Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

City of Huntsville, TX (CN:600745566) operates N.B. Davidson WWTP (RN101917961), a wastewater treatment plant. The facility is located at 1860 Camellia Dr, in Huntsville, Walker County, Texas 77340. The City is requesting an expansion of the existing facility from a 2-hour peak flow of 4.0 MGD to 6.5 MGD. Additionally, the treatment process will be converted from conventional activated sludge (CAS) to a sequencing batch reactor (SBR).

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

AGUAS RESIDUALES DOMESTICAS **/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.

City of Huntsville, TX (CN:600745566) opera N.B. Davidson WWTP RN101917961, un wastewater treatment plnt. La instalación está ubicada en 1860 Camellia Dr, en Huntsville,, Condado de Walker, Texas 77340. La Ciudad está solicitando una ampliación de las instalaciones existentes, pasando de un caudal máximo de 4.0 MGD a 6.5 MGD. Además, el proceso de tratamiento se cambiará de lodos activados convencionales (CAS) a un reactor de lotes secuenciales (SBR).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010781002

APPLICATION. City of Huntsville, 1212 Avenue M, Huntsville, Texas 77340, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781002 (EPA I.D. No. TX0022373) to authorize an increase in 2-hour peak flow from 4.0 MGD to 6.5 MGD, and the treatment process will be converted from conventional activated sludge (CAS) to a sequencing batch reactor (SBR). The domestic wastewater treatment facility is located approximately 3.5 miles south of the intersection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles of southwest of the Elkins Lake Dam, near the city of Huntsville, in Walker County, Texas 77340. The discharge route is from the plant site to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe. TCEQ received this application on September 19, 2024. The permit application will be available for viewing and copying at City of Huntsville Service Center, 448 State Highway 75 North, Huntsville, 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=-95.552222,30.645277&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Huntsville at the address stated above or by calling Mr. Stacy Lawler, Wasetwater Superintendent, at 936-294-5763.

Issuance Date: November 7, 2024

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD Y
EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
MODIFICACION

PERMISO NO. WQ0010781002

SOLICITUD. La Ciudad de Huntsville, ubicada en 1212 Avenue M, Huntsville, Texas 77340, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0010781002 (EPA I.D. No. TX0022373) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar un aumento en el flujo máximo de 2 horas de 4.0 MGD a 6.5 MGD, y el proceso de tratamiento se cambiara de lodos activados convencionales (CAS) a un reactor de lotes secuenciales (SBR). La planta está aproximadamente a 3.5 millas al sur de la intersección de Farm-to-Market Road 1374 y la Carretera Interestatal I-45, y a 1.4 millas al suroeste de la presa de Elkins Lake, al sur de la ciudad de Huntsville, cerca de la ciudad de Huntsville, en el Condado de Walker, Texas 77340. La ruta de descarga es desde el sitio de la planta hacia un afluente sin nombre, luego hacia Persimmon Creek, luego hacia East Sandy Creek, y posteriormente hacia el Lago Conroe en el Segmento No. 1012 de la Cuenca del Río San Jacinto. La TCEQ recibió esta solicitud el 19 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Centro de Servicios de la Ciudad de Huntsville, ubicado en 448 State Highway 75 North, Huntsville, 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=-95.552222,30.645277&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay

un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

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

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

designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener información adicional de La Ciudad de Huntsville a la dirección indicada arriba o llamando a Sr. Stacy Lawler, Superintendente de Aguas Residuale, al 936-294-5763.

Fecha de emisión 7 de noviembre de 2024

Texas Commission on Environmental Quality

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

AMENDMENT

PERMIT NO. WQ0010781002

APPLICATION AND PRELIMINARY DECISION. City of Huntsville, 1212 Avenue M, Huntsville, Texas 77340, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment with renewal to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781002, to authorize the relocation of Outfall 001 approximately 75 feet southwest of the current location, and to convert the treatment process from conventional activated sludge to sequencing batch reactor (SBR) in the Final phase. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,600,000 gallons per day. TCEQ received this application on September 19, 2024.

The facility is located approximately 3.5 miles south of the intersection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles of southwest of the Elkins Lake Dam, in Walker County, Texas 77340. The treated effluent is discharged to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed tributary, limited aquatic life use for Persimmon Creek, and high aquatic life use for East Sandy Creek. The designated uses for Segment No. 1012 are primary contact recreation, public water supply, and high aquatic life use. In accordance with 30 Texas Administrative Code §307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in East Sandy Creek, which has been identified as having high aquatic life uses. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.552222,30.645277&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City of Huntsville Service Center, 448 State Highway 75 North, Huntsville, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

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

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.**

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Huntsville at the address stated above or by calling Ms. Stacy Lawler, Wastewater Superintendent, at 936-294-5763.

Issuance Date: September 30, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

ENMIENDA

NUMERO DE PERMISO WQ0010781002

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Huntsville, 1212 Avenue M, Huntsville, Texas 77340, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por una modificación principal y renovación del Permiso del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) No. WQ0010781002 para autorizar el traslado del Punto de Descarga 001 aproximadamente 75 pies al suroeste de la ubicación actual, y la conversión del proceso de tratamiento de lodos activados convencional a reactor discontinuo secuencial (SBR) en la fase final. El permiso actual autoriza la descarga de aguas residuales domésticas tratadas con un caudal promedio anual que no exceda 1,600,000 galones por día. La TCEQ recibió esta solicitud el 19 de septiembre de 2024.

La instalación está ubicada en aproximadamente 3.5 millas al sur de la intersección de la carretera Farm-to-Market 1374 y la Autopista Interestatal 45, y a 1.4 millas al suroeste de la presa Elkins Lake, en el Condado de Walker, Texas 77340. El efluente tratado es descargado a un afluente sin nombre, luego al Persimmon Creek, luego al East Sandy Creek, y finalmente en el Lago Conroeen el Segmento No. 1012 de la Cuenca del Río San Jacinto. Los usos no clasificados de las aguas receptoras son uso mínimo para la vida acuática para el afluente sin nombre, uso mínimo para la vida acuática para Persimmon Creek, y uso acuático elevado para East Sandy Creek. Los usos designados para el Segmento No. 1012 son recreación de contacto primario, suministro público de agua y uso acuático elevado. De acuerdo con el Título 30 del Código Administrativo de Texas §307.5 y los Procedimientos para Implementar los Estándares de Calidad del Agua Superficial de Texas (junio de 2010), se realizó una revisión de antidegradación de las aguas receptoras. Una revisión de antidegradación de Nivel 1 determinó preliminarmente que los usos de calidad de agua existentes no serán afectados por esta acción de permiso. Los criterios numéricos y narrativos para proteger los usos existentes se mantendrán.

Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa de la calidad del agua en East Sandy Creek el cual se ha identificado que tiene para vida acuática de alta calidad. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva. 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 esta solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.552222,30.645277&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que, si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Centro de Servicios de la Ciudad de Huntsville, 448 State Highway 75 North, Huntsville, Texas. La solicitud, incluidas las actualizaciones y los avisos asociados están disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices..

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 CONTENCIOSO. Después de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud sea remitida directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que enviaron comentarios públicos y a aquellas personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia contencioso o reconsiderar la decisión del Director Ejecutivo.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

PARA SOLICITAR UNA AUDIENCIA CONTENCIOSA, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con 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 contenciosa ". Si presenta la petición para una audiencia contenciosa 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 instalación 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.
Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia contenciosa a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

La Comisión sólo puede otorgar una solicitud de una audiencia contenciosa sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no hayan sido retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a los asuntos de hecho en disputa o a cuestiones mixtas de hecho y de derecho relativas a cuestiones relevantes y materiales del agua que se hayan presentado durante el período de comentarios.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia contenciosa oportunamente o una solicitud de reconsideración. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el Director Ejecutivo no emitirá la aprobación final del permiso y enviará la solicitud y la solicitud a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.
LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia contenciosa o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista (s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

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

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

También se puede obtener información adicional de la Ciudad de Huntsville a la dirección indicada arriba o llamando a la Sra. Stacy Lawler, Superintendente de Aguas Residuales al 936-294-5763.

Fecha de emisión: 30 de septiembre de 2025

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 19, 2024

Re: Confirmation of Submission of the Major Amendment with Renewal for Public Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Major Amendment with Renewal for the Public Domestic Wastewater authorization.

ER Account Number: ER107117
Application Reference Number: 675229
Authorization Number: WQ0010781002
Site Name: N B Davidson South WWTP
Regulated Entity: RN101917961 - N B Davidson South Plant
Customer(s): CN600745566 - City of Huntsville

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0010781002

Site Information (Regulated Entity)

What is the name of the site to be authorized?	N B DAVIDSON SOUTH WWTP
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	LOCATED 3.5 MI S OF THE INTERX OF FM 1374 AND IH 45 AND APPRO 1.4 MI SW OF THE ELKINS LAKE DAM S OF THE CITY OF HUNTSVILLE
City	HUNTSVILLE
State	TX
ZIP	77340
County	WALKER
Latitude (N) (##.######)	30.645277
Longitude (W) (-###.######)	-95.552222
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	221320
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN101917961
What is the name of the Regulated Entity (RE)?	N B DAVIDSON SOUTH PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	1212 AVENUE M
City	HUNTSVILLE
State	TX
ZIP	77340
County	WALKER
Latitude (N) (##.######)	30.722256
Longitude (W) (-###.######)	-95.553563
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

City of-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600745566
Type of Customer	Other Government
Full legal name of the applicant:	
Legal Name	City of Huntsville
Texas SOS Filing Number	
Federal Tax ID	174600142
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	84971480
Number of Employees	0-20
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	City of Huntsville
Prefix	MR
First	AARON
Middle	
Last	KULHAVY
Suffix	
Credentials	
Title	CITY MANAGER
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1212 AVENUE M
Routing (such as Mail Code, Dept., or Attn:)	
City	HUNTSVILLE
State	TX
ZIP	77340
Phone (###-###-####)	9362945926
Extension	
Alternate Phone (###-###-####)	

Fax (###-###-####)	
E-mail	akulhavy@huntsvilletx.gov

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600745566, City of Huntsville
Organization Name	CITY OF HUNTSVILLE
Prefix	MR
First	Stacy
Middle	A
Last	Lawler
Suffix	
Credentials	
Title	Wastewater Superintendent
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	448 STATE HIGHWAY 75 N
Routing (such as Mail Code, Dept., or Attn:)	
City	HUNTSVILLE
State	TX
ZIP	77320
Phone (###-###-####)	9362945926
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9362947730
E-mail	wlawler@huntsvilletx.gov

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	City of Huntsville
Prefix	MS
First	Kimberly
Middle	

Last	Kembro
Suffix	
Credentials	PE
Title	Assistant Public Works Director
Enter new address or copy one from list:	Billing Contact
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	448 STATE HIGHWAY 75 N
Routing (such as Mail Code, Dept., or Attn:)	
City	HUNTSVILLE
State	TX
ZIP	77320
Phone (###-###-####)	9362945735
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9362947730
E-mail	kkembro@huntsvilletx.gov

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	Lockwood Andrews and Newnam Inc
Prefix	MR
First	Jordon
Middle	Taylor
Last	Thomas Harris
Suffix	
Credentials	PE
Title	Associate
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 W SAM HOUSTON PKWY S STE 400
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX

ZIP	77042
Phone (###-###-####)	7138210379
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jtharris@lan-inc.com

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	
Organization Name	City of Hunstville
Prefix	MR
First	Gavin
Middle	
Last	Gann
Suffix	
Credentials	
Title	Assistant Wastewater Superintendent
Enter new address or copy one from list:	Billing Contact

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	448 STATE HIGHWAY 75 N
Routing (such as Mail Code, Dept., or Attn:)	
City	HUNTSVILLE
State	TX
ZIP	77320
Phone (###-###-####)	9362945924
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9362945735
E-mail	ggann@huntsvilletx.gov

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	City of Hunstville
3) Prefix	MR
4) First	Brent
5) Middle	
6) Last	Sherrod
7) Suffix	
8) Credentials	PE
9) Title	Public Works Director
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	448 STATE HIGHWAY 75 N
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	HUNTSVILLE
11.4) State	TX
11.5) ZIP	77320
12) Phone (###-###-####)	9362945707
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	bsherrod@huntsvilletx.gov

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	City of Hunstville
3) Prefix	MS
4) First	Kimberly
5) Middle	
6) Last	Kembro
7) Suffix	
8) Credentials	
9) Title	Assistant Public Works Director
Mailing Address	

10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	448 STATE HIGHWAY 75 N
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	HUNTSVILLE
11.4) State	TX
11.5) ZIP	77320
12) Phone (###-###-####)	9362945735
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	kkembro@huntsvilletx.gov

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	City of Huntsville
4) Mailing Address	1212 Avenue M
5) City	Huntsville
6) State	TX
7) Zip Code	77340
8) Phone (###-###-####)	9362945735
9) Extension	
10) Email	kkembro@huntsvilletx.gov
11) What is ownership of the treatment facility?	Public
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	USDA Forest Service Forest Supervisor
14) Organization Name	USFS
15) Mailing Address	701 N First Street
16) City	Lufkin
17) State	TX
18) Zip Code	75901
19) Phone (###-###-####)	9363446205
20) Extension	

21) Email	edwin.d.davis@usda.gov
22) Is the landowner the same person as the facility owner or co-applicant?	No

General Information Renewal-Amendment

1) Current authorization expiration date:	02/17/2027
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Major Amendment with Renewal
4.1) Describe the proposed changes:	Increase in 2-hour peak flow from 4.0 MGD to 6.5 MGD, conversion from CAS process to SBR process
5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	6.5
5.2) Select the applicable fee	>= 1.0 MGD - Major Amendment - $2,050
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0022373
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	No
6.3.1) Provide an accurate description of the point of discharge:	Proposed outfall will be shifted approximately 75 feet southwest. Revised outfall coordinates have provided below.
6.3.2) Provide an accurate description of the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:	An unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin
6.4) City nearest the outfall(s):	Huntsville
6.5) County where the outfalls are located:	WALKER
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Stacy Lawler
3) Credential	
4) Title	Wastewater Superindentent

5) Organization Name	City of Huntsville
6) Mailing Address	448 STATE HIGHWAY 75 N
7) Address Line 2	
8) City	HUNTSVILLE
9) State	TX
10) Zip Code	77320
11) Phone (###-###-####)	9362945926
12) Extension	
13) Fax (###-###-####)	
14) Email	wlawler@huntsvilletx.gov
Contact person to be listed in the Notices	
15) Prefix	
16) First and Last Name	Stacy Lawler
17) Credential	
18) Title	Wastewater Superintendent
19) Organization Name	City of Huntsville
20) Phone (###-###-####)	9362945926
21) Fax (###-###-####)	
22) Email	wlawler@huntsvilletx.org
Bilingual Notice Requirements	
23) 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
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) 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)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	WALKER
2) Public building name	City of Huntsville Service Center
3) Location within the building	Lobby
4) Physical Address of Building	448 State Highway 75 N
5) City	Huntsville

6) Contact Name	Stacy Lawler
7) Phone (###-###-####)	9362942926
8) Extension	
9) Is the location open to the public?	Yes

Lease Agreement or Deed Attachment

1) Attach a lease agreement or deed recorded easement

[File Properties]

File Name	LEASE_Attachment C - Special Use Permit.pdf
Hash	05AEB50D756BC2CC6D3E7B427B4B2D79FC0BEBE34E20AE175CA8A0A60BA76D1F
MIME-Type	application/pdf

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_City of Huntsville - N.B.Davidson WWTP_TCEQ Permit Application_20972 - Plain Language.pdf
Hash	5648A3653612B1EAFCE0661F8C7D2C45FCF9D407A02CE18E9352B883118CC11F
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_NB Davidson WWTP TCEQ Permit Application 20971_REDUCED.pdf
Hash	AA06F8A13CE008CA16C3BE2B4A2EBF7E4715E1B1BEF047FDACC7877C22653C99
MIME-Type	application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.

