off-line and flushed out prior to using the system for deliving water.

used off-line and flushed out prid for drinking water. This product ships as NSF from: Ashland, VA Eldridge, IA Nederland, TX

Food Regulations: N/A

KOSHER:

This product is certified by the Orthodox Union as Kosher for Passover and year-round use. Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX.

This product has not been evaluated for Halal approval Halal:

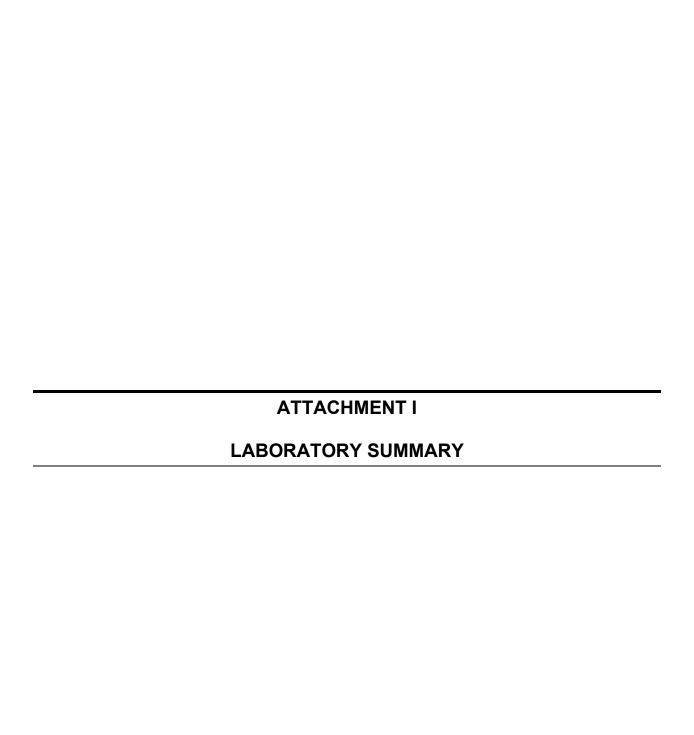
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### Disclaimer

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## **ATTACHMENT I**

# ANALYTICAL TESTING LABORATORY INFORMATION

| Laboratory   | SI  | PL                                     |  |
|--------------|---|--|--|
| Name         |   |  |  |
| Address      | 2600 Dudley Rd, Kilgore, TX 75662             |  |  |
| Phone Number | 903-984-0551                                  |  |  |
| Email        |   | gement@spllabs.com                     |  |
| Sample Dates |   | 5, 4/2/25, 4/9/25                      |  |
| Pollutants   | Table 1:                                      | Table 2:                               |  |
| Analyzed     | • BOD (5-Day)                                 | • Aluminum                             |  |
|              | • CBOD (5-Day)                                | Antimony                               |  |
|              | <ul> <li>Chemical oxygen demand</li> </ul>    | Arsenic                                |  |
|              | Total organic carbon                          | Barium                                 |  |
|              | Ammonia nitrogen                              | Beryllium                              |  |
|              | <ul> <li>Total suspended solids</li> </ul>    | • Cadmium                              |  |
|              | Nitrate nitrogen                              | • Chromium, total                      |  |
|              | <ul> <li>Total organic nitrogen</li> </ul>    | • Chromium, hexavalent                 |  |
|              | <ul> <li>Total phosphorus</li> </ul>          | • Chromium, trivalent                  |  |
|              | <ul> <li>Oil and grease</li> </ul>            | • Copper                               |  |
|              | <ul> <li>Total residual chlorine</li> </ul>   | <ul> <li>Cyanide, available</li> </ul> |  |
|              | <ul> <li>Total dissolved solids</li> </ul>    | • Lead                                 |  |
|              | • Sulfate                                     | Mercury                                |  |
|              | • Fluoride                                    | Nickel                                 |  |
|              | <ul> <li>Total alkalinity (mg/L as</li> </ul> | Selenium                               |  |
|              | CaCo3)  | • Silver                               |  |
|              |   | Thallium                               |  |
|              | Field Parameters by Applicant                 | • Zinc                                 |  |
|              | <ul> <li>Total residual chlorine</li> </ul>   |  |  |
|              | • Temperature (°F)                            | Table 6:                               |  |
|              | • pH  | • Color                                |  |
|              | <ul> <li>Dissolved Oxygen</li> </ul>          | Nitrate-Nitrite                        |  |
|              |   | Magnesium                              |  |

| Pollutants | Table 8:  | Table 9:  |
|------------|---|---|
| Analyzed   | <ul> <li>Acrolein</li> <li>Acrylonitrile</li> <li>Benzene</li> <li>Bromoform</li> <li>Carbon tetrachloride</li> </ul>                           | <ul> <li>2-Chlorophenol</li> <li>2,4-Dichlorophenol</li> <li>2,4-Dimethylphenol</li> <li>4,6-Dinitro-o-cresol</li> <li>2,4-Dinitrophenol</li> </ul> |
|            |   |   |
|            | <ul> <li>1,1,1-Trichlorethane</li> <li>1,1,2-Trichlorethane</li> <li>Trichloroethylene<br/>[Trichloroethene]</li> <li>Vinyl chloride</li> </ul> |   |