[File Properties]

File Name	MAP_Attachment F2 - USGS Topographic Map 8.5x11.pdf
Hash	2D9116AA64E040CCB0D5DCA09D5DF9581B957D00EE7C1A426E345794E3390C2F
MIME-Type	application/pdf

2) Public Involvement Plan attachment (TCEQ Form 20960)

[File Properties]

File Name	PIP_pip-form-tceq-20960_R1.pdf
Hash	3027BD7BFB06BD12F2405AFF7A9A6116C2F586A3C611202E81EE6CE9B6E9F8E2
MIME-Type	application/pdf

3) Administrative Report 1.1

[File Properties]

File Name	ARPT_10053_R1.docx
Hash	DFFC45AF51C9F10EDD3BDDE19FB8493A629DCEECB5BB8512DCD3096694D46A2A
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
4.1) I confirm that Technical Report 1.1 is complete and included in the Technical Attachment.	Yes
4.2) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
4.3) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
4.4) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	Yes
4.5) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	Yes
4.6) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
4.7) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

4.8) Technical Attachment

[File Properties]

File Name	TECH_10054 _R1.docx
Hash	02A59A5825EEA5F464133CAC22D3AE3EDC6F6823144314435216D1AE2D6E277C
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

5) Affected Landowners Map

[File Properties]

File Name	LANDMP_Attachment Q - AFFECTED LANDOWNERS MAP.pdf
Hash	F2F1264B683FE801786C9C5AB0E545FC18B38AA0F83BA6C78BE19C7FCBB890C6
MIME-Type	application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name	LANDCRL_AFFECTED LANDOWNERS INFORMATION.docx
Hash	274B8A8F59C060F872A503EA303C93F17F7EDC9EE3D9629171D0DD570EA9EAE3
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

7) Landowner Avery Template

[File Properties]

File Name	LANDAT_AFFECTED LANDOWNERS INFORMATION_Avery Format 1.docx
Hash	B4D420FCBE64D4E735E4E6540A394B3946A835A20CBD138A0248293492F1309D
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

[File Properties]

File Name	LANDAT_AFFECTED LANDOWNERS INFORMATION_Avery Format 2.docx
Hash	FDD1D59A306F28C9D082954B47A5E6481EB41308566B475E2D3AC9FB50D8841E
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

8) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Attachment H - Buffer Zone Map_r1.pdf
Hash	A3D2136D0CCD545D042DE7FAF489CE69C71DDE2BB7136F0AAB206CF863C614AB
MIME-Type	application/pdf

9) Flow Diagram

[File Properties]

File Name	FLDIA_Attachment J - Process Flow Diagram.pdf
Hash	CEAA969B6264BD0E8A325B7AD3BB041D35DEE6C58A291BA0B7A53B2C473AB7F4
MIME-Type	application/pdf

10) Site Drawing

[File Properties]

File Name	SITEDR_Attachment K - Site Drawing.pdf
Hash	8E34B1B68A457F718A2CA24387F94199828C3422DF3DD1FF6C718F4781BE0E3E
MIME-Type	application/pdf

11) Original Photographs

[File Properties]

File Name	ORIGPH_Attachment G - Photos (2).pdf
Hash	8E3E42E2B0F3C0EB612EF3A7EE5D6276C179B9428E59737B097B10BB07436062
MIME-Type	application/pdf

12) Design Calculations

[File Properties]

File Name	DES_CAL_Attachment M - Basis of Design Calculations.pdf
Hash	EBDDE461A9FBB237621595B2C4F5FEF3F99EE8D0C9C580E4C3DDB7727BD15724
MIME-Type	application/pdf

13) Solids Management Plan

[File Properties]

File Name	SMP_Attachmnet O - Sewage sludge solids management plan.pdf
Hash	AFCB0B66830953A42C63C324ECAB2228920B35AA70F52022F5112C530B779CE9
MIME-Type	application/pdf

14) Water Balance

[File Properties]

File Name	WB_ATTACHMENT - R Water Balance.pdf
Hash	4ABF690F97726976A31C3CB084151378911FF01BC231263144EB9E382721CC62
MIME-Type	application/pdf

15) Other Attachments

Certification

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

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

1. I am Kathlie S Jeng-Bulloch, the owner of the STEERS account ER108004.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0010781002.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Kathlie S Jeng-Bulloch OWNER

Customer Number:	CN600745566
Legal Name:	City of Huntsville
Account Number:	ER108004
Signature IP Address:	208.180.1.147
Signature Date:	2024-09-19
Signature Hash:	C1FC7318E27595E959620F4082C029D93D19636481AFB72B638A3C94FE5B02D4
Form Hash Code at time of Signature:	CAB06CF1CA8780102A767C1DFAF5AEF6B4D3BB66005B2901F291901E2B5603F3

Fee Payment

Transaction by:	The application fee payment transaction was made by ER108004/Kathlie S Jeng-Bulloch
Paid by:	The application fee was paid by KATHLIE JENG-BULLOCH
Fee Amount:	$2000.00
Paid Date:	The application fee was paid on 2024-09-19
Transaction/Voucher number:	The transaction number is 582EA000626134 and the voucher number is 722113

Submission

Reference Number:	The application reference number is 675229
Submitted by:	The application was submitted by ER107117/Jordon T Thomas-Harris
Submitted Timestamp:	The application was submitted on 2024-09-19 at 18:07:55 CDT
Submitted From:	The application was submitted from IP address 170.85.98.175
Confirmation Number:	The confirmation number is 564939
Steers Version:	The STEERS version is 6.82

Permit Number:	The permit number is WQ0010781002

Additional Information

Application Creator: This account was created by Jordon T Thomas-Harris

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Huntsville

PERMIT NUMBER (If new, leave blank): WQ00 010781002

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

	Y	N
Administrative Report 1.0	☒	☐
Administrative Report 1.1	☐	☒
SPIF	☒	☐
Core Data Form	☒	☐
Public Involvement Plan Form	☒	☐
Technical Report 1.0	☒	☐
Technical Report 1.1	☒	☐
Worksheet 2.0	☒	☐
Worksheet 2.1	☐	☐
Worksheet 3.0	☐	☒
Worksheet 3.1	☐	☒
Worksheet 3.2	☐	☒
Worksheet 3.3	☐	☒
Worksheet 4.0	☒	☐
Worksheet 5.0	☒	☐
Worksheet 6.0	☒	☐
Worksheet 7.0	☐	☒

	Y	N
Original USGS Map	☒	☐
Affected Landowners Map	☐	☒
Landowner Disk or Labels	☐	☒
Buffer Zone Map	☒	☐
Flow Diagram	☒	☐
Site Drawing	☒	☐
Original Photographs	☒	☐
Design Calculations	☒	☐
Solids Management Plan	☒	☐
Water Balance	☐	☒

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☒	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: Click to enter text.

Check/Money Order Amount: 2,050.00

Name Printed on Check: Texas Commission on Environmental Quality

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

- ☒ TPDES Permit
- ☐ TLAP
- ☐ TPDES Permit with TLAP component
- ☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☐ New
- ☒ Major Amendment *with* Renewal
- ☐ Minor Amendment *with* Renewal
- ☐ Major Amendment *without* Renewal
- ☐ Minor Amendment *without* Renewal
- ☐ Renewal without changes
- ☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: Increase in 2-hour peak flow from 4.0 MGD to 6.5 MGD.

f. For existing permits:

Permit Number: WQ00 10781002

EPA I.D. (TPDES only): TX 0022373

Expiration Date: February 17, 2027

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 26)

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

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

City of Huntsville

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

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

CN: 600745566

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

Prefix: Mr. Last Name, First Name: Aron Kulhavy

Title: AICP Credential: City Manager

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

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

N/A

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the

legal documents forming the entity.)

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

CN: N/A

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

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Ms. Last Name, First Name: Kimberly Kembro

Title: Assistant Public Works Director Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5735 E-mail Address: kkembro@huntsvilletx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Jordon T. Thomas-Harris

Title: Associate Credential: P.E

Organization Name: Lockwood, Andrews and Newnam Inc.

Mailing Address: 3700 W. Sam Houston Parkway South, Suite 400 City, State, Zip Code: 77042

Phone No.: 713-821-0379 E-mail Address: jtthomas-harris@lan-inc.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr. Last Name, First Name: Brent Sherrod

Title: Public Works Director Credential: P.E.

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5707 E-mail Address: bsherrod@huntsvilletx.gov

B. Prefix: Ms. Last Name, First Name: Kimberly Kembro

Title: Assistant Public Works Director Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5735 E-mail Address: kkembro@huntsvilletx.gov

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Stacy Lawler

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5926 E-mail Address: wlawler@huntsvilletx.gov

Section 7. DMR/MER Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Gavin Gann

Title: Assistant Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5924 E-mail Address: ggann@huntsvilletx.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Stacy Lawler

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5926 E-mail Address: wlawler@huntsvilletx.gov

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Stacy Lawler

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5926 E-mail Address: wlawler@huntsvilletx.gov

D. Public Viewing Information

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

Public building name: City of Huntsville Service Center

Location within the building: Lobby

Physical Address of Building: 448 State Highway 75 N

City: Huntsville County: Walker

Contact (Last Name, First Name): Stacy Lawler

Phone No.: 936-294-5926 Ext.: N/A

E. Bilingual Notice Requirements

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

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

   ☒ Yes ☐ No

   If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Click to enter text.

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: B

G. Public Involvement Plan Form

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

Attachment: C

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101917961

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

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

N.B. Davidson Wastewater Treatment Plant

C. Owner of treatment facility: City of Huntsville

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

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

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: USDA Forest Service, Forest Supervisor

Mailing Address: **701 N First Street** City, State, Zip Code: **Lufkin, TX 75901**

Phone No.: **936-344-6205** E-mail Address: **edwin.d.davis@usda.gov**

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

Attachment: D

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: D

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

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

Phone No.: Click to enter text. E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☒ Yes ☐ No

If **no, or a new permit application**, please give an accurate description:

N/A

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☒ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Proposed outfall will be shifted approximately 75 feet southwest. Revised outfall coordinates have provided below.

City nearest the outfall(s): Huntsville

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

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Outfall Latitude: 30.644919˚, Longitude: -95.55293˚

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

N/A

B. City nearest the disposal site: N/A

C. County in which the disposal site is located: N/A

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

N/A

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

Section 12. Miscellaneous Information (Instructions Page 32)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

N/A

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

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

☒ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010781002

Applicant: City of Huntsville

Certification:

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

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

Signatory name (typed or printed): Aron Kulhavy, AICP

Signatory title: City Manager

Signature:_____Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____day of_____, 20_____.

My commission expires on the_____day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

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

B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☐ Four sets of labels

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

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

☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

N/A

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- ☒ At least one original photograph of the new or expanded treatment unit location
- ☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☒ At least one photograph of the existing/proposed effluent disposal site
- ☐ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☐ Ownership
- ☒ Restrictive easement
- ☐ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☒ Yes ☐ No

DOMESTIC 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

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010781002

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: 2,050.00
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: N.B. Davidson Wastewater Treatment Plant

   Physical Address of Project or Site: 1860 Camellia Dr, Huntsville, TX 77340

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): N/A

Driver's License or State Identification Number: N/A

Date of Birth: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A Fax Number: N/A

E-mail Address: N/A

CN: N/A

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

Correct and Current Industrial Wastewater Permit Application Forms ☐ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☐ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

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

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

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

Things to Know:

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

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

Landowners Labels or USB Drive attached ☐ N/A ☐ Yes
(See instructions for landowner requirements)

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

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

City of Huntsville, TX (CN:600745566) operates N.B. Davidson WWTP (RN10191761), a wastewater treatment plant. The facility is located at 1860 Camellia Dr, in Huntsville, Walker County, Texas 77340. The City is requesting an expansion of the existing facility from a 2-hour peak flow of 4.0 MGD to 6.5 MGD. Additionally, the treatment process will be converted from conventional activated sludge (CAS) to a sequencing batch reactor (SBR).

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

AGUAS RESIDUALES DOMESTICAS /**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.

City of Huntsville, TX (CN:600745566) opera N.B. Davidson WWTP RN10191761, un wastewater treatment plnt. La instalación está ubicada en 1860 Camellia Dr,, en Huntsville,, Condado de Walker, Texas 77340. La Ciudad está solicitando una ampliación de las instalaciones existentes, pasando de un caudal máximo de 4.0 MGD a 6.5 MGD. Además, el proceso de tratamiento se cambiará de lodos activados convencionales (CAS) a un reactor de lotes secuenciales (SBR).

INSTRUCTIONS

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

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

Example

Individual Industrial Wastewater Application

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

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

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

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

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

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

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☒ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☐ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

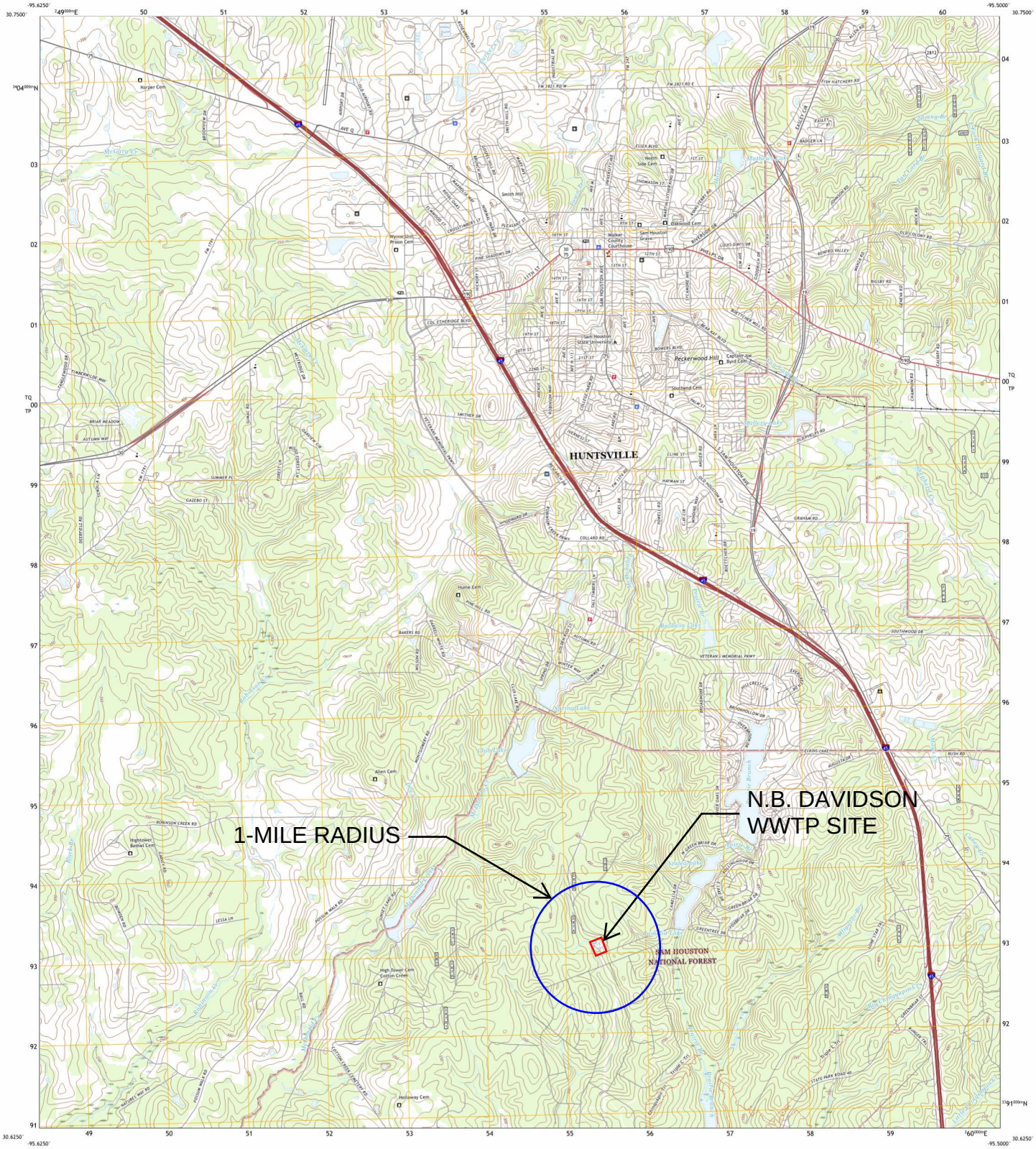
☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

The National Map US Topo

HUNTSVILLE QUADRANGLE
TEXAS - WALKER COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 15R
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015
Roads within US Forest Service Lands.....FSTopo Data with limited Forest Service updates, 2012
Names.....GNIS, 2000 - 2021
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2003
Boundaries.....Multiple sources; see metadata file 2017 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
0°28'
1°19'
23 MILS
44 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
TQ
TP
Grid Zone Designation 15R

SCALE 1:24 000
KILOMETERS
METERS
MILES
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Crabbs Prairie
2 Pine Prairie
3 Riverside
4 Gaillee
5 Phelps
6 San Jacinto
7 Moore Grove
8 New Waverly

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route
FS Primary Route
FS Passenger Route
FS High Clearance Route

Check with local Forest Service unit for current travel conditions and restrictions.

HUNTSVILLE, TX
2022

NSN
NGA REF NO.15 0 3 2 9 6 5 0

Date: 8/23/2024 Time: 5:57:18 PM
N:\128\128-10028-000\9-0-Data-GIS-Modeling\9-01-GIS\2-ArcMapProjects\Working\Huntsville_NB_Davidson_WWTP_LOWNR.mxd

City of Huntsville

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

2925 Briarpark Drive • Houston, TX 77042-3720
T 713.266.6900 • F 713.266.2089
www.lan-inc.com • info@lan-inc.com

ATTACHMENT DAR - 4

AFFECTED LANDOWNERS MAP

DATE: AUGUST 2024

ATTACHMENT Q

AFFECTED LANDOWNERS INFORMATION

APPLICANT: N.B. Davidson WWTP

1. PROPERTY No. 1
   Cotton Creek Cemetery Rd, Huntsville, TX, 77340
   U S FORESTRY
   Unlisted

2. PROPERTY No. 2
   GRANITE RD, Huntsville, TX, 77340
   1 TEXAS GRAND RANCH PROPERTY OWNERS ASSOCIATION
   PO BOX1260
   PAULDEN, AZ, 86334

3. PROPERTY No. 3
   GRANITE RD, Huntsville, TX, 77340
   NAH TAHPLAH D
   PO BOX 311025
   HOUSTON, TX, 77231-3025

4. PROPERTY No. 4
   GRANITE RD, Huntsville, TX, 77340
   ALI AHSAN & HINA
   27215 CHESHIRE EDGE LN
   KATY, TX, 77494-6263

5. PROPERTY No. 5
   GRANITE RD, Huntsville, TX, 77340
   WALKER MARVETTA M
   2003 COVENT GARDEN STA
   HOUSTON, TX, 77045-2533

6. PROPERTY No. 6
   114 AZURITE RD, Huntsville, TX, 77340
   GOMEZ GERMAN
   5930 PEBBLE SPRINGS DR
   HOUSTON, TX, 77066-2313

7. PROPERTY No. 7
   LONESTAR RD, Huntsville, TX, 77340
   LAKEY OWEN THOMAS
   1057 REVEREND B J LEWIS DR
   HOUSTON, TX, 77088-616

8. PROPERTY No.8
   114 AZURITE RD, Huntsville, TX, 77340
   MASON KIRK & DEBORAH
   114 AZURITE RD PMB 182
   HUNTSVILLE, TX, 77340-1428

9. PROPERTY No.9
   LONESTAR RD, Huntsville, TX, 77340
   WATSON LISA & ROY
   113 SUMMIT DR
   CONROE, TX, 77303-1558

10. PROPERTY No.10
    AZURITE RD, Huntsville, TX, 77340
    BRUBECK RICK
    24518 EMERALD POOL FALLS DR
    TOMBALL, TX, 77375-5366

11. PROPERTY No.11
    LONESTAR RD, Huntsville, TX, 77340
    NGUYEN BRIAN & THU THUY
    640 GORDY RD
    BACLIFF, TX, 77518-2150

12. PROPERTY No.12
    AZURITE RD, Huntsville, TX, 77340
    REXROAD JEFFREY PAUL & DANESE B
    301 FALCON LAKE DR
    FRIENDSWOOD, TX, 77546-5465

13. PROPERTY No.13
    LONESTAR RD, Huntsville, TX, 77340
    DAYA WILLIAM BURGOS & MARIEL DIPLAN RODRIGUEZ
    4811 ISLA CANELA LN
    LEAGUE CITY, TX, 77573-6488

14. PROPERTY No.14
    130 AZURITE RD, Huntsville, TX, 77340
    LEISEY JEFFREY DAVID & CHAMROEUN NICOLE
    12306 WESTMERE DR
    HOUSTON, TX, 77077-3924

15. PROPERTY No.15
    LONESTAR RD, Huntsville, TX, 77340

DAYA WILLIAM BURGOS & MARIEL DIPLAN RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY, TX, 77573-6488

16. PROPERTY No.16
    FELDSPAR LANE, Huntsville, TX, 77340
    NGUYEN TRANG V
    7007 PEARL TERRACE LN
    RICHMOND, TX, 77469-1892

17. PROPERTY No.17
    1 FELDSPAR LANE, Huntsville, TX, 77340
    EGEMEARI EMMANUEL OSEIYAW & MIRIAM K
    12702 SPRUCE CIRCLE
    TOMBALL, TX, 77375-2060

18. PROPERTY No.18
    131 FELDSPAR LN, Huntsville, TX, 77340
    SEDILLO GEORGE JR & GUADALUPE MARTINEZ
    131 FELDSPAR, HUNTSVILLE, TX, 77340
    183 WATER ST, WILLIAMSTOWN, MA, 01267-2830

19. PROPERTY No.19
    FELDSPAR LANE, Huntsville, TX, 77340
    I TEXAS GRAND RANCH LLC
    183 WATER ST
    WILLIAMSTOWN, MA, 01267-2830

20. PROPERTY No.20
    FELDSPAR LANE, Huntsville, TX, 77340
    I TEXAS GRAND RANCH LLC
    183 WATER ST
    WILLIAMSTOWN, MA, 01267-2830

21. PROPERTY No.21
    INSCRIPTION LANE, Huntsville, TX, 77340
    QUINONES MIGUEL A & SUSAN
    20727 WINDY BRIAR LN
    SPRING, TX, 77379-8495

22. PROPERTY No.22
    936 LONESTAR RD, Huntsville, TX, 77340
    WARE RONALD DOUGLAS
    21018 GOLDEN SYCAMORE TRL

CYPRESS, TX, 77433

23. PROPERTY No.23
    205 INSCRIPTION LANE, Huntsville, TX, 77340
    TEMPLETON JOSHUA WELLINGTON & AMELIA
    PO BOX 10186
    HUNTSVILLE, TX, 77340

24. PROPERTY No.24
    LONESTAR RD, Huntsville, TX, 77340
    STEES PETER E & LARISA
    28330 SHINING CREEK LN
    SPRING, TX, 77386-1868

25. PROPERTY No.25
    195 INSCRIPTION LANE, Huntsville, TX, 77340
    WARE MARK JAMES & SUSAN YVETTE
    1206 GLOUCHESTER LN
    HOUSTON, TX, 77073-1312

26. PROPERTY No. 26
    928 LONESTAR RD, Huntsville, TX, 77340
    SCALES STEVEN L & JULIE ANN
    928 LONESTAR RD
    HUNTSVILLE, TX, 77340-1068

27. PROPERTY No. 27
    Inscription Ln, Huntsville, TX, 77340
    NADDY RICHARD IV & ANGELA
    P O BOX 9495
    Huntsville, TX, 77340

28. PROPERTY No. 28
    LONESTAR RD, Huntsville, TX, 77340
    BENITEZ FLOR DEMARIA
    4125 AVE Q
    GALVESTON, TX, 77550-6910

29. PROPERTY No. 29
    INSCRIPTION LANE, Huntsville, TX, 77340
    WITHEREL MATTHEW LOUIS & BETH
    2007 WILLOWLAKE DR
    HOUSTON, TX, 77077

30. PROPERTY No. 30
    LONESTAR RD, Huntsville, TX, 77340
    CARDONA JORGE ARTURO & VANESA M
    38549 WINDING WALK DR
    MURRIETA, CA, 92563-0805

31. PROPERTY No. 31
    INSCRIPTION LANE, Huntsville, TX, 77340
    DE FELICE COREY & ITZIAR IRIBERRI
    5506 POINTED LEAF DR
    MISSOURI CITY, TX, 77459-1686

32. PROPERTY No. 32
    LONESTAR RD, Huntsville, TX, 77340
    DRAB MICHAEL S & MICHELLE
    5007 FOREST HURST GLEN
    SPRING, TX, 77373-2597

33. PROPERTY No. 33
    157 INSCRIPTION LANE, Huntsville, TX, 77340
    KUYKENDALL JEFF B & CINDY L
    2511 RAINTREE
    COLLEGE STATION, TX, 77845-4125

34. PROPERTY No. 34
    LONESTAR RD, Huntsville, TX, 77340
    ARELLANO FERNANDO JAIMES
    5403 BOURGEOIS RD
    HOUSTON, TX, 77066-3311

35. PROPERTY No. 35
    INSCRIPTION LANE, Huntsville, TX, 77340
    NINAN MATTHEW V JR & SUMA M
    10418 MONTICELLO HILL DR
    KATY, TX, 77494-3485

36. PROPERTY No. 36
    900 LONESTAR RD, Huntsville, TX, 77340
    EBANKS FAMILY LIVING TRUST
    2430 RIVERWAY DR UNIT 509
    CONROE, TX, 77304

37. PROPERTY No. 37
    INSCRIPTION LANE, Huntsville, TX, 77340

NINAN MATTHEW V JR & SUMA M
10418 MONTICELLO HILL DR
KATY, TX, 77494-3485

38. PROPERTY No. 38
896 LONESTAR RD, Huntsville, TX, 77340
GOHEEN LLOYD EUGENE & DIANE L
896 LONESTAR RD, HUNTSVILLE, TX, 77340-1427

39. PROPERTY No. 39
INSCRIPTION LANE, Huntsville, TX, 77340
SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

40. PROPERTY No. 40
LONESTAR RD, Huntsville, TX, 77340
TREND VIEW ENTERPRISES LLC
635 OLD COLONY DR
RICHMOND, TX, 77406-2120

41. PROPERTY No. 41
INSCRIPTION LANE, Huntsville, TX, 77340
SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

42. PROPERTY No. 42
LONESTAR RD, Huntsville, TX, 77340
CASTANEDA ANDREW
15126 BOTANICAL GARDEN DR
CONROE, TX, 77302

43. PROPERTY No. 43
INSCRIPTION LANE, Huntsville, TX, 77340
FEREBEE WILLIAM C & DI ANNA M
1780 HUGHES LANDING
THE WOODLANDS, TX, 77380-4021

44. PROPERTY No. 44
LONESTAR RD, Huntsville, TX, 77340
MIDLAND TRUST COMPANY
10121 VALLEY FORGE DR
HOUSTON, TX, 77042-2037

45. PROPERTY No. 45
    INSCRIPTION LANE, Huntsville, TX, 77340
    NGUYEN CHAU & MAI
    29538 MONONA TERRACE CT
    SPRING, TX, 77386-4323

46. PROPERTY No. 46
    LONESTAR RD, Huntsville, TX, 77340
    HENEGAR RICHARD R & ELIZABETH SUSAN PETERSON
    16231 HICKORY POINT RD
    HOUSTON, TX, 77095-4011

47. PROPERTY No. 47
    INSCRIPTION LANE, Huntsville, TX, 77340
    THURMAN THOMAS G & MARIA O
    631 RINGWOOD ST
    SPRING, TX, 77373-5528

48. PROPERTY No. 48
    LONESTAR RD, Huntsville, TX, 77340
    GORDON SHENEKA ATRAMEASE & DEVIN R
    2728 MERLIN LN
    PEARLAND, TX, 77581-3557

49. PROPERTY No. 49
    290 RIM ROCK RD, Huntsville, TX, 77340
    DECESARE JUDY & JOHN
    290 RIM ROCK RD
    HUNTSVILLE, TX, 77340-1211

50. PROPERTY No. 50
    RIM ROCK RD, Huntsville, TX, 77340
    FESTE ANDREW & MARIAN
    231 CASTLEWOOD DR
    SPRING, TX, 77386-1164

51. PROPERTY No. 51
    RIM ROCK RD, Huntsville, TX, 77340
    BAUTISTA JOSE & ANA PACHECO
    11405 SAILWING CREEK CT
    PEARLAND, TX, 77584-8411

52. PROPERTY No. 52
    RIM ROCK ROAD, Huntsville, TX, 77340

SHAPLEY BRIAN J & WINDI A
3522 111TH DR NE
LAKE STEVENS, WA, 98258-8157

U S FORESTRY
Unlisted

1 TEXAS GRAND RANCH PROPERTY
OWNERS ASSOCIATION
PO BOX 1260
PAULDEN, AZ, 86334

NAH TAHPLAH D
PO BOX 311025
HOUSTON, TX, 77231-3025

ALI AHSAN & HINA
27215 CHESHIRE EDGE LN
KATY, TX, 77494-6263

WALKER MARVETTA M
2003 COVENT GARDEN STA
HOUSTON, TX, 77045-2533

GOMEZ GERMAN
5930 PEBBLE SPRINGS DR
HOUSTON, TX, 77066-2313

LAKEY OWEN THOMAS
1057 REVEREND B J LEWIS DR
HOUSTON, TX, 77088-616

MASON KIRK & DEBORAH
114 AZURITE RD PMB 182
HUNTSVILLE, TX, 77340-1428

WATSON LISA & ROY
113 SUMMIT DR
CONROE, TX, 77303-1558

BRUBECK RICK
24518 EMERALD POOL FALLS DR
TOMBALL, TX, 77375-5366

NGUYEN BRIAN & THU THUY
640 GORDY RD
BACLIFF, TX, 77518-2150

REXROAD JEFFREY PAUL &
DANESE B
301 FALCON LAKE DR
FRIENDSWOOD, TX, 77546-5465

DAYA WILLIAM BURGOS &
MARIEL DIPLAN RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY, TX, 77573-6488

LEISEY JEFFREY DAVID &
CHAMROEUN NICOLE
12306 WESTMERE DR
HOUSTON, TX, 77077-3924

DAYA WILLIAM BURGOS &
MARIEL DIPLAN RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY, TX, 77573-6488

NGUYEN TRANG V
7007 PEARL TERRACE LN
RICHMOND, TX, 77469-1892

EGEMEARI EMMANUEL
OSEIYAW & MIRIAM K
12702 SPRUCE CIRCLE
TOMBALL, TX, 77375-2060

SEDILLO GEORGE JR &
GUADALUPE MARTINEZ
131 FELDSPAR
HUNTSVILLE, TX, 77340

I TEXAS GRAND RANCH LLC
183 WATER ST
WILLIAMSTOWN, MA, 01267-2830

I TEXAS GRAND RANCH LLC
183 WATER ST
WILLIAMSTOWN, MA, 01267-
2830

QUINONES MIGUEL A & SUSAN
20727 WINDY BRIAR LN
SPRING, TX, 77379-8495

WARE RONALD DOUGLAS
21018 GOLDEN SYCAMORE TRL
CYPRESS, TX, 77433

TEMPLETON JOSHUA
WELLINGTON & AMELIA
PO BOX 10186
HUNTSVILLE, TX, 77340

STEES PETER E & LARISA
28330 SHINING CREEK LN
SPRING, TX, 77386-1868

WARE MARK JAMES & SUSAN
YVETTE
1206 GLOUCHESTER LN
HOUSTON, TX, 77073-1312

SCALES STEVEN L & JULIE ANN
928 LONESTAR RD
HUNTSVILLE, TX, 77340-1068

NADDY RICHARD IV & ANGELA
PO BOX 9495
HUNTSVILLE, TX, 77340

BENITEZ FLOR DEMARIA
4125 AVE Q
GALVESTON, TX, 77550-6910

WITHEREL MATTHEW LOUIS &
BETH
2007 WILLOWLAKE DR
HOUSTON, TX, 77077

CARDONA JORGE ARTURO &
VANESA M
38549 WINDING WALK DR
MURRIETA, CA, 92563-0805

DE FELICE COREY &
ITZIAR IRIBERRI
5506 POINTED LEAF DR
MISSOURI CITY, TX, 77459-1686

DRAB MICHAEL S &
MICHELLE
5007 FOREST HURST GLEN
SPRING, TX, 77373-2597

KUYKENDALL JEFF B &
CINDY L
2511 RAINTREE
COLLEGE STATION, TX,
77845-4125

ARELLANO FERNANDO
JAIMES
5403 BOURGEOIS RD
HOUSTON, TX, 77066-3311

NINAN MATTHEW V JR &
SUMA M
10418 MONTICELLO HILL DR
KATY, TX, 77494-3485

EBANKS FAMILY LIVING
TRUST
2430 RIVERWAY DR UNIT 509
CONROE, TX, 77304

NINAN MATTHEW V JR &
SUMA M
10418 MONTICELLO HILL DR
KATY, TX, 77494-3485

GOHEEN LLOYD EUGENE &
DIANE L
896 LONESTAR RD,
HUNTSVILLE, TX, 77340-1427

SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

TREND VIEW ENTERPRISES
LLC
635 OLD COLONY DR
RICHMOND, TX, 77406-2120

SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

CASTANEDA ANDREW
15126 BOTANICAL GARDEN
DR
CONROE, TX, 77302

FEREBEE WILLIAM C & DI ANNA
M
1780 HUGHES LANDING
THE WOODLANDS, TX, 77380-4021

MIDLAND TRUST COMPANY
10121 VALLEY FORGE DR
HOUSTON, TX, 77042-2037

NGUYEN CHAU & MAI
29538 MONONA TERRACE CT
SPRING, TX, 77386-4323

HENEGAR RICHARD R &
ELIZABETH SUSAN PETERSON
16231 HICKORY POINT RD
HOUSTON, TX, 77095-4011

THURMAN THOMAS G &
MARIA O
631 RINGWOOD ST
SPRING, TX, 77373-5528

GORDON SHENEKA
ATRAMEASE & DEVIN R
2728 MERLIN LN
PEARLAND, TX, 77581-3557

DECESARE JUDY & JOHN
290 RIM ROCK RD
HUNTSVILLE, TX, 77340-1211

FESTE ANDREW & MARIAN
231 CASTLEWOOD DR
SPRING, TX, 77386-1164

BAUTISTA JOSE & ANA
PACHECO
11405 SAILWING CREEK CT
PEARLAND, TX, 77584-8411

SHAPLEY BRIAN J & WINDI A
3522 111TH DR NE
LAKE STEVENS, WA, 98258-8157

Proposed Treatment Location

Plant Outfall

Plant Outfall

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Huntsville

   Permit No. WQ00 10781002 EPA ID No. TX 0022373

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

   Approximately 1.4 miles southwest of the Elkins Lake Dam and 3.5 miles south of the intersection of Farm-to-MarketRoad 1374 and Interstate Highway 45, south of the City of Huntsville in Walker County, Texas.

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

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

First and Last Name: Kimberly Kembro

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

Title: Assistant Public Works Director

Mailing Address: 448 State Highway 75 N

City, State, Zip Code: Huntsville, TX 77340

Phone No.: 9362945735 Ext.: N/A Fax No.: N/A

E-mail Address: kkembro@huntsvilletx.gov

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

   United States Department of Agriculture Forest Service

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

   To an unnamed tributary; thence to Persimmon Creek; thence to East Sandy Creek; thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

   N/A

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

   Existing disturbances and land use are typical for a wastewater treatment plant of this size.

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

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

   1971, 1982, 1994

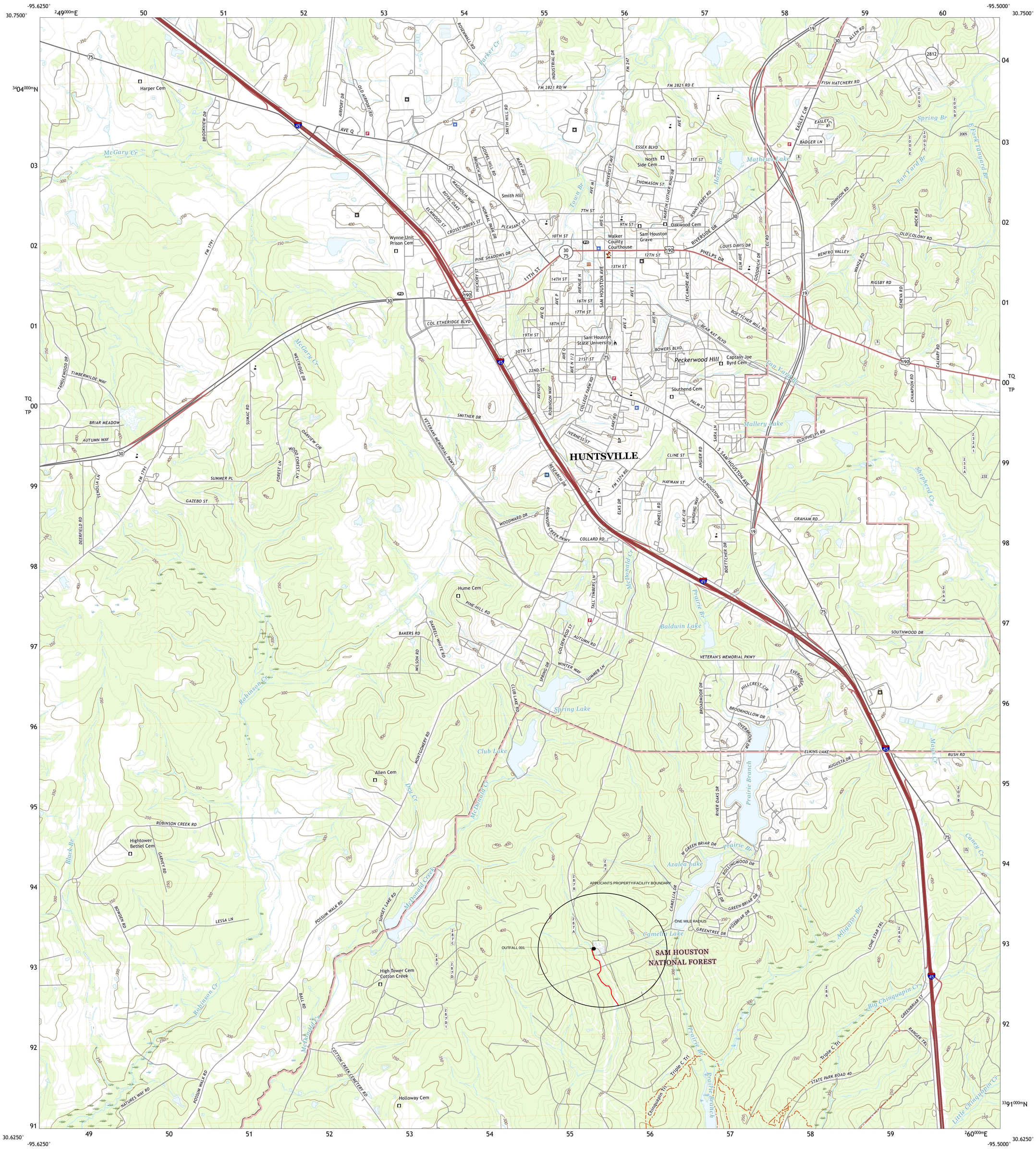
4. Provide a brief history of the property, and name of the architect/builder, if known.

   Existing property was originally developed as a wastewater treatment plant by City of Huntsville.