### **Candice Calhoun**

From: Koch, Nancy < Nancy.Koch@WestonSolutions.com>

**Sent:** Friday, July 25, 2025 1:29 PM

**To:** Candice Calhoun

**Cc:** ray.dube@calpine.com; Orielle Buentello; Jaron Bergin; Ty Pate; Jacob Key; Marcus

Augustine

Subject:RE: [EXT]:Application to Renew Permit No. WQ0004138000 - Notice of DeficiencyAttachments:\_WQ0004138000\_ANOD\_Response.pdf; WQ0004138000\_Spanish\_NORI.docx

Candice:

Attached please find our response to the Notice of Deficiency.

Let us know if you need anything additional.

Regards, Nancy



5301 Southwest Parkway, Suite 450 Austin, TX 78735

(f) Trust.Performance.People

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Thursday, July 10, 2025 10:09 AM

To: Koch, Nancy < Nancy.Koch@WestonSolutions.com>

Cc: ray.dube@calpine.com

Subject: [EXT]: Application to Renew Permit No. WQ0004138000 - Notice of Deficiency

Importance: High

\*\*\* External Message \*\*\* -- PROBE message before clicking links or opening attachments.

Good morning, Ms. Koch,

The attached Notice of Deficiency (NOD) letter dated <u>July 10, 2025</u>, requests additional information needed to declare the application administratively complete. Please send complete response no later than <u>July 24, 2025</u>.

Please let me know if you have any questions.

Regards,

### Candice Courville



License & Permit Specialist ARP Team | Water Quality Division Texas Commission on Environmental Quality 512-239-4312

candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at <a href="https://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

**CAUTION:** This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

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25 July 2025

Candice Calhoun Application Review and Processing Team (MC 148) Water Quality Division Texas Commission on Environmental Quality

Via: candice.calhoun@tceq.texas.gov

Re: Response to Administrative Notice of Deficiency WQ0004138000
Public Utilities Board of the City of Brownsville, Texas (CN601658651); Hidalgo Energy Center, L.P. (CN600131932); Calpine Operating Services Company Inc. (CN602680076)
Calpine Hidalgo Energy Center (RN100224989)

### Dear Ms. Calhoun:

Weston Solutions, Inc. (WESTON®) is pleased to submit this response to your Administrative Notice of Deficiency (ANOD), dated 10 July 2025, for the Texas Pollutant Discharge Elimination System (TPDES) permit application that was submitted on 8 July 2025. WESTON's response to the numbered comments/deficiencies on an item-by-item basis is provided below:

- 1. **Original Paper Copy of the Application.** The original paper copy of the application was sent via FedEx to TCEQ on 8 July 2025 and FedEx confirmed delivery of it on 10 July 2025.
- **2. USGS Topographic Map.** The USGS map has been updated to show the applicant facility boundary as well as the applicant property boundary, which is provided in **Attachment A**.
- 3. Portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI). We have reviewed the NORI language provided and have one comment, provided in Attachment B.
- 4. **Spanish NORI**. The Spanish NORI, file "WQ0004138000\_Spanish\_NORI.docx," is provided as an attachment to the email referenced above, and a copy is included in **Attachment C**.

Should you have any questions regarding this submittal, please contact me at nancy.koch@westonsolutions.com or at (512) 651-7104.

Very truly yours, Weston Solutions, Inc.