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

The National Map US Topo

HUNTSVILLE QUADRANGLE
TEXAS - WALKER COUNTY
7.5-MINUTE SERIES


HUNTSVILLE
SAM HOUSTON NATIONAL FOREST
APPLICANTS PROPERTY/FACILITY BOUNDARY
ONE MILE RADIUS
OUTFALL 001
Sam Houston State University
Walker County Courthouse
Sam Houston Grave
Oakwood Cem
North Side Cem
Southend Cem
Peckerwood Hill
Captain Joe Byrd Cem
Wynne Unit Prison Cem
Harper Cem
Hume Cem
Allen Cem
Hightower Bethel Cem
High Tower Cem Cotton Creek
Holloway Cem
Smith Hill
Mathews Lake
Mallery Lake
Baldwin Lake
Spring Lake
Club Lake
Azalea Lake
Camelia Lake
Prairie Branch
Triple C Trl
STATE PARK ROAD 40
Big Chinquapin Cr
Little Chinquapin Cr
McGary Cr
Robinson Cr
McDonald Cr
Parker Cr
Town Br
Horse Br
Spring Br
Fan Yard Br
E Fork Tanyard Br
Shepherd Cr
Caney Cr
Alligator Br
Black Br
Drill Cr
Mars Cr
AVE Q
FM 1791
FM 2821 RD W
FM 2821 RD E
FM 247
FM 1374 RD
SAM HOUSTON AVE
S SAM HOUSTON AVE
COL ETHERIDGE BLVD
VETERANS MEMORIAL PKWY
ROBINSON CREEK RD
RIVERSIDE DR
PHELPS DR
OLD PHELPS RD
FISH HATCHERY RD
ALLEN RD
EASLEY CIR
BADGER LN
JOHNSON RD
OLD COLONY RD
RENFRO VALLEY
RIGSBY RD
GENEVA RD
CALVARY RD
CHAMPION RD
MOCK RD
WAHLA RD
BOETTCHER MILL RD
BEAR KAT BLVD
BOWERS BLVD
GRAHAM RD
SOUTHWOOD DR
ELKINS LAKE
RUSH RD
AUGUSTA DR
W GREEN BRIAR DR
GREEN BRIAR DR
GREENTREE DR
ROLLINGWOOD DR
E LAKE DR
CAMELLIA DR
FOXBRIAR DR
LONE STAR TRL
GREENBRIAR ST
RANGER TRL
BROOKHOLLOW DR
HILLCREST CIR
EVERGREEN DR
BROADMOOR DR
RIVER OAKS DR
OXFORD DR
SUMMER PL
GAZEBO ST
BRIAR MEADOW
AUTUMN WAY
TIMBERWILDE WAY
TANGLEWOOD DR
SUMAC RD
OAKVIEW CIR
WOOD FOREST LN
FOREST LN
VENOLIA LN
DEERFIELD RD
WESTRIDGE DR
SMITHER DR
WOODWARD DR
COLLARD RD
BEECHCREEK DR
ROBINSON CREEK PKWY
TALL TIMBERS LN
PINE HILL RD
BAKERS RD
DARRELL WHITE RD
WILSON RD
MONTGOMERY RD
CLUB LAKE RD
SPRING DR
WINTER WAY
AUTUMN RD
SUMMER LN
GARVEY RD
BAYDEN RD
LESSA LN
POSSUM WALK RD
SUNSET LAKE RD
BALL RD
COTTON CREEK CEMETERY RD
NATURES WAY RD
ELKS DR
POWELL RD
CLARK CIR
WINDING WAY
ANGIER RD
HAYMAN ST
CLINE ST
PALM ST
SARA LN
OLD HOUSTON RD
BOETTCHER DR
ESSEX BLVD
THOMASON ST
MARTIN LUTHER KING DR
RYANS FERRY RD
ROSENWALD RD
INDUSTRIAL DR
SMITH HILL RD
GOSPEL HILL RD
BRINCH AVE
MAGNOLIA WAY
ROYAL OAKS
ELMWOOD ST
CROSSTIMBERS ST
NORMAL PARK DR
PLEASANT ST
PINE SHADOWS DR
HICKORY ST
MARY AVE
BROOKVIEW DR
AIRPORT DR
OLD AIRPORT RD
7TH ST
9TH ST
10TH ST
12TH ST
13TH ST
14TH ST
16TH ST
17TH ST
18TH ST
19TH ST
20TH ST
21ST ST
22ND ST
11TH ST
1ST ST
LOUIS DAVIS DR
ELM AVE
GOODRICH DR
SYCAMORE AVE
AVENUE N
AVENUE S
AVE P
AVE Q
AVE N 1/2
AVE O
AVE J
AVE I
AVE H
AVE L
AVE M
AVE F
COLLEGE FARM RD
LAKE RD
ROBINSON WAY
TELRD
EL RD
CHAMPION RD
2812
2005
2005A
2005B
2005C
2005D
2005E
2005F
232
232A
232A1
2864
2866
2868
2871
2871A
2871C
2871D
2871D1
2872
2872A
2872B
2872C
2872D
2872E
2872F
2872G
2872H
2872J
2872K
2872L
2872M
2872N
2872P
2872Q
2872R
2872S
2872T
2872U
2872V
2872W
2872X
2872Y
2872Z
2872AA
2872AB
2872AC
2872AD
2872AE
2872AF
2872AG
2872AH
2872AJ
2872AK
2872AL
2872AM
2872AN
2872AP
2872AQ
2872AR
2872AS
2872AT
2872AU
2872AV
2872AW
2872AX
2872AY
2872AZ
2872BA
2872BB
2872BC
2872BD
2872BE
2872BF
2872BG
2872BH
2872BJ
2872BK
2872BL
2872BM
2872BN
2872BP
2872BQ
2872BR
2872BS
2872BT
2872BU
2872BV
2872BW
2872BX
2872BY
2872BZ
2872CA
2872CB
2872CC
2872CD
2872CE
2872CF
2872CG
2872CH
2872CJ
2872CK
2872CL
2872CM
2872CN
2872CP
2872CQ
2872CR
2872CS
2872CT
2872CU
2872CV
2872CW
2872CX
2872CY
2872CZ
2872DA
2872DB
2872DC
2872DD
2872DE
2872DF
2872DG
2872DH
2872DJ
2872DK
2872DL
2872DM
2872DN
2872DP
2872DQ
2872DR
2872DS
2872DT
2872DU
2872DV
2872DW
2872DX
2872DY
2872DZ
2872EA
2872EB
2872EC
2872ED
2872EE
2872EF
2872EG
2872EH
2872EJ
2872EK
2872EL
2872EM
2872EN
2872EP
2872EQ
2872ER
2872ES
2872ET
2872EU
2872EV
2872EW
2872EX
2872EY
2872EZ
2872FA
2872FB
2872FC
2872FD
2872FE
2872FF
2872FG
2872FH
2872FJ
2872FK
2872FL
2872FM
2872FN
2872FP
2872FQ
2872FR
2872FS
2872FT
2872FU
2872FV
2872FW
2872FX
2872FY
2872FZ
2872GA
2872GB
2872GC
2872GD
2872GE
2872GF
2872GG
2872GH
2872GJ
2872GK
2872GL
2872GM
2872GN
2872GP
2872GQ
2872GR
2872GS
2872GT
2872GU
2872GV
2872GW
2872GX
2872GY
2872GZ
2872HA
2872HB
2872HC
2872HD
2872HE
2872HF
2872HG
2872HH
2872HJ
2872HK
2872HL
2872HM
2872HN
2872HP
2872HQ
2872HR
2872HS
2872HT
2872HU
2872HV
2872HW
2872HX
2872HY
2872HZ
2872JA
2872JB
2872JC
2872JD
2872JE
2872JF
2872JG
2872JH
2872JJ
2872JK
2872JL
2872JM
2872JN
2872JP
2872JQ
2872JR
2872JS
2872JT
2872JU
2872JV
2872JW
2872JX
2872JY
2872JZ
2872KA
2872KB
2872KC
2872KD
2872KE
2872KF
2872KG
2872KH
2872KJ
2872KK
2872KL
2872KM
2872KN
2872KP
2872KQ
2872KR
2872KS
2872KT
2872KU
2872KV
2872KW
2872KX
2872KY
2872KZ
2872LA
2872LB
2872LC
2872LD
2872LE
2872LF
2872LG
2872LH
2872LJ
2872LK
2872LL
2872LM
2872LN
2872LP
2872LQ
2872LR
2872LS
2872LT
2872LU
2872LV
2872LW
2872LX
2872LY
2872LZ
2872MA
2872MB
2872MC
2872MD
2872ME
2872MF
2872MG
2872MH
2872MJ
2872MK
2872ML
2872MM
2872MN
2872MP
2872MQ
2872MR
2872MS
2872MT
2872MU
2872MV
2872MW
2872MX
2872MY
2872MZ
2872NA
2872NB
2872NC
2872ND
2872NE
2872NF
2872NG
2872NH
2872NJ
2872NK
2872NL
2872NM
2872NN
2872NP
2872NQ
2872NR
2872NS
2872NT
2872NU
2872NV
2872NW
2872NX
2872NY
2872NZ
2872PA
2872PB
2872PC
2872PD
2872PE
2872PF
2872PG
2872PH
2872PJ
2872PK
2872PL
2872PM
2872PN
2872PP
2872PQ
2872PR
2872PS
2872PT
2872PU
2872PV
2872PW
2872PX
2872PY
2872PZ
2872QA
2872QB
2872QC
2872QD
2872QE
2872QF
2872QG
2872QH
2872QJ
2872QK
2872QL
2872QM
2872QN
2872QP
2872QQ
2872QR
2872QS
2872QT
2872QU
2872QV
2872QW
2872QX
2872QY
2872QZ
2872RA
2872RB
2872RC
2872RD
2872RE
2872RF
2872RG
2872RH
2872RJ
2872RK
2872RL
2872RM
2872RN
2872RP
2872RQ
2872RR
2872RS
2872RT
2872RU
2872RV
2872RW
2872RX
2872RY
2872RZ
2872SA
2872SB
2872SC
2872SD
2872SE
2872SF
2872SG
2872SH
2872SJ
2872SK
2872SL
2872SM
2872SN
2872SP
2872SQ
2872SR
2872SS
2872ST
2872SU
2872SV
2872SW
2872SX
2872SY
2872SZ
2872TA
2872TB
2872TC
2872TD
2872TE
2872TF
2872TG
2872TH
2872TJ
2872TK
2872TL
2872TM
2872TN
2872TP
2872TQ
2872TR
2872TS
2872TT
2872TU
2872TV
2872TW
2872TX
2872TY
2872TZ
2872UA
2872UB
2872UC
2872UD
2872UE
2872UF
2872UG
2872UH
2872UJ
2872UK
2872UL
2872UM
2872UN
2872UP
2872UQ
2872UR
2872US
2872UT
2872UU
2872UV
2872UW
2872UX
2872UY
2872UZ
2872VA
2872VB
2872VC
2872VD
2872VE
2872VF
2872VG
2872VH
2872VJ
2872VK
2872VL
2872VM
2872VN
2872VP
2872VQ
2872VR
2872VS
2872VT
2872VU
2872VV
2872VW
2872VX
2872VY
2872VZ
2872WA
2872WB
2872WC
2872WD
2872WE
2872WF
2872WG
2872WH
2872WJ
2872WK
2872WL
2872WM
2872WN
2872WP
2872WQ
2872WR
2872WS
2872WT
2872WU
2872WV
2872WW
2872WX
2872WY
2872WZ
2872XA
2872XB
2872XC
2872XD
2872XE
2872XF
2872XG
2872XH
2872XJ
2872XK
2872XL
2872XM
2872XN
2872XP
2872XQ
2872XR
2872XS
2872XT
2872XU
2872XV
2872XW
2872XX
2872XY
2872XZ
2872YA
2872YB
2872YC
2872YD
2872YE
2872YF
2872YG
2872YH
2872YJ
2872YK
2872YL
2872YM
2872YN
2872YP
2872YQ
2872YR
2872YS
2872YT
2872YU
2872YV
2872YW
2872YX
2872YY
2872YZ
2872ZA
2872ZB
2872ZC
2872ZD
2872ZE
2872ZF
2872ZG
2872ZH
2872ZJ
2872ZK
2872ZL
2872ZM
2872ZN
2872ZP
2872ZQ
2872ZR
2872ZS
2872ZT
2872ZU
2872ZV
2872ZW
2872ZX
2872ZY
2872ZZ
2873
2873A
2873B
2873C
2873D
2873E
2873F
2873G
2873H
2873J
2873K
2873L
2873M
2873N
2873P
2873Q
2873R
2873S
2873T
2873U
2873V
2873W
2873X
2873Y
2873Z
2874
2874A
2874B
2874C
2874D
2874E
2874F
2874G
2874H
2874J
2874K
2874L
2874M
2874N
2874P
2874Q
2874R
2874S
2874T
2874U
2874V
2874W
2874X
2874Y
2874Z
2875
2875A
2875B
2875C
2875D
2875E
2875F
2875G
2875H
2875J
2875K
2875L
2875M
2875N
2875P
2875Q
2875R
2875S
2875T
2875U
2875V
2875W
2875X
2875Y
2875Z

SLUDGE DRYING BEDS

ADMINISTRATION BUILDING

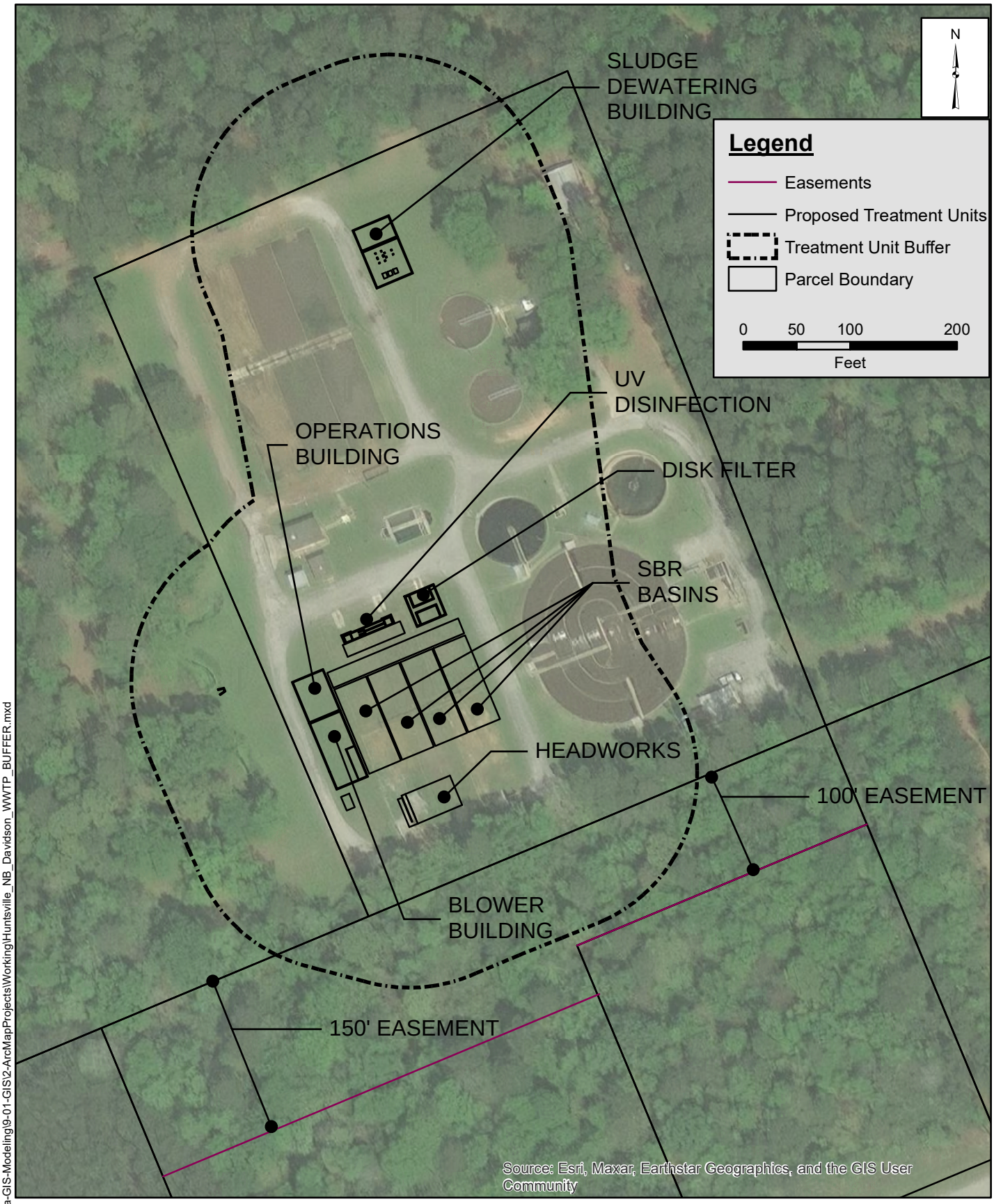
Plant Outfall

Clarifier 1

Plant Drain LS 1

AERATION BASIN

CHLORINE CONTACT BASIN



Date: 8/23/2024 Time: 5:12:08 PM
N:\128\128-10028-000\9-0-Data-GIS-Modeling\9-01-GIS\2-ArcMapProjects\Working\Huntsville_NB_Davidson_WWTP_BUFFER.mxd

City of Huntsville

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

3700 West Sam Houston Parkway South, Suite 400
T 713.266.6900 • F 713.266.2089
www.lan-inc.com • info@lan-inc.com

ATTACHMENT DAR - 4

BUFFER ZONE MAP

DATE: AUGUST 2024

EXHIBIT 2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 1.6

2-Hr Peak Flow (MGD): 4.0

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 1.6

2-Hr Peak Flow (MGD): 6.5

Estimated construction start date: October 2025

Estimated waste disposal start date: October 2027

D. Current Operating Phase

Provide the startup date of the facility: September 1974

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided**.

The plant receives flow via an 18-inch forcemain from the Elkins Lake Dam lift station, which is pumped to the headworks. The headworks includes two 1/8" inch mechanical fine screens, a 1/4" manual bar screen, and two hydraulically induced vortex grit units. Flow is then conveyed to the four basin SBR unit for the secondary treatment. Flow is then conveyed to the disk filters, then UV disinfection units prior to metering and outfall. The flow discharges into an unnamed tributary which eventually leads to the San Jacinto River Basin. Activated Sludge remains in while the waste sludge gets dewatered in a volute press and gets shipped for offsite disposal.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Drum Screen	2	7.9'x 1.3'
Grit Removal	2	16.5' x 5.0'
SBR Basin	4	85' x 32' x 23'
Disk Filter	2	23'-6" x 11' x 10'
UV Disinfection Unit	1	33'-8" x 5' x 6'
Aerobic Digester	2	50' Diameter x 15' Depth
Volute Press	2	7 'x 1.85'

C. Process Flow Diagram

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

Attachment: J

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: 30.644919°
- Longitude: -95.55293°

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or

disposal site.