Nancy L. Koch, P.E. Project Manager

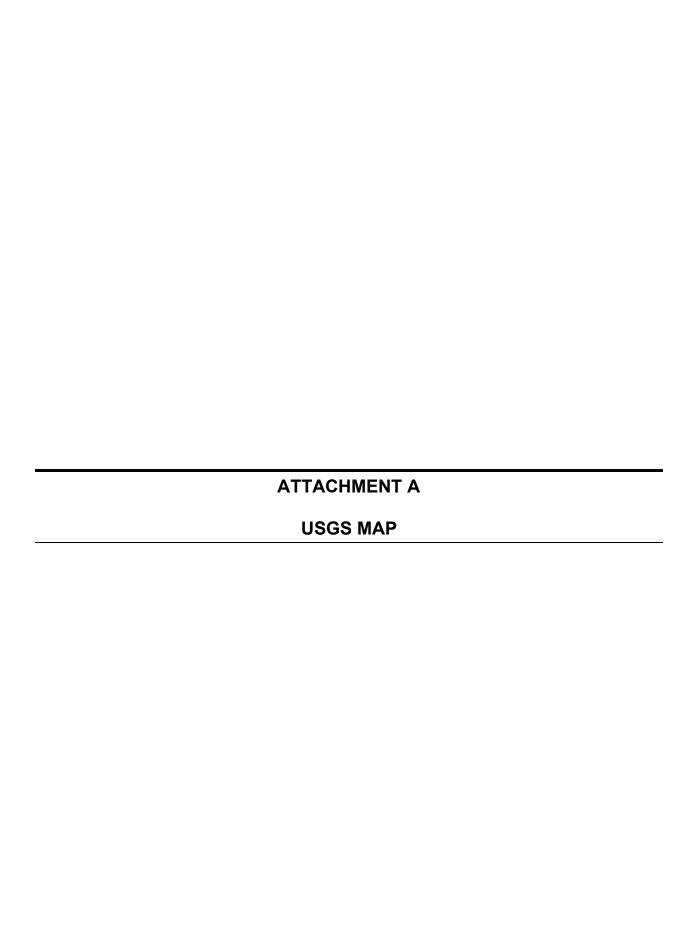
### **Attachments:**

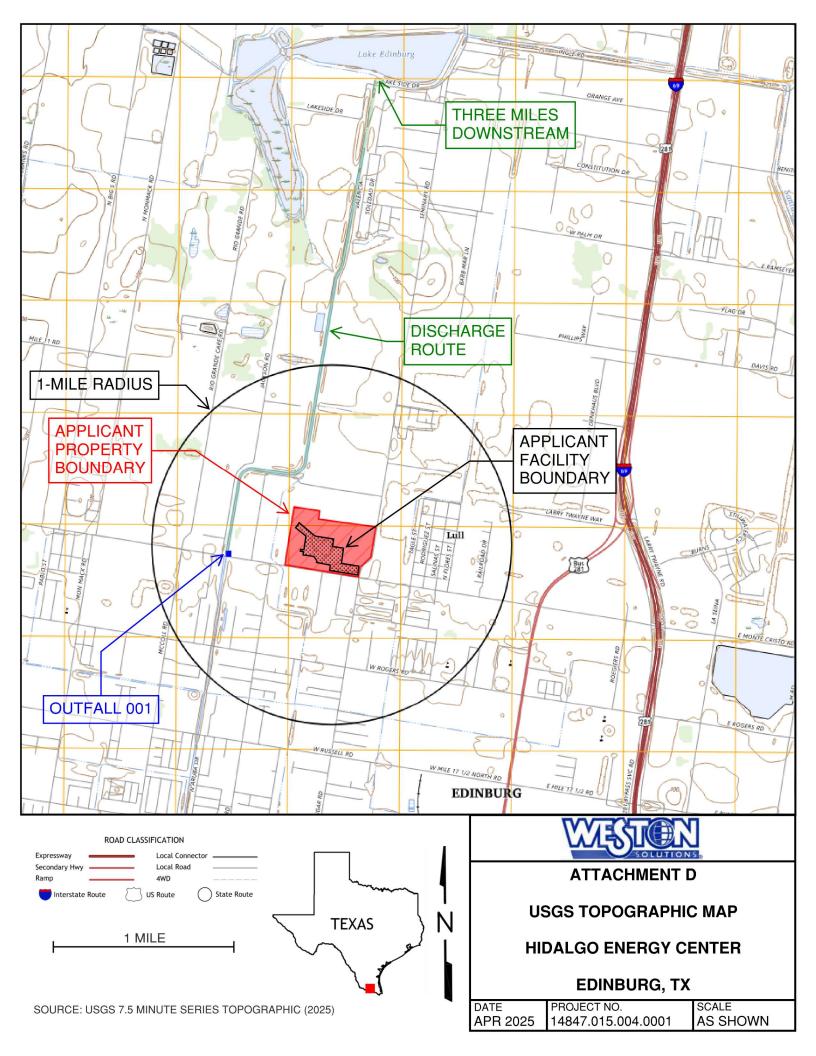
Attachment A – USGS Map

Attachment B – Comments on English NORI

Attachment C – Spanish NORI

cc: Ray Dube, Calpine







Ms. Nancy Koch, P.E. Page 2 July 10, 2025 Permit No. WQ0004138000

(TCEQ) to

APPLICATION. Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., and Calpine Operating Services Company, Inc., 717 Texas Avenue, Suite 1000, Houston, Texas 77002, which own a 500-megawatt combined cycle electric power generating facility, have applied to the Texas Commission on Environmental Quality (TCEQto renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004138000 (EPA I.D. No. TX0119423) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 920,000 gallons per day via Outfall 001. The facility is located at 4005 North Seminary Road, in the city of Edinburg, in Hidalgo County, Texas 78541. The discharge route is from the plant site to North Main Drain III; thence to North Main Drain II; thence to North Main Drain II; thence to North Main Drain II; thence to Laguna Madre. TCEQ received this application on July 8, 2025. The permit application will be available for viewing and copying at Dustin Michael Sekula Memorial Library, Reference Desk, 1906 South Closner Boulevard, Edinburg, in Hidalgo County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.175,26.341944&level=18

Further information may also be obtained from Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., and Calpine Operating Services Company, Inc. at the address stated above or by calling Mr. Ray Dube, EHS Manager, Calpine Operating Services Company, Inc., at 830-305-8429.

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

Please submit the complete response, addressed to my attention by July 24, 2025. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4312 or by email at <a href="mailto:canhoun@tceq.texas.gov">canhoun@tceq.texas.gov</a>