Attachment: K

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

The N.B. Davidson Wastewater Service Basin includes Huntsville's southern and southeastern sectors, including Elkins Lake.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
N.B. Davidson WWTP	City of Huntsville	Publicly Owned	5,665
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

After installation and commissioning of proposed treatment unit, existing units will be decommissioned. Closure plans to be submitted during final design.
Existing units to be decommissioned include: Headworks, Aeration basins, Clarifiers, Chlorination basin, Dechlorination basin and Sludge drying beds.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☐ Yes ☒ No

If yes, provide the date(s) of approval for each phase: N/A

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☐ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

4. ***Grease and decanted liquid disposal***

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

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

N/A

E. Stormwater management

1. ***Applicability***

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. ***MSGP coverage***

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

☒ Yes ☐ No

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

TXR05 T743 or TXRNE N/A

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

☐ Yes ☐ No

3. ***Conditional exclusion***

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

☐ Yes ☐ No

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

N/A

4. ***Existing coverage in individual permit***

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

☐ Yes ☐ No

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

N/A

5. ***Zero stormwater discharge***

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

☐ Yes ☐ No

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

N/A

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

6. ***Request for coverage in individual permit***

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

☐ Yes ☐ No

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

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

☐ Yes ☒ No

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

N/A

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2		1	8-pt Composite	5-28-24/18:00
Total Suspended Solids, mg/l	9.0		1	8-pt Composite	5-28-24/18:00
Ammonia Nitrogen, mg/l	<0.20		1	8-pt Composite	5-28-24/18:00
Nitrate Nitrogen, mg/l	10.6		1	1-pt Grab	8-9-24/09:21
Total Kjeldahl Nitrogen, mg/l	1.6689		1	24-pt composite	6-17-27/08:00
Sulfate, mg/l	34.6		1	24-pt composite	6-17-27/08:00
Chloride, mg/l	96.1		1	24-pt composite	6-17-27/08:00
Total Phosphorus, mg/l			1	24-pt composite	6-17-27/08:00
pH, standard units	6.83		1	Grab	5-28-24/18:00
Dissolved Oxygen*, mg/l	7.14		1	Grab	5-28-24/18:00
Chlorine Residual, mg/l	2.70		1	Grab	5-28-24/09:00
E.coli (CFU/100ml) freshwater	2.0		1	Grab	5-28-24/07:54
Entercocci (CFU/100ml) saltwater	NA				
Total Dissolved Solids, mg/l	472.0		1	24-pt composite	6-17-27/08:00
Electrical Conductivity, µmohs/cm, †	NA				
Oil & Grease, mg/l	<2.78		1	Grab	6-17-24/08:46
Alkalinity ($CaCO_3$)*, mg/l	84.1		1	24-pt composite	6-17-27/08:00

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Gavin Gann

Facility Operator's License Classification and Level: WW Treatment Operator B

Facility Operator's License Number: WW0046156

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation

☐ Gamma Ray Irradiation

☐ Pasteurization

☐ Preliminary Operation (e.g. grinding, de-gritting, blending)

☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: N/A

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Preparer	Bulk	1.25	Class B: PSRP Aerobic Digestion	Option 4: SOUR <=1.5 mg 02/hr/g total solids at 20C (<2% solids)
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): N/A

D. Disposal site

Disposal site name: Security Recycling and Disposal Facility

TCEQ permit or registration number: 1752B

County where disposal site is located: Montgomery County

E. Transportation method

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

Name of the hauler: City of Huntsville Solid Waste Department

Hauler registration number: 22509

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☐ solid ☒

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: N/A

- USDA Natural Resources Conservation Service Soil Map:

Attachment: N/A

- Federal Emergency Management Map:

  Attachment: N/A

- Site map:

  Attachment: N/A

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☒ None of the above

Attachment: N/A

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

N/A

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

N/A

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

N/A

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

  Attachment: N/A
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: N/A

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: N/A

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☒ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: N/A

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Aron Kulhavy, AICP

Title: City Manager

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

The 2016 Water and Wastewater Condition and Capacity Assessment Studies (2016 Masterplan), produced by Freese & Nicholes, Inc. (FNI) recommends for the NB Davidson WWTP to expand its capacity to 6.5 MGD. NB Davison watershed experiences sanitary sewer overflows during heavy rainfall and flooding, causing the headworks of the N.B. Davidson WWTP to overflow.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. *Municipally incorporated areas*

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: N/A

2. *Utility CCN areas*

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☒ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: N/A

3. ***Nearby WWTPs or collection systems***

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: N/A

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: N/A

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☒ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): 1.6 MGD (ADF)

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 86

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 1148

Provide the source of the average organic strength or BOD_5 concentration.

Owner Provided Raw Datasheet

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	N/A	N/A
Subdivision	N/A	N/A
Trailer park – transient	N/A	N/A
Mobile home park	N/A	N/A
School with cafeteria and showers	N/A	N/A
School with cafeteria, no showers	N/A	N/A
Recreational park, overnight use	N/A	N/A
Recreational park, day use	N/A	N/A
Office building or factory	N/A	N/A
Motel	N/A	N/A
Restaurant	N/A	N/A
Hospital	N/A	N/A
Nursing home	N/A	N/A
Other	N/A	N/A
TOTAL FLOW from all sources	N/A	
AVERAGE BOD_5 from all sources		N/A

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: N/A mg/l after N/A minutes detention time at peak flow

Dechlorination process: N/A

☒ Ultraviolet Light: 3.94 seconds contact time at peak flow

☐ Other: N/A

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: M

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☒ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

N/A

Provide the source(s) used to determine 100-year frequency flood plain.

FEMA FIRMette

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☒ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: N/A

If no, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose: N

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☒ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: N/A

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☒ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: N/A

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: O

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

Attach a USGS map that identifies the location of the intake.

Attachment: N/A

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

N/A

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

N/A

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☒ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: The flow discharges into an unnamed tributary which eventually leads to the San Jacinto River Basin.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

Average depth of water body within a 500-foot radius of discharge point, in feet: N/A

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: N/A

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

N/A

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

The receiving waterbody is a man-made channel or drainage ditch. Under normal dry weather conditions, the ditch is dry.

Date and time of observation: 02/01/2024

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: N/A

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- ☒ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: N/A

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 66)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

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

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click to enter text.

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

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☐ No

If yes, describe how the site will be protected from inundation.

Click to enter text.

Provide the source used to determine the 100-year frequency flood level:

Click to enter text.

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☐ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: Click to enter text.

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click to enter text.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 72)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

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

Method of application: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

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

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☒ Composite ☒

Date and time sample(s) collected: 08/09/23@08:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<3.0		1	50
Aldrin	<0.003		1	0.01
Aluminum	53.1		1	2.5
Anthracene	<0.35		1	10
Antimony	0.58		1	5
Arsenic	2.31		1	0.5
Barium	60.0		1	3
Benzene	<1.0		1	10
Benzidine	<0.66		1	50
Benzo(a)anthracene	<0.38		1	5
Benzo(a)pyrene	<0.85		1	5
Bis(2-chloroethyl)ether	<0.72		1	10
Bis(2-ethylhexyl)phthalate	<2.2		1	10
Bromodichloromethane	17.8		1	10
Bromoform	1.66		1	10
Cadmium	<0.6		1	1
Carbon Tetrachloride	<1.0		1	2
Carbaryl	<2.53		1	5
Chlordane*	<0.10		1	0.2
Chlorobenzene	<1.0		1	10
Chlorodibromomethane	13.1		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	16.2		1	10
Chlorpyrifos	<0.04		1	0.05
Chromium (Total)	0.43		1	3
Chromium (Tri) **(*1)**	<3.0		1	N/A
Chromium (Hex)	<3.0		1	3
Copper	9.03		1	2
Chrysene	<0.57		1	5
p-Chloro-m-Cresol	<4.0		1	10
4,6-Dinitro-o-Cresol	<5.0		1	50
p-Cresol	<4.0		1	10
Cyanide **(*2)**	<2.2		1	10
4,4'- DDD	<0.006		1	0.1
4,4'- DDE	<0.002		1	0.1
4,4'- DDT	<0.004		1	0.02
2,4-D	<0.19		1	0.7
Demeton (O and S)	<0.04		1	0.20
Diazinon	<0.04		1	0.5/0.1
1,2-Dibromoethane	<1.0		1	10
m-Dichlorobenzene	<0.53		1	10
o-Dichlorobenzene	<0.41		1	10
p-Dichlorobenzene	<0.25		1	10
3,3'-Dichlorobenzidine	<0.88		1	5
1,2-Dichloroethane	<1.0		1	10
1,1-Dichloroethylene	<1.0		1	10
Dichloromethane	<1.0		1	20
1,2-Dichloropropane	<1.0		1	10
1,3-Dichloropropene	<1.0		1	10
Dicofol	<0.05		1	1
Dieldrin	<0.003		1	0.02
2,4-Dimethylphenol	<0.53		1	10
Di-n-Butyl Phthalate	<1.20		1	10
Diuron	<0.0455		1	0.09
Endosulfan I (alpha)	<0.003		1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.01		1	0.02
Endosulfan Sulfate	<0.003		1	0.1
Endrin	<0.004		1	0.02
Ethylbenzene	<1.0		1	10
Fluoride	599		1	500
Guthion	<0.04		1	0.1
Heptachlor	<0.005		1	0.01
Heptachlor Epoxide	<0.002		1	0.01
Hexachlorobenzene	<0.69		1	5
Hexachlorobutadiene	<0.41		1	10
Hexachlorocyclohexane (alpha)	<0.008		1	0.05
Hexachlorocyclohexane (beta)	<0.01		1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.005		1	0.05
Hexachlorocyclopentadiene	<0.35		1	10
Hexachloroethane	<0.47		1	20
Hexachlorophene	<5.26		1	10
Lead	<0.19		1	0.5
Malathion	<0.05		1	0.1
Mercury	0.00216		1	0.005
Methoxychlor	<0.005		1	2
Methyl Ethyl Ketone	1.11		1	50
Mirex	<0.01		1	0.02
Nickel	1.96		1	2
Nitrate-Nitrogen	10600		1	100
Nitrobenzene	<0.91		1	10
N-Nitrosodiethylamine	<0.47		1	20
N-Nitroso-di-n-Butylamine	<5.0		1	20
Nonylphenol	<5.0		1	333
Parathion (ethyl)	<0.06		1	0.1
Pentachlorobenzene	<3.0		1	20
Pentachlorophenol	<0.5		1	5
Phenanthrene	<0.44		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.08		1	0.2
Pyridine	<0.35		1	20
Selenium	<0.6		1	5
Silver	<0.06		1	0.5
1,2,4,5-Tetrachlorobenzene	<5.0		1	20
1,1,2,2-Tetrachloroethane	<1.0		1	10
Tetrachloroethylene	<1.0		1	10
Thallium	<0.03		1	0.5
Toluene	<1.0		1	10
Toxaphene	<0.10		1	0.3
2,4,5-TP (Silvex)	<0.19		1	0.3
Tributyltin (see instructions for explanation)	NA		1	0.01
1,1,1-Trichloroethane	<1.0		1	10
1,1,2-Trichloroethane	<1.0		1	10
Trichloroethylene	<1.0		1	10
2,4,5-Trichlorophenol	<0.85		1	50
TTHM (Total Trihalomethanes)	48.76		1	10
Vinyl Chloride	<1.0		1	10
Zinc	20.4		1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☒

Date and time sample(s) collected: 08/09/23@08:00

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

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	0.58		1	5
Arsenic	2.31		1	0.5
Beryllium	<0.09		1	0.5
Cadmium	<0.06		1	1
Chromium (Total)	<3.0		1	3
Chromium (Hex)	<3.0		1	3
Chromium (Tri) **(*1)**	<3.0		1	N/A
Copper	9.03		1	2
Lead	<0.19		1	0.5
Mercury	0.00216		1	0.005
Nickel	1.96		1	2
Selenium	<0.6		1	5
Silver	<0.06		1	0.5
Thallium	<0.03		1	0.5
Zinc	20.4		1	5
Cyanide **(*2)**	<2.2		1	10
Phenols, Total	<4.5		1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<6.0		1	50
Acrylonitrile	<3.0		1	50
Benzene	<1.0		1	10
Bromoform	1.66		1	10
Carbon Tetrachloride	<1.0		1	2
Chlorobenzene	<1.0		1	10
Chlorodibromomethane	13.1		1	10
Chloroethane	<1.0		1	50
2-Chloroethylvinyl Ether	<6.0		1	10
Chloroform	16.2		1	10
Dichlorobromomethane [Bromodichloromethane]	17.8		1	10
1,1-Dichloroethane	<1.0		1	10
1,2-Dichloroethane	<1.0		1	10
1,1-Dichloroethylene	<1.0		1	10
1,2-Dichloropropane	<1.0		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.0		1	10
1,2-Trans-Dichloroethylene	<1.0		1	10
Ethylbenzene	<1.0		1	10
Methyl Bromide	<2.0		1	50
Methyl Chloride	<1.0		1	50
Methylene Chloride	<1.0		1	20
1,1,2,2-Tetrachloroethane	<1.0		1	10
Tetrachloroethylene	<1.0		1	10
Toluene	2.15		1	10
1,1,1-Trichloroethane	<1.0		1	10
1,1,2-Trichloroethane	<1.0		1	10
Trichloroethylene	<1.0		1	10
Vinyl Chloride	<1.0		1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<0.5		1	10
2,4-Dichlorophenol	<0.69		1	10
2,4-Dimethylphenol	<0.53		1	10
4,6-Dinitro-o-Cresol	<0.66		1	50
2,4-Dinitrophenol	<1.4		1	50
2-Nitrophenol	<0.88		1	20
4-Nitrophenol	<1.1		1	50
P-Chloro-m-Cresol	7.95		1	10
Pentalchlorophenol	<0.5		1	5
Phenol	4.90		1	10
2,4,6-Trichlorophenol	<0.79		1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<0.28		1	10
Acenaphthylene	<0.47		1	10
Anthracene	<0.35		1	10
Benzidine	<0.66		1	50
Benzo(a)Anthracene	<0.38		1	5
Benzo(a)Pyrene	<0.85		1	5
3,4-Benzofluoranthene	<0.57		1	10
Benzo(ghi)Perylene	<0.63		1	20
Benzo(k)Fluoranthene	<0.57		1	5
Bis(2-Chloroethoxy)Methane	<0.35		1	10
Bis(2-Chloroethyl)Ether	<0.72		1	10
Bis(2-Chloroisopropyl)Ether	<0.85		1	10
Bis(2-Ethylhexyl)Phthalate	<2.2		1	10
4-Bromophenyl Phenyl Ether	<0.41		1	10
Butyl benzyl Phthalate	<0.69		1	10
2-Chloronaphthalene	<0.28		1	10
4-Chlorophenyl phenyl ether	<0.66		1	10
Chrysene	<0.57		1	5
Dibenzo(a,h)Anthracene	<0.69		1	5
1,2-(o)Dichlorobenzene	<0.41		1	10
1,3-(m)Dichlorobenzene	<0.53		1	10
1,4-(p)Dichlorobenzene	<0.25		1	10
3,3-Dichlorobenzidine	<0.88		1	5
Diethyl Phthalate	<0.63		1	10
Dimethyl Phthalate	<0.72		1	10
Di-n-Butyl Phthalate	<1.20		1	10
2,4-Dinitrotoluene	<0.97		1	10
2,6-Dinitrotoluene	<1.2		1	10
Di-n-Octyl Phthalate	<2.8		1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.22		1	20
Fluoranthene	<0.44		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.47		1	10
Hexachlorobenzene	<0.69		1	5
Hexachlorobutadiene	<0.41		1	10
Hexachlorocyclo-pentadiene	<0.35		1	10
Hexachloroethane	<0.47		1	20
Indeno(1,2,3-cd)pyrene	<0.22		1	5
Isophorone	<0.28		1	10
Naphthalene	<0.31		1	10
Nitrobenzene	<0.91		1	10
N-Nitrosodimethylamine	<0.79		1	50
N-Nitrosodi-n-Propylamine	<0.72		1	20
N-Nitrosodiphenylamine	<0.47		1	20
Phenanthrene	<0.44		1	10
Pyrene	<0.57		1	10
1,2,4-Trichlorobenzene	<0.53		1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.003		1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.008		1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.01		1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.005		1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.004		1	0.05
Chlordane	<0.10		1	0.2
4,4-DDT	<0.004		1	0.02
4,4-DDE	<0.002		1	0.1
4,4,-DDD	<0.006		1	0.1
Dieldrin	<0.003		1	0.02
Endosulfan I (alpha)	<0.003		1	0.01
Endosulfan II (beta)	<0.01		1	0.02
Endosulfan Sulfate	<0.003		1	0.1
Endrin	<0.004		1	0.02
Endrin Aldehyde	<0.008		1	0.1
Heptachlor	<0.005		1	0.01
Heptachlor Epoxide	<0.002		1	0.01
PCB-1242	<0.01		1	0.2
PCB-1254	<0.01		1	0.2
PCB-1221	<0.01		1	0.2
PCB-1232	<0.01		1	0.2
PCB-1248	<0.01		1	0.2
PCB-1260	<0.01		1	0.2
PCB-1016	<0.02		1	0.2
Toxaphene	<0.10		1	0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

N/A

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☐ No

If **yes**, provide a brief description of the conditions for its presence.

N/A

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☒

Date and time sample(s) collected: 08/09/2023

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1	**<5.11**				10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: o

48-hour Acute: See Attachment P

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

N/A

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	See Attachment P		

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 1

Average Daily Flows, in MGD: 0.0153

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

N/A

C. Treatment plant pass through

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

☐ Yes ☒ No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

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

A. Substantial modifications

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

☐ Yes ☒ No

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

N/A

B. Non-substantial modifications

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

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

N/A

C. Product and service information

Provide a description of the principal product(s) or services performed.

N/A

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: N/A

Click or tap here to enter text. N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

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

☐ Yes ☐ No

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

N/A

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

Location description (if no address is available): Click to enter text.

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

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

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

   Name: Click to enter text.