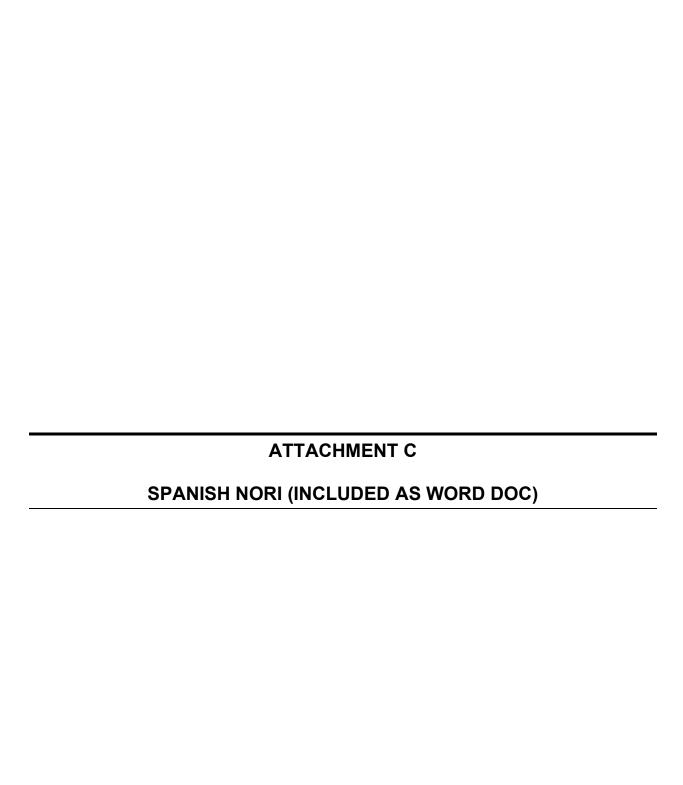
Sincerely,

Candice Calhoun

Applications Review and Processing Team (MC148)

Water Quality Division

Texas Commission of Environmental Quality



## 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. WQ000

**SOLICITUD.** Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., y Calpine Operating Services Company, Inc., que posee una instalación de generación de electricidad de ciclo combinado de 500 megavatios, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0004138000 (EPA I.D. No. TX0119423) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 920,000 galones por día. La planta está ubicada 4005 N Seminary Road, Edinburg en el Condado de Hidalgo, Texas 78541. La ruta de descarga es del sitio de la planta a Drenaje Principal Norte III; de ahí al Drenaje Principal Norte II; de ahí al Drenaje Principal Norte I; de ahí al Canal de Inundación Norte; de ahí a Laguna Madre. La TCEO recibió esta solicitud el 8 de julio de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Dustin Michael Sekula Memorial Library, mesa de referencia, 1906 S Closner Boulevard, Edinburg, en el Condado de Hidaglo, Texas antes de la fecha de publicación de este aviso en el periódico. 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=-98.175,26.341944&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

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

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

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

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 Public Utilities Board of the City of Brownsville, Texas, Calpine Hidalgo Energy Center, L.P., y Calpine Operating Services, Inc. a la dirección indicada arriba o llamando a Sr. Ray Dube, Gerente de EHS, al 830-305-8429.

Fecha de emisión: [Date notice issued]