   Thickness: Click to enter text.
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
13. Maximum injection Rate/Volume/Pressure: Click to enter text.
14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.
17. Sampling frequency: Click to enter text.
18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

NB Davidson WWTP
Appendix A - Basis of Design Calculations

Actual Oxygen Required

Design Concentrations

Air requirements - Assuming complete nitrification, NO denitrification credit

BOD5	200	mg/l
TKN	45	mg/l

O_2R per lb of BOD5	1.2	lb
O_2R per lb of TKN	4.3	lb

For 1.6 MGD (Design Case)	1,600,000	gallons/day
BOD5	2,671	lb BOD5/day
TKN	600.91	lb TKN/day
Total Actual Oxygen Requirement	5,789	lb O2/day (AOR)
	4.02	lb O2/min (AOR)
Basin Count	3	n-1
(DESIGN BASIS) AOR per Basin	1,930	lb O2/day (AOR)

Air requirements - Assuming complete nitrification, w/ denitrification credit

BOD5	200	mg/l
TKN	45	mg/l

O_2R per lb of BOD5	1.2	lb
O2R per lb of TKN	1.7	lb

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
AOR Calcs

For 1.6 MGD	1,600,000	gallons/day
BOD5	2,671	lb BOD5/day
TKN	600.91	lb TKN/day
Total Actual Oxygen Requirement	4,226	lb O2/day (AOR)
	2.93	lb O2/min (AOR)
Basin Count	3	n-1
AOR per Basin	1,409	lb O2/day (AOR)

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
SBR Basin Sizing - Hydraulics

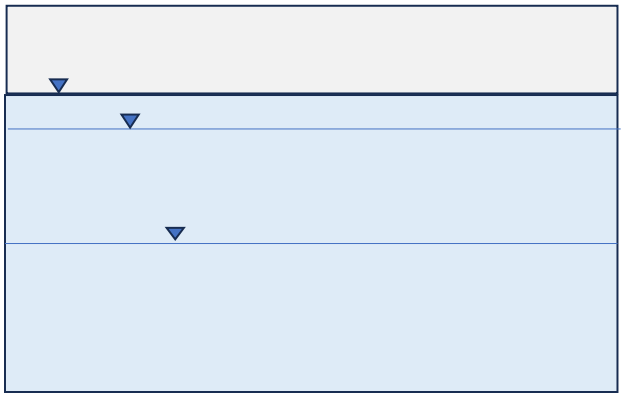
30 TAC §217.154(b)(2) Aeration Basin and Clarifier Sizing - Traditional Design dictates that an SBR Basin shall be designed with a maximum organic loading rate of 35 lbs. BOD5/day/1,000 cubic feet (cf).

$$Min.\,Basin\,Volume = 35\ \frac{lbs\ BOD5}{day}/1{,}000ft^3$$

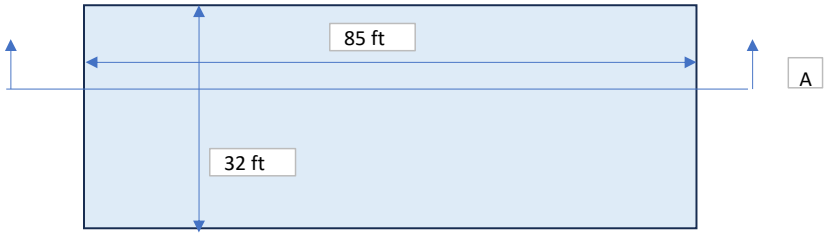
Maximum loading rate	35	lbs. BOD5/day/1,000 cubic feet (cf)
BOD5 Concentration	200	mg/l
For 1.6 MGD	1,600,000.00	gallons/day
BOD5 Loading	2,670.70	lb/day
Min. Total Basin Volume	76,305.60	cf
Assumed TWL	20.00	ft
Min. Total Basin Area	3,815.28	ft^2
Number of Basins	4	
Min. Area per Basin	953.82	ft^2
Basin Width	30	ft
Min. Basin Length	31.79	ft
Proposed Basin Width	32	ft
Proposed Basin Length	85	ft
Proposed Basin Area	2,720	ft^2
Proposed Basin Volume	217,600.00	ft^3
Proposed Basin Volume	1,627,865.60	GAL
Proposed Basin Volume	1.63	MGAL
% of Time Aerated	50	%
Actual Loading Rate	24.55	lbs. BOD5/day/1,000 cubic feet (cf)
EQ Basin Width	15	ft
EQ Basin Length	132.5	ft
Water Level	9	ft
EQ Basin Volume	133,807	gal

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
Basin Sketch

Top of Wall	23.00	ft
Freeboard	1.50	ft
Max Water Level	21.50	ft
Top Water Level	20.00	ft
Bottom Water Level	13.45	ft
Floor	0.00	ft
Basin Length	85.00	ft
Basin Width	32.00	ft
Basin Area	2,720	ft^2
	7.48	gal/ft^3
Max liquid Volume (MAX)	58,480	cu ft
	437,460	gal
Top Water Level Volume	54,400	cu ft
	406,939	gal
Volume at Lowest Decant	36,584	cu ft
	273,667	gal
Normal Working Volume	17,816	cu ft
	133,273	gal
Max Working Volume	21,896	cu ft
	163,793	gal
Basin Count	4.00	n
Total Basin Volume @ TWL	1,627,757	gal
Basin Count	3	n-1
Total Basin Volume @ TWL	1,220,818	gal



Profile (A-A)



Plan

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs

Proposed Basin Volumes Operating @ 1.6 MGD ADF w/ 1 Basin Out of Service		
Top of Wall	23	ft
Min. Freeboard	1.5	ft
HWL (Peak Flow)	21.5	ft
TWL (Average Flow)	20	ft
Number of Basins in Operation	3	n-1
Peak Hydraulic Flow Rate per Basin	533,333.33	gal/day
Cycles per Day	5	
Peak Hydraulic Flow Rate per Batch	106,666.67	gal/cycle
Volume per Batch	14,260	ft^3
Basin Width	32	ft
Basin Length	85	ft
Area per Basin	2,720	ft^2
Volume per Basin	54,400	ft^3
Total Basin Volume	217,600	ft^3
Height per Batch	5.24	ft
BWL	14.76	
Volume Below BWL	300,245.33	gal

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
SOR & Blower Calcs

Source: Sanitaire Diffused Air Design Guide

$$\frac{AOR}{SOR} = .33 \qquad SOR\,\frac{LB}{DAY} \div \frac{1{,}440min}{day} = SOR\,\frac{lbO_2}{minute}$$

$$SCFM\ Air = \frac{SOR\,\frac{lbO2}{minute}}{(\text{OTE \%} \times \text{Submergence}) \times (\text{Density of Air} \times \text{\% O2 per lb of Air})}$$

Air requirements - Assuming complete nitrification, NO denitrification credit
(DESIGN BASIS)

Average Daily Flow and City-wide Average Concentrations (DESIGN CASE)		
CBOD5	200	mg/l
TKN	45	mg/l
Average Daily	1,600,000	gal/day
AOR **Per Basin**	1,930	lb O_2/Day
AOR/SOR	0.33	From Sanitaire for FINE BUBBBLE aeration
SOR	**5,847.21**	lb O_2/Day
	1,440	min/day
	4.06	lb O_2/min
Transfer efficiency	2.00%	Trasfer eff/ft submergence
Submergence	**19**	ft
Transfer efficiency (OTE)	**0.38**	Oxygen transfer efficiency in clear water
Density of Air	0.075	lb/cu ft
lb O2/lb air	0.23	Fraction O_2 in Air
	0.01725	lbO_2/SCFM
Transfer rate	**0.006555**	lb O_2/min/SCFM
Time Aerated per Day	8.00	hours
Air demand **Per Basin**	619.46	scfm air
Blower Size **Per Basin**	1,858.38	scfm **(Assuming 8 Hours of Aeration per Basin)**

Adiabatic Compression Formula

$$BHP = \frac{SCFM(.23)\left[\left(\frac{14.7+P}{14.7}\right)^{0.283} - 1.0\right]}{\text{MECHANICAL EFFICIENCY}}$$

Where BHP (brake horsepower) = $\frac{\text{adiabatic horsepower}}{\text{mechanical efficiency}}$

P = Blower discharge pressure in PSIG

Estimated Blower HP		
P	10.7	Blower discharge pressure, psia
η	0.7	Mechanical Efficiency
BHP **Per Basin**	**102.21**	

Max Day/Month Flow and City-wide Average Concentrations		
BOD5	200	mg/l
TKN	45	mg/l
MAX Day/Month	2,288,000	gal/day
AOR	8,277.89	lb O_2/Day
AOR/SOR	0.33	From Sanitaire for FINE BUBBLE Diffusers
SOR	**25,084.51**	lb O_2/Day
	1,440	min/day
	17.42	lb O_2/min
Transfer efficiency	2.00%	Trasfer eff/ft submergence
Submergence	**20.5**	ft
Transfer efficiency	**0.41**	Oxygen transfer efficiency in clear water
Density of Air	0.075	lb/cu ft
lb O2/lb air	0.23	Fraction O_2 in Air
	0.01725	lbO_2/SCFM
Transfer rate	**0.0070725**	lb O_2/min/SCFM
Time Aerated per Day	8.00	hours
Air demand	2,463.03	scfm air
Blower Size **Per Basin**	7,389.10	scfm **(Assuming 8 Hours of Aeration per Basin)**

Adiabatic Compression Formula

$$BHP = \frac{SCFM(.23)\left[\left(\frac{14.7+P}{14.7}\right)^{0.283} - 1.0\right]}{\text{MECHANICAL EFFICIENCY}}$$

Where BHP (brake horsepower) = $\frac{\text{adiabatic horsepower}}{\text{mechanical efficiency}}$

P = Blower discharge pressure in PSIG

Estimated Blower HP		
P	10.7	Blower discharge pressure, psia
η	0.7	Mechanical Efficiency
Q*p/(229*eff)	Q*p/(229*eff)	approx HP (uncorrected for temp, compressability)
BHP **Per Basin**	**132.52**	

City of Huntsville
N.B. Davidson WWTP
EQ Basin Air Requirements

Equalization Basin Air Requirements

Number of Basins	1	
Length	133.25	ft
Width	15	ft
Depth	23	ft
Volume	**45971.25**	cf

Air requirment	20	SCFM/1000ft^3
Air flow rate required	**919.425**	SCFM

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
Cycle Schedules

Cycle Schedule - 4 Basins in Operation					
Cycles (batches) per Day per Basin	4	5	6	8	10
Basins in Operation	4	4	4	4	4
Hours per Day	24	24	24	24	24
Hours per Cycle	6	4.8	4	3	2.4
Minutes per Cycle	360	288	240	180	144
Fill % of Cycle	25%	25%	25%	25%	25%
React % of Cycle	35%	35%	35%	35%	35%
Settle % of Cycle	20%	20%	20%	20%	20%
Decant % of Cycle	20%	20%	20%	20%	20%
Fill Min	90.00	72.00	60.00	45.00	36.00
React Min	126.00	100.80	84.00	63.00	50.40
Settle Min	72.00	57.60	48.00	36.00	28.80
Decant Min	72.00	57.60	48.00	36.00	28.80

Cycle Schedule - 4 Basins in Operation - Decant Rates					
Flow, MGD	6.50	6.50	6.50	6.50	6.50
Flow, gpm	4,513.89	4,513.89	4,513.89	4,513.89	4,513.89
Min to fill working vol	30	30	30	30	30
Working volumes filled in 2 hrs	4	4	4	4	4
decant rate at max level	2,275	2,844	3,412	4,550	5,687

N-1 Cycle Schedule - 3 Basins in Operation					
Cycles (batches) per Day per Basin	4	5	6	8	10
Basins in Operation	3	3	3	3	3
Hours per Day	24	24	24	24	24
Hours per Cycle	6	4.8	4	3	2.4
Minutes per Cycle	360	288	240	180	144
Fill % of Cycle	25%	25%	25%	25%	25%
React % of Cycle	35%	35%	35%	35%	35%
Settle % of Cycle	20%	20%	20%	20%	20%
Decant % of Cycle	20%	20%	20%	20%	20%
Fill Min	90.00	72.00	60.00	45.00	36.00
React Min	126.00	100.80	84.00	63.00	50.40
Settle Min	72.00	57.60	48.00	36.00	28.80
Decant Min	72.00	57.60	48.00	36.00	28.80

N-1 Cycle Schedule - 3 Basins in Operation - Decant Rates					
Flow, MGD	6.50	6.50	6.50	6.50	6.50
Flow, gpm	4,513.89	4,513.89	4,513.89	4,513.89	4,513.89
Min to fill working vol	30	30	30	30	30
Working volumes filled in 2 hrs	4	4	4	4	4
decant rate at max level, gpm	2,275	2,844	3,412	4,550	5,687

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
Disk Filter Calculations

Source: TCEQ §217.193(c)(2).

$$Minimim\ Filter\ Surface\ Area = \frac{Peak\ FlowRate \frac{gal}{minute}}{6.5\ \frac{gal}{minute/ft^2}}$$

For 4 MGD PEAK FLOW		
Peak Flow Rate	4.00	MGD
	4,000,000	gallons/day
	1,444	min/day
	2,770	gpm
Flow Rate per Surface Area	6.5	gal/min/ft^2
Minimum Required Filter Suface Area	427.35	ft^2
Area per Filter Disk	72.0	ft^2
Min. Disks Required	6.00	
Total Recommended Disks	7.00	

For 6.5 MGD PEAK FLOW		
Peak Flow Rate	6.50	MGD
	6,500,000	gallons/day
	1,444	min/day
	4,501	gpm
Flow Rate per Surface Area	6.5	gal/min/ft^2
Minimum Required Filter Suface Area	694.44	ft^2
Area per Filter Disk	72.0	ft^2
Min. Disks Required	10.00	
Total Recommended Disks	11.00	

City of Huntsville
NB Davidson WWTP
Sludge Production Calcs

$$P_{X,TSS} = \frac{QY(S_0 - S)}{1 + k_d(\mathrm{SRT})} \cdot \frac{1}{0.85} + \frac{f_d k_d YQ(S_0 - S)(\mathrm{SRT})}{1 + k_d(\mathrm{SRT})} \cdot \frac{1}{0.85} + QX_{0,i} + Q(\mathrm{TSS}_0 - \mathrm{VSS}_0)$$

Source: Metcalf and Eddy Wastewater Engineering Treatment and Reuse Edition 4 Equation 7 – 53 page no. 594

Current Concentrations

Biomass yield (Y)	0.6	mg VSS/mg BOD
Endogeneous coefficient (Kd)	0.1	g VSS/g VSS d
Solids Retention time (SRT)	6	days
Influent total suspended solids (TSSo)	116.56	mg/l
Influent soluble substrate concentration (So)	86	mg/l
Effluent soluble substrate concentration (S)	10	mg/l
Fraction of Biomass that is left as Cell debris (Fd)	0.15	
rbVSS concentration in influent (Xo,i)	19	g/m^3
Influent Volatile Suspended solids (VSSo)	95	mg/l

For 0.92 MGD	920,000.00	gal
	3.79	litres/gal
	3,486,800.00	litres/day
Influent flowrate (Q)	3,486.80	m^3/day
$P_{X,TSS}$	268,856.89	m^3/d*mg/l
	268.86	1 m^3/day * 1 mg/L: = 0.001 kg/day kg/day
	2.21	lb/kg
Total Solids Wasted Daily ($P_{X,TSS}$)	592.83	lbs/day

For 1.6 MGD	1,600,000.00	gal
	3.79	litres/gal
	6,064,000.00	litres/day
Influent flowrate (Q)	6,064.00	m^3/day
$P_{X,TSS}$	467,577.20	m^3/d*mg/l
	467.58	1 m^3/day * 1 mg/L: = 0.001 kg/day kg/day
	2.21	lb/kg
Total Solids Wasted Daily ($P_{X,TSS}$)	1,031.01	lbs/day

Design Concentrations

Biomass yield (Y)	0.6	mg VSS/mg BOD
Endogeneous coefficient (Kd)	0.1	g VSS/g VSS d
Solids Retention time (SRT)	6	days
Influent total suspended solids (TSSo)	188	mg/l
Influent soluble substrate concentration (So)	200	mg/l
Effluent soluble Substrate concentration (S)	10	mg/l
Fraction of Biomass that is left as Cell debris (Fd)	0.15	
rbVSS concentration in influent (Xo,i)	19	g/m^3
Influent Volatile Suspended solids (VSSo)	95	mg/l

For 0.92 MGD	920,000.00	gal
	3.79	litres/gal
	3,486,800.00	litres/day
Influent flowrate (Q)	3,486.80	m^3/day
$P_{X,TSS}$	709,102.31	m^3/d*mg/l
	709.10	1 m^3/day * 1 mg/L: = 0.001 kg/day kg/day
	2.21	lb/kg
Total Solids Wasted Daily ($P_{X,TSS}$)	1,563.57	lbs/day

For 1.6 MGD (Design Case)	1,600,000.00	gal
	3.79	litres/gal
	6,064,000.00	litres/day
Q	6,064.00	m^3/day
$P_{X,TSS}$	1,233,221.41	m^3/d*mg/l
	1,233.22	1 m^3/day * 1 mg/L: = 0.001 kg/day kg/day
	2.21	lb/kg
Total Solids Wasted Daily ($P_{X,TSS}$)	2,719.25	lbs/day

City of Huntsville
NB Davidson WWTP - Basis of Design Calcs
Aerobic Digesters - Aeration

The following calculations were used to idntify the sludge dister aeration/mixing requirements, using 30 TAC §217.249. Sludge Stabilization (t)(7),

Difused Air Mixing

(G) If diffused air mixing is used, the energy input for mixing must be at least 20 standard cubic feet per minute per 1,000 cubic feet of aeration tank.

Aerobic Digestor Internal Diameter (ID)	45.00	ft
Aerobic Digester Depth(h)	13.00	ft
Existing Volume of Aerobic Digeseter (V)	**20,675.61**	ft^3
Assumed Solids Concentration	0.02	%
VSS Loading Rate	150.00	lbs/1,000 ft^3/day
Min. Air Requirements	20.00	SCFM/1,000 ft^3
Min. DO Concentration	0.50	mg/l
Min. Required Volume For 40 Day SRT	20,756.91	ft^3
Total Air Required	**413.51**	SCFM

Mechanical Mixing

(F) If mechanical aerators are used, the energy input for mixing must be at least 0.5 horsepower per 1,000 cubic feet.

Aerobic Digestor Internal Diameter (ID)	45.00	ft
Aerobic Digester Depth(h)	13.00	ft
Existing Volume of Aerobic Digeseter (V)	**20,675.61**	ft^3
Min. Horsepower Requirements	0.50	HP/1,000 ft^3
Min. Required Volume For 40 Day SRT	20,756.91	ft^3
Total Mixing HP Required	**10.34**	HP

City of Huntsville
NB Davidson WWTP - Basis of Design calcs
Sludge Drying Bed calcs

The following calculations were used to idntify the sludge dister aeration/mixing requirements, using 30 TAC §217.249. Sludge Stabilization (t)(7),

Figure: 30 TAC §217.250(e)(2)(A)(ii)

Table J.3. - Surface Area Requirements for Sludge Drying Beds

Stabilization Process	Pounds of Digested Dry Solids *per square foot per year*
Anaerobic Digestion	20.0
Aerobic Digestion	15.0

Current Concentrations

For 0.92 MGD		
Total Solids Wasted Daily (PX,TSS)	592.83	lbs/day
	0.002739726	day/year
	216382.7487	lbs/year
Pounds of Digested Dry solids	15	lbs/ft^2/year
Surface area required	**14,426**	ft^2

For 1.6 MGD		
Total Solids Wasted Daily (PX,TSS)	1,031.01	lbs/day
	0.002739726	day/year
	376,318	lbs/year
Pounds of Digested Dry solids	15	lbs/ft^2/year
Surface area required	**25,088**	ft^2

Design Concentrations

For 0.92 MGD		
Total Solids Wasted Daily (PX,TSS)	1,563.57	lbs/day
	0.002739726	day/year
	570,703	lbs/year
Pounds of Digested Dry solids	15	lbs/ft^2/year
Surface area required	**38,047**	ft^2

For 1.6 MGD		
Total Solids Wasted Daily (PX,TSS)	2,719.25	lbs/day
	0.002739726	day/year
	992,527	lbs/year
Pounds of Digested Dry solids	15	lbs/ft^2/year
Surface area required	**66,168**	ft^2

Minimum Digestor Volume Required @ Solids Concentration 0.75% and Sludge Concentration 2%

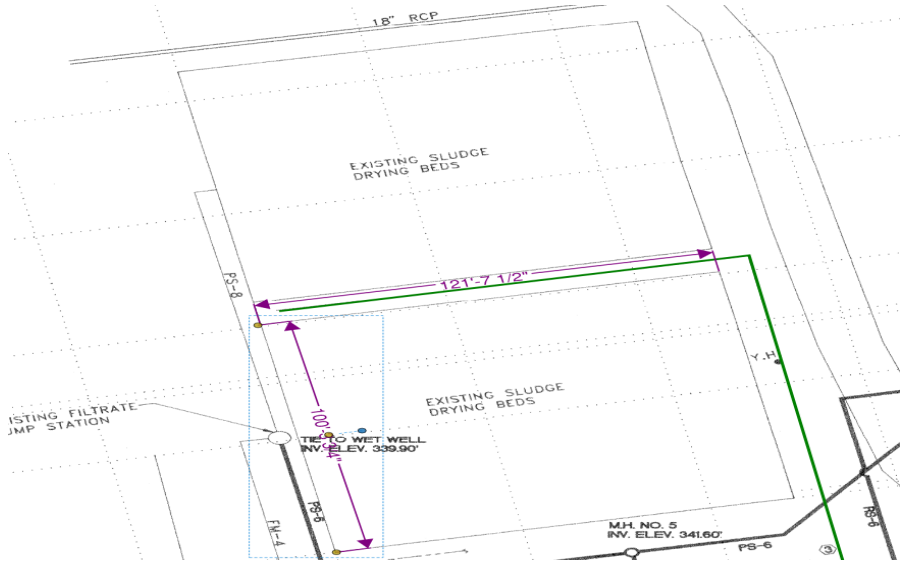
Portion of the Influent BOD Consisting of Raw Primary Solids (Y)	0.00%	
Influent Suspended Solids (Xi)	7,500	mg/l
Digester Suspended solids (X)	20,000	mg/l
Reaction rate Constant (Kd)	0.1	/day
Influent digester BOD5 (Si)	1,000	mg/l
Volatile fraction of digester suspended solids (Pv)	47%	
Sludge Retention time (SRT)	40	days

For 0.92 MGD @ .75% Solids Concentration , Sludge Concentation 2%		
Total Solids Wasted Daily ($P_{X,TSS}$)	592.83	lbs/day
Solids Concentration	0.75%	
	8.34	lb/gal
Influent average flow rate (Qi)	**9,477.69**	ft^3/d
Volume of Digestor	**49,362.96**	ft^3

For 1.6 MGD @ .75% Solids Concentration , Sludge Concentation 2%		
Total Solids Wasted Daily ($P_{X,TSS}$)	1,031.01	lbs/day
Solids Concentration	0.75%	
	8.34	lb/gal
Influent average flow rate (Qi)	**16,482.94**	ft^3/d
Volume of Digestor	**85,848.63**	ft^3

City of Huntsville
NB Davidson WWTP - Basis of Design calcs
Sludge Drying Bed calcs

Existing Sludge drying beds	
No. of sludge drying beds	4



Sludge drying bed		
Length	121.625	ft
width	100.3125	ft
Area	**12,201**	ft^2
Total sludge drying beds area	**48,802**	ft^2

Authorization ID: SAM100303
Contact ID: CITY OF HUNTSVILLE
Expiration Date: 12/31/2031
Use Code: 343, 342

FS-2700-4 (VER 03/17)
OMB No. 0596-0082

U.S. DEPARTMENT OF AGRICULTURE
Forest Service
SPECIAL USE PERMIT
AUTHORITY:
FEDERAL LAND POLICY AND MGMT ACT, AS AMENDED October 21, 1976

City of Huntsville of 1212 Avenue M, Huntsville, TX 77320 (hereinafter "the holder") is authorized to use or occupy National Forest System lands in the Sam Houston National Forest of the National Forests and Grasslands in Texas National Forest System, subject to the terms and conditions of this special use permit (the permit).

This permit covers a total of **23.98 acres/4.35 miles** within Forest Service Tracts J-12a and J-69, Compartments 56 and 58, Walker County, Texas in the Sam Houston National Forest ("the permit area"), as shown on the maps and field notes attached hereto and made a part of this permit. This and any other appendices to this permit are hereby incorporated into this permit.

This permit is issued for the purpose of: to authorize the continued operation and maintenance of an existing waste water treatment facility and associated rights-of-way as shown on Exhibit A. The waste water treatment plant and lift station encompass 10.06 acres and the associated rights-of-way encompass 13.92 acres/4.35 miles). See attached "Exhibit A". This facility will be phased-out of Forest Service lands prior to the expiration date.

TERMS AND CONDITIONS

I. GENERAL TERMS

A. AUTHORITY. This permit is issued pursuant to the Federal Land Policy and Mgmt. Act, as amended, October 21, 1976 and 36 CFR Part 251, Subpart B, as amended, and is subject to their provisions.

B. AUTHORIZED OFFICER. The authorized officer is the Forest or Grassland Supervisor or a subordinate officer with delegated authority.

C. TERM. This permit shall expire at midnight on **12/31/2031**, 10 years from the date of issuance.

D. CONTINUATION OF USE AND OCCUPANCY. This permit is not renewable. Prior to expiration of this permit, the holder may apply for a new permit for the use and occupancy authorized by this permit. Applications for a new permit must be submitted at least 6 months prior to expiration of this permit. Issuance of a new permit is at the sole discretion of the authorized officer. At a minimum, before issuing a new permit, the authorized officer shall ensure that (1) the use and occupancy to be authorized by the new permit is consistent with the standards and guidelines in the applicable land management plan; (2) the type of use and occupancy to be authorized by the new permit is the same as the type of use and occupancy authorized by this permit; and (3) the holder is in compliance with all the terms of this permit. The authorized officer may prescribe new terms and conditions when a new permit is issued.

E. AMENDMENT. This permit may be amended in whole or in part by the Forest Service when, at the discretion of the authorized officer, such action is deemed necessary or desirable to incorporate new terms that may be required by law, regulation, directive, the applicable forest land and resource management plan, or projects and activities implementing a land management plan pursuant to 36 CFR Part 215.

F. COMPLIANCE WITH LAWS, REGULATIONS, AND OTHER LEGAL REQUIREMENTS. In exercising the rights and privileges granted by this permit, the holder shall comply with all present and future federal laws and regulations and all present and future state, county, and municipal laws, regulations, and other legal requirements

that apply to the permit area, to the extent they do not conflict with federal law, regulation, or policy. The Forest Service assumes no responsibility for enforcing laws, regulations, and other legal requirements that fall under the jurisdiction of other governmental entities.

G. NON-EXCLUSIVE USE. The use or occupancy authorized by this permit is not exclusive. The Forest Service reserves the right of access to the permit area, including a continuing right of physical entry to the permit area for inspection, monitoring, or any other purpose consistent with any right or obligation of the United States under any law or regulation. The Forest Service reserves the right to allow others to use the permit area in any way that is not inconsistent with the holder's rights and privileges under this permit, after consultation with all parties involved. Except for any restrictions that the holder and the authorized officer agree are necessary to protect the installation and operation of authorized temporary improvements, the lands and waters covered by this permit shall remain open to the public for all lawful purposes.

H. ASSIGNABILITY. This permit is not assignable or transferable.

I. TRANSFER OF TITLE TO THE IMPROVEMENTS.

1. Notification of Transfer. The holder shall notify the authorized officer when a transfer of title to all or part of the authorized improvements is contemplated.

2. Transfer of Title. Any transfer of title to the improvements covered by this permit shall result in termination of the permit. The party who acquires title to the improvements must apply for a permit. The Forest Service is not obligated to issue a new permit to the party who acquires title to the improvements. The authorized officer shall determine that the applicant meets requirements under applicable federal regulations.

J. CHANGE IN CONTROL OF THE BUSINESS ENTITY.

1. Notification of Change in Control. The holder shall notify the authorized officer when a change in control of the business entity that holds this permit is contemplated.

a. In the case of a corporation, control is an interest, beneficial or otherwise, of sufficient outstanding voting securities or capital of the business so as to permit the exercise of managerial authority over the actions and operations of the corporation or election of a majority of the board of directors of the corporation.

b. In the case of a partnership, limited partnership, joint venture, or individual entrepreneurship, control is a beneficial ownership of or interest in the entity or its capital so as to permit the exercise of managerial authority over the actions and operations of the entity.

c. In other circumstances, control is any arrangement under which a third party can exercise management authority over the actions or operations of the business.

2. Effect of Change in Control. Any change in control of the business entity as defined in paragraph 1 of this clause shall result in termination of this permit. The party acquiring control must apply for a special use permit. The Forest Service is not obligated to issue a new permit to the party who acquires control. The authorized officer shall determine whether the applicant meets the requirements established by applicable federal regulations.

II. IMPROVEMENTS

A. LIMITATIONS ON USE. Nothing in this permit gives or implies permission to build or maintain any structure or facility or to conduct any activity, unless specifically authorized by this permit. Any use not specifically authorized by this permit must be proposed in accordance with 36 CFR 251.54. Approval of such a proposal through issuance of a new permit or permit amendment is at the sole discretion of the authorized officer.

B. PLANS. All plans for development, layout, construction, reconstruction, or alteration of improvements in the permit area, as well as revisions to those plans must be prepared by a professional engineer, architect, landscape

architect, or other qualified professional based on federal employment standards acceptable to the authorized officer. These plans and plan revisions must have written approval from the authorized officer before they are

implemented. The authorized officer may require the holder to furnish as-built plans, maps, or surveys upon completion of the work.

C. CONSTRUCTION. Any construction authorized by this permit shall commence on N/A and shall be completed within N/A.

III. OPERATIONS

A. PERIOD OF USE. Use or occupancy of the permit area shall be exercised at least 365 days each year.

B. CONDITION OF OPERATIONS. The holder shall maintain the authorized improvements and permit area to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the authorized officer and consistent with other provisions of this permit. Standards are subject to periodic change by the authorized officer when deemed necessary to meet statutory, regulatory, or policy requirements or to protect national forest resources. The holder shall comply with inspection requirements deemed appropriate by the authorized officer.

C. MONITORING BY THE FOREST SERVICE. The Forest Service shall monitor the holder's operations and reserves the right to inspect the permit area and transmission facilities at any time for compliance with the terms of this permit. The holder shall comply with inspection requirements deemed appropriate by the authorized officer. The holder's obligations under this permit are not contingent upon any duty of the Forest Service to inspect the permit area or transmission facilities. A failure by the Forest Service or other governmental officials to inspect is not a justification for noncompliance with any of the terms and conditions of this permit.

IV. RIGHTS AND LIABILITIES

A. LEGAL EFFECT OF THE PERMIT. This permit, which is revocable and terminable, is not a contract or a lease, but rather a federal license. The benefits and requirements conferred by this authorization are reviewable solely under the procedures set forth in 36 CFR 214 and 5 U.S.C. 704. This permit does not constitute a contract for purposes of the Contract Disputes Act, 41 U.S.C. 601. The permit is not real property, does not convey any interest in real property, and may not be used as collateral for a loan.

B. VALID EXISTING RIGHTS. This permit is subject to all valid existing rights. Valid existing rights include those derived under mining and mineral leasing laws of the United States. The United States is not liable to the holder for the exercise of any such right.

C. ABSENCE OF THIRD-PARTY BENEFICIARY RIGHTS. The parties to this permit do not intend to confer any rights on any third party as a beneficiary under this permit.

D. SERVICES NOT PROVIDED. This permit does not provide for the furnishing of road or trail maintenance, water, fire protection, search, and rescue, or any other such service by a government agency, utility, association, or individual.

E. RISK OF LOSS. The holder assumes all risk of loss associated with use or occupancy of the permit area, including but not limited to theft, vandalism, fire and any fire-fighting activities (including prescribed burns), avalanches, rising waters, winds, falling limbs or trees, and other forces of nature. If authorized temporary improvements in the permit area are destroyed or substantially damaged, the authorized officer shall conduct an analysis to determine whether the improvements can be safely occupied in the future and whether rebuilding should be allowed. If rebuilding is not allowed, the permit shall terminate.

F. DAMAGE TO UNITED STATES PROPERTY. The holder has an affirmative duty to protect from damage the land, property, and other interests of the United States. Damage includes but is not limited to fire suppression costs and damage to government-owned improvements covered by this permit.

1. The holder shall be liable for all injury, loss, or damage, including fire suppression, prevention, and control of the spread of invasive species, or other costs in connection with rehabilitation or restoration of natural resources

resulting from the use or occupancy authorized by this permit. Compensation shall include but not be limited to the value of resources damaged or destroyed, the costs of restoration, cleanup, or other mitigation, fire

suppression or other types of abatement costs, and all administrative, legal (including attorney's fees), and other costs. Such costs may be deducted from a performance bond required under clause IV.J.

2. The holder shall be liable for damage caused by use of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees to all roads and trails of the United States to the same extent as provided under clause IV.F.1, except that liability shall not include reasonable and ordinary wear and tear.

G. HEALTH AND SAFETY. The holder shall take all measures necessary to protect the health and safety of all persons affected by the use and occupancy authorized by this permit. The holder shall promptly abate as completely as possible and in compliance with all applicable laws and regulations any physical or mechanical procedure, activity, event, or condition existing or occurring in connection with the authorized use and occupancy during the term of this permit that causes or threatens to cause a hazard to the health or safety of the public or the holder's employees or agents. The holder shall as soon as practicable notify the authorized officer of all serious accidents that occur in connection with these procedures, activities, events, or conditions. The Forest Service has no duty under the terms of this permit to inspect the permit area or operations of the holder for hazardous conditions or compliance with health and safety standards.

H. ENVIRONMENTAL PROTECTION

1. For purposes of clause IV.H and section V, "hazardous material" shall mean (a) any hazardous substance under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. 9601(14); (b) any pollutant or contaminant under section 101(33) of CERCLA, 42 U.S.C. 9601(33); (c) any petroleum product or its derivative, including fuel oil, and waste oils; and (d) any hazardous substance, extremely hazardous substance, toxic substance, hazardous waste, ignitable, reactive or corrosive materials, pollutant, contaminant, element, compound, mixture, solution or substance that may pose a present or potential hazard to human health or the environment under any applicable environmental laws.

2. The holder shall avoid damaging or contaminating the environment, including but not limited to the soil, vegetation (such as trees, shrubs, and grass), surface water, and groundwater, during the holder's use and occupancy of the permit area. Environmental damage includes but is not limited to all costs and damages associated with or resulting from the release or threatened release of a hazardous material occurring during or as a result of activities of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees on, or related to, the lands, property, and other interests covered by this permit. If the environment or any government property covered by this permit becomes damaged in connection with the holder's use and occupancy, the holder shall as soon as practicable repair the damage or replace the damaged items to the satisfaction of the authorized officer and at no expense to the United States.

3. The holder shall as soon as practicable, as completely as possible, and in compliance with all applicable laws and regulations abate any physical or mechanical procedure, activity, event, or condition existing or occurring in connection with the authorized use and occupancy during or after the term of this permit that causes or threatens to cause harm to the environment, including areas of vegetation or timber, fish or other wildlife populations, their habitats, or any other natural resources.

I. INDEMNIFICATION OF THE UNITED STATES. The holder shall indemnify, defend, and hold harmless the United States for any costs, damages, claims, liabilities, and judgments arising from past, present, and future acts or omissions of the holder in connection with the use or occupancy authorized by this permit. This indemnification provision includes but is not limited to acts and omissions of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees in connection with the use or occupancy authorized by this permit which result in (1) violations of any laws and regulations which are now or which may in the future become applicable; (2) judgments, claims, demands, penalties, or fees assessed against the United States; (3) costs, expenses, and damages incurred by the United States; or (4) the release or threatened release of any solid waste, hazardous waste, hazardous materials, pollutant, contaminant, oil in any form, or petroleum product into the environment. The authorized officer may prescribe terms that allow the holder to replace, repair, restore, or otherwise undertake necessary curative actions to mitigate damages in addition to or as an alternative to monetary indemnification.

J. STRICT LIABILITY. The holder shall be strictly liable (liable without proof of negligence) to the United States for up to $1 million per occurrence for any injury, loss, or damage arising in tort under this permit. Liability in tort for injury, loss, or damage to the United States exceeding the prescribed amount of strict liability in tort shall be determined under the law of negligence

V. RESOURCE PROTECTION

A. COMPLIANCE WITH ENVIRONMENTAL LAWS. The holder shall in connection with the use or occupancy authorized by this permit comply with all applicable federal, state, and local environmental laws and regulations, including but not limited to those established pursuant to the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901 et seq., the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq., the Oil Pollution Act, as amended, 33 U.S.C. 2701 et seq., the Clean Air Act, as amended, 42 U.S.C. 7401 et seq., CERCLA, as amended, 42 U.S.C. 9601 et seq., the Toxic Substances Control Act, as amended, 15 U.S.C. 2601 et seq., the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, 7 U.S.C. 136 et seq., and the Safe Drinking Water Act, as amended, 42 U.S.C. 300f et seq.

B. VANDALISM. The holder shall take reasonable measures to prevent and discourage vandalism and disorderly conduct and when necessary shall contact the appropriate law enforcement officer.

C. PESTICIDE USE.

1. Authorized Officer Concurrence. Pesticides may not be used outside of buildings in the permit area to control pests, including undesirable woody and herbaceous vegetation (including aquatic plants), insects, birds, rodents, or fish without prior written concurrence of the authorized officer. Only those products registered or otherwise authorized by the U.S. Environmental Protection Agency and appropriate State authority for the specific purpose planned shall be authorized for use within areas on National Forest System lands.

2. Pesticide-Use Proposal. Requests for concurrence of any planned uses of pesticides shall be provided in advance using the Pesticide-Use Proposal (form FS-2100-2). Annually the holder shall, on the due date established by the authorized officer, submit requests for any new, or continued, pesticide usage. The Pesticide-Use Proposal shall cover a 12-month period of planned use. The Pesticide-Use Proposal shall be submitted at least 60 days in advance of pesticide application. Information essential for review shall be provided in the form specified. Exceptions to this schedule may be allowed, subject to emergency request and approval, only when unexpected outbreaks of pests require control measures which were not anticipated at the time a Pesticide-Use Proposal was submitted.

3. Labeling, Laws, and Regulations. Label instructions and all applicable laws and regulations shall be strictly followed in the application of pesticides and disposal of excess materials and containers. No pesticide waste, excess materials, or containers shall be disposed of in any area administered by the Forest Service.

D. ARCHAEOLOGICAL-PALEONTOLOGICAL DISCOVERIES. The holder shall immediately notify the authorized officer of all antiquities or other objects of historic or scientific interest, including but not limited to historic or prehistoric ruins, fossils, or artifacts discovered in connection with the use and occupancy authorized by this permit. The holder shall follow the applicable inadvertent discovery protocols for the undertaking provided in an agreement executed pursuant to section 106 of the National Historic Preservation Act, 54 U.S.C. 306108; if there are no such agreed-upon protocols, the holder shall leave these discoveries intact and in place until consultation has occurred, as informed, if applicable, by any programmatic agreement with tribes. Protective and mitigation measures developed under this clause shall be the responsibility of the holder. However, the holder shall give the authorized officer written notice before implementing these measures and shall coordinate with the authorized officer for proximate and contextual discoveries extending beyond the permit area.

E. NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION (NAGPRA). In accordance with 25 U.S.C. 3002(d) and 43 CFR 10.4, if the holder inadvertently discovers human remains, funerary objects, sacred objects, or objects of cultural patrimony on National Forest System lands, the holder shall immediately cease work in the area of the discovery and shall make a reasonable effort to protect and secure the items. The holder shall

follow the applicable NAGPRA protocols for the undertaking provided in the NAGPRA plan of action or the NAGPRA comprehensive agreement; if there are no such agreed-upon protocols, the holder shall as soon as practicable notify the authorized officer of the discovery and shall follow up with written confirmation of the discovery. The activity that resulted in the inadvertent discovery may not resume until 30 days after the forest archaeologist certifies receipt of the written confirmation, if resumption of the activity is otherwise lawful, or at any time if a binding written agreement has been executed between the Forest Service and the affiliated Indian tribes that adopts a recovery plan for the human remains and objects.

F. PROTECTION OF THREATENED AND ENDANGERED SPECIES, SENSITIVE SPECIES, AND SPECIES OF CONSERVATION CONCERN AND THEIR HABITAT.

1. Threatened and Endangered Species and Their Habitat. The location of sites within the permit area needing special measures for protection of plants or animals listed as threatened or endangered under the Endangered Species Act (ESA) of 1973, 16 U.S.C. 1531 et seq., as amended, or within designated critical habitat shall be shown on a map in an appendix to this permit and may be shown on the ground. The holder shall take any protective and mitigation measures specified by the authorized officer as necessary and appropriate to avoid or reduce effects on listed species or designated critical habitat affected by the authorized use and occupancy. Discovery by the holder or the Forest Service of other sites within the permit area containing threatened or endangered species or designated critical habitat not shown on the map in the appendix shall be promptly reported to the other party and shall be added to the map.

2. Sensitive Species and Species of Conservation Concern and Their Habitat. The location of sites within the permit area needing special measures for protection of plants or animals designated by the Regional Forester as sensitive species or as species of conservation concern pursuant to FSM 2670 shall be shown on a map in an appendix to this permit and may be shown on the ground. The holder shall take any protective and mitigation measures specified by the authorized officer as necessary and appropriate to avoid or reduce effects on sensitive species or species of conservation concern or their habitat affected by the authorized use and occupancy. Discovery by the holder or the Forest Service of other sites within the permit area containing sensitive species or species of conservation concern or their habitat not shown on the map in the appendix shall be promptly reported to the other party and shall be added to the map.

G. CONSENT TO STORE HAZARDOUS MATERIALS. The holder shall not store any hazardous materials at the site without prior written approval from the authorized officer. This approval shall not be unreasonably withheld. If the authorized officer provides approval, this permit shall include, or in the case of approval provided after this permit is issued, shall be amended to include specific terms addressing the storage of hazardous materials, including the specific type of materials to be stored, the volume, the type of storage, and a spill plan. Such terms shall be proposed by the holder and are subject to approval by the authorized officer.

H. CERTIFICATION UPON REVOCATION OR TERMINATION. If the holder uses or stores hazardous materials at the site, upon revocation or termination of this permit the holder shall provide the Forest Service with a report certified by a professional or professionals acceptable to the forest Service that the permit area is uncontaminated by the presence of hazardous materials and that there has not been a release or discharge of hazardous materials upon the permit area, into surface water at or near the permit area, or into groundwater below the permit area during the term of the permit. This certification requirement may be waived by the authorized officer when the Forest Service determines that the risks posed by the hazardous material are minimal. If a release or discharge has occurred, the professional or professionals shall document and certify that the release or discharge has been fully remediated and that the permit area is following all federal, state, and local laws and regulations.

CLEANUP AND REMEDIATION

1. The holder shall immediately notify all appropriate response authorities, including the National Response Center and the authorized officer or the authorized officer's designated representative, of any oil discharge or of the release of a hazardous material in the permit area in an amount greater than or equal to its reportable quantity, in accordance with 33 CFR Part 153, Subpart B, and 40 CFR Part 302. For the purposes of this requirement, "oil" is as defined by section 311(a)(1) of the Clean Water Act, 33 U.S.C. 1321(a)(1). The holder shall immediately notify the authorized officer or the authorized officer's designated representative of any release or threatened release of any hazardous material in or near the permit area which may be harmful to public health

or welfare or which may adversely affect natural resources on federal lands.

2. Except with respect to any federally permitted release as that term is defined under Section 101(10) of CERCLA, 42 U.S.C. 9601(10), the holder shall clean up or otherwise remediate any release, threat of release, or discharge of hazardous materials that occurs either in the permit area or in connection with the holder's activities in the permit area, regardless of whether those activities are authorized under this permit. The holder shall perform cleanup or remediation immediately upon discovery of the release, threat of release, or discharge of hazardous materials. The holder shall perform the cleanup or remediation to the satisfaction of the authorized officer and at no expense to the United States. Upon revocation or termination of this permit, the holder shall deliver the site to the Forest Service free and clear of contamination.

VI. LAND USE FEE AND DEBT COLLECTION

A. LAND USE FEES. The holder shall pay an initial annual land use fee of **$1,822.10** for the period from January 1, 2021 to December 31, 2021, and thereafter on January 1, shall pay an annual land use fee of **$1,822.10**. The annual land use fee shall be adjusted annually using the insert applicable indexing factor.

B. MODIFICATION OF THE LAND USE FEE. The land use fee may be revised whenever necessary to reflect the market value of the authorized use or occupancy or when the fee system used to calculate the land use fee is modified or replaced.

C. FEE PAYMENT ISSUES

1. Crediting of Payments. Payments shall be credited on the date received by the deposit facility, except that if a payment is received on a non-workday, the payment shall not be credited until the next workday.

2. Disputed Fees. Fees are due and payable by the due date. Disputed fees must be paid in full. Adjustments will be made if dictated by an administrative appeal decision, a court decision, or settlement terms.

3. Late Payments

(a) Interest. Pursuant to 31 U.S.C. 3717 et seq., interest shall be charged on any fee amount not paid within 30 days from the date it became due. The rate of interest assessed shall be the higher of the Prompt Payment Act rate or the rate of the current value of funds to the United States Treasury (i.e., the Treasury tax and loan account rate), as prescribed and published annually or quarterly by the Secretary of the Treasury in the Federal Register and the Treasury Fiscal Requirements Manual Bulletins. Interest on the principal shall accrue from the date the fee amount is due.

(b) Administrative Costs. If the account becomes delinquent, administrative costs to cover processing and handling the delinquency shall be assessed.

(c) Penalties. A penalty of 6% per annum shall be assessed on the total amount that is more than 90 days delinquent and shall accrue from the same date on which interest charges begin to accrue.

(d) Termination for Nonpayment. This permit shall terminate without the necessity of prior notice and opportunity to comply when any permit fee payment is 90 calendar days from the due date in arrears. The holder shall remain responsible for the delinquent fees.

4. Administrative Offset and Credit Reporting. Delinquent fees and other charges associated with the permit shall be subject to all rights and remedies afforded the United States pursuant to 31 U.S.C. 3711 et seq. and common law. Delinquencies are subject to any or all the following:

(a) Administrative offset of payments due the holder from the Forest Service.
(b) If in excess of 60 days, referral to the Department of the Treasury for appropriate collection action as provided by 31 U.S.C. 3711(g)(1).
(c) Offset by the Secretary of the Treasury of any amount due the holder, as provided by 31 U.S.C. 3720 et seq.
(d) Disclosure to consumer or commercial credit reporting agencies.

VII. REVOCATION, SUSPENSION, AND TERMINATION

A. REVOCATION AND SUSPENSION. The authorized officer may revoke or suspend this permit in whole or in part:

1. For noncompliance with federal, state, or local law.
2. For noncompliance with the terms of this permit.
3. For abandonment or other failure of the holder to exercise the privileges granted.
4. With the consent of the holder.
5. For specific and compelling reasons in the public interest.

Prior to revocation or suspension, other than immediate suspension under clause VII.B, the authorized officer shall give the holder written notice of the grounds for revocation or suspension and a reasonable period, typically not to exceed 90 days, to cure any noncompliance.

B. IMMEDIATE SUSPENSION. The authorized officer may immediately suspend this permit in whole or in part when necessary to protect public health or safety or the environment. The suspension decision shall be in writing. The holder may request an on-site review with the authorized officer's supervisor of the adverse conditions prompting the suspension. The authorized officer's supervisor shall grant this request within 48 hours. Following the on-site review, the authorized officer's supervisor shall promptly affirm, modify, or cancel the suspension.

C. APPEALS AND REMEDIES. Written decisions by the authorized officer relating to administration of this permit are subject to administrative appeal pursuant to 36 CFR Part 214, as amended. Revocation or suspension of this permit shall not give rise to any claim for damages by the holder against the Forest Service.

D. TERMINATION. This permit shall terminate when by its terms a fixed or agreed upon condition, event, or time occurs without any action by the authorized officer. Examples include but are not limited to expiration of the permit by its terms on a specified date and termination upon change of control of the business entity. Termination of this permit shall not require notice, a decision document, or any environmental analysis or other documentation. Termination of this permit is not subject to administrative appeal and shall not give rise to any claim for damages by the holder against the Forest Service.

E. RIGHTS AND RESPONSIBILITIES UPON REVOCATION OR TERMINATION WITHOUT ISSUANCE OF A NEW PERMIT. Upon revocation or termination of this permit without issuance of a new permit, the holder shall remove all structures and improvements, except those owned by the United States, within a reasonable period prescribed by the authorized officer and shall restore the site to the satisfaction of the authorized officer. If the holder fails to remove all structures and improvements within the prescribed period, they shall become the property of the United States and may be sold, destroyed, or otherwise disposed of without any liability to the United States. However, the holder shall remain liable for all costs associated with their removal, including costs of sale and impoundment, cleanup, and restoration of the site.

VIII. MISCELLANEOUS PROVISIONS

A. MEMBERS OF CONGRESS. No member of or delegate to Congress or resident commissioner shall benefit from this permit either directly or indirectly, except to the extent the authorized use provides a general benefit to a corporation.

B. CURRENT ADDRESSES. The holder and the Forest Service shall keep each other informed of current mailing addresses, including those necessary for billing and payment of land use fees.

C. SUPERSEDED PERMIT. This permit supersedes a special use permit designated City of Huntsville, SAM100301, dated 05/05/1980.

D. SUPERIOR CLAUSES. If there is a conflict between any of the preceding printed clauses and any of the following clauses, the preceding printed clauses shall control.

E. IMPROVEMENT RELOCATION. This authorization is granted with the express understanding that should future location of United States Government-owned improvements or road rights-of-way require the relocation of the holder's improvements, such relocation will be done by, and at the expense of, the holder within a reasonable time as specified by the authorized officer.

F. SURVEYS, LAND CORNERS. The holder shall protect, in place, all public land survey monuments, private property corners, and Forest boundary markers. If any such land markers or monuments are destroyed in the exercise of the privileges permitted by this authorization, depending on the type of monument destroyed, the holder shall see that they are reestablished or referenced in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of the Public Land of the United States," (2) the specifications of the county surveyor, or (3) the specifications of the Forest Service.

Further, the holder shall cause such official survey records as are affected to be amended as provided by law. Nothing in this clause shall relieve the holder's liability for the willful destruction or modification of any Government survey marker as provided at 18 U.S.C. 1858.

G. Noxious Weed and Exotic Plant Prevention and Control: The holder shall be responsible for the prevention and control of noxious weeds and exotic plants arising from the authorized use. For purposes of this clause, noxious weeds and exotic plants include those species recognized as such by Federal, State, or local agency. The holder shall follow prevention and control measures required by Federal, State, or local agency. When determined to be necessary by the Authorized Officer, the holder shall develop a plan for noxious weed and exotic plant prevention and control. These plans must have prior written approval from the Authorized Officer and, upon approval, shall be attached to this permit as an appendix.

THIS PERMIT IS ACCEPTED SUBJECT TO ALL ITS TERMS AND CONDITIONS.

BEFORE ANY PERMIT IS ISSUED TO AN ENTITY, DOCUMENTATION MUST BE PROVIDED TO THE AUTHORIZED OFFICER OF THE AUTHORITY OF THE SIGNATORY FOR THE ENTITY TO BIND IT TO THE TERMS AND CONDITIONS OF THE PERMIT.

ACCEPTED:

CITY OF HUNTSVILLE

By: _____
(Holder Signature)

By: Mayor
(Holder Title)

Date: 3-4-2021

APPROVED:

U.S. DEPARTMENT OF AGRICULTURE
Forest Service

By: _____
WILLIAM E. TAYLOR JR.

Title: Forest Supervisor
(Title)

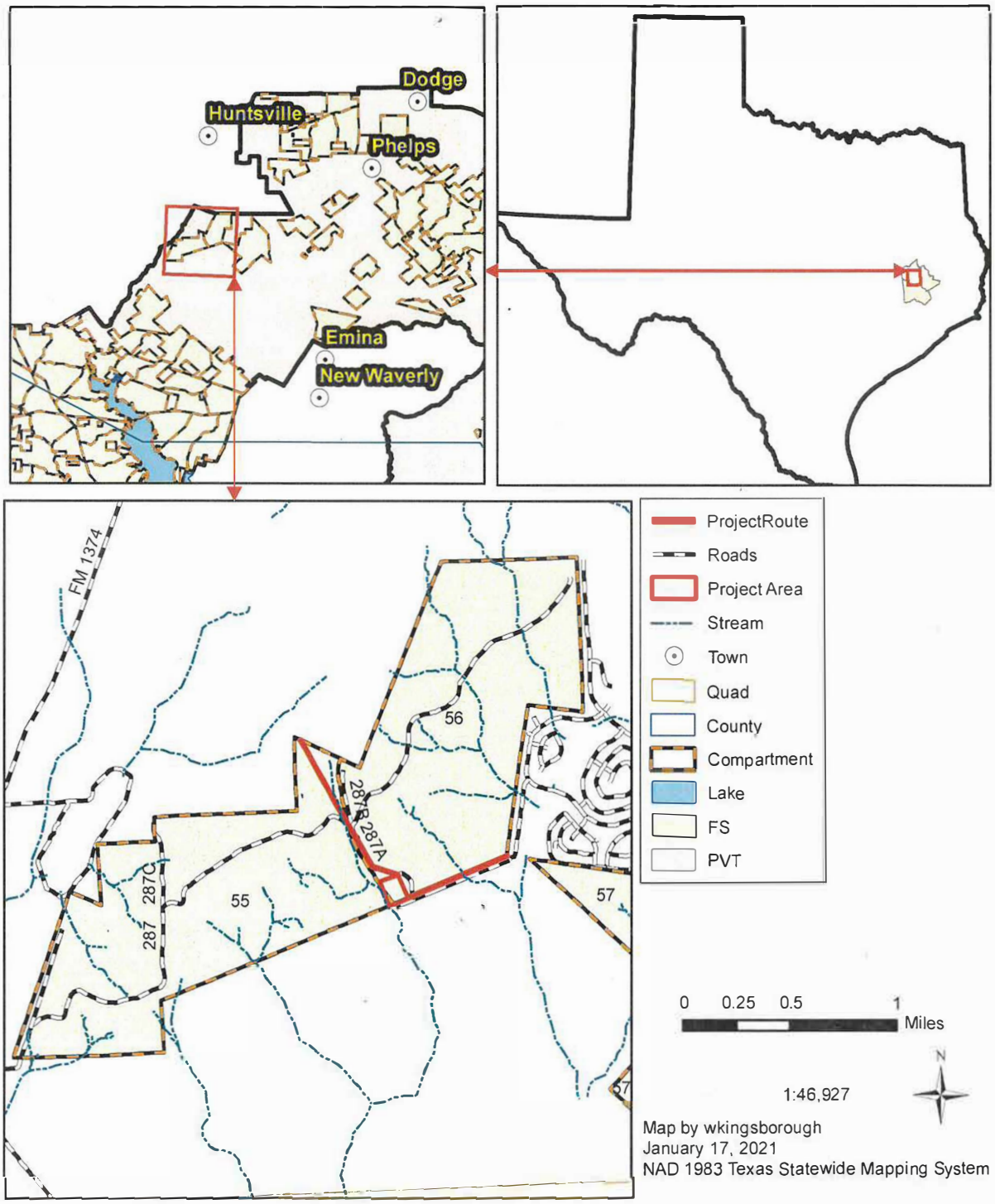
Date: _____

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0082. The time required to complete this information collection is estimated to average one hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and, where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

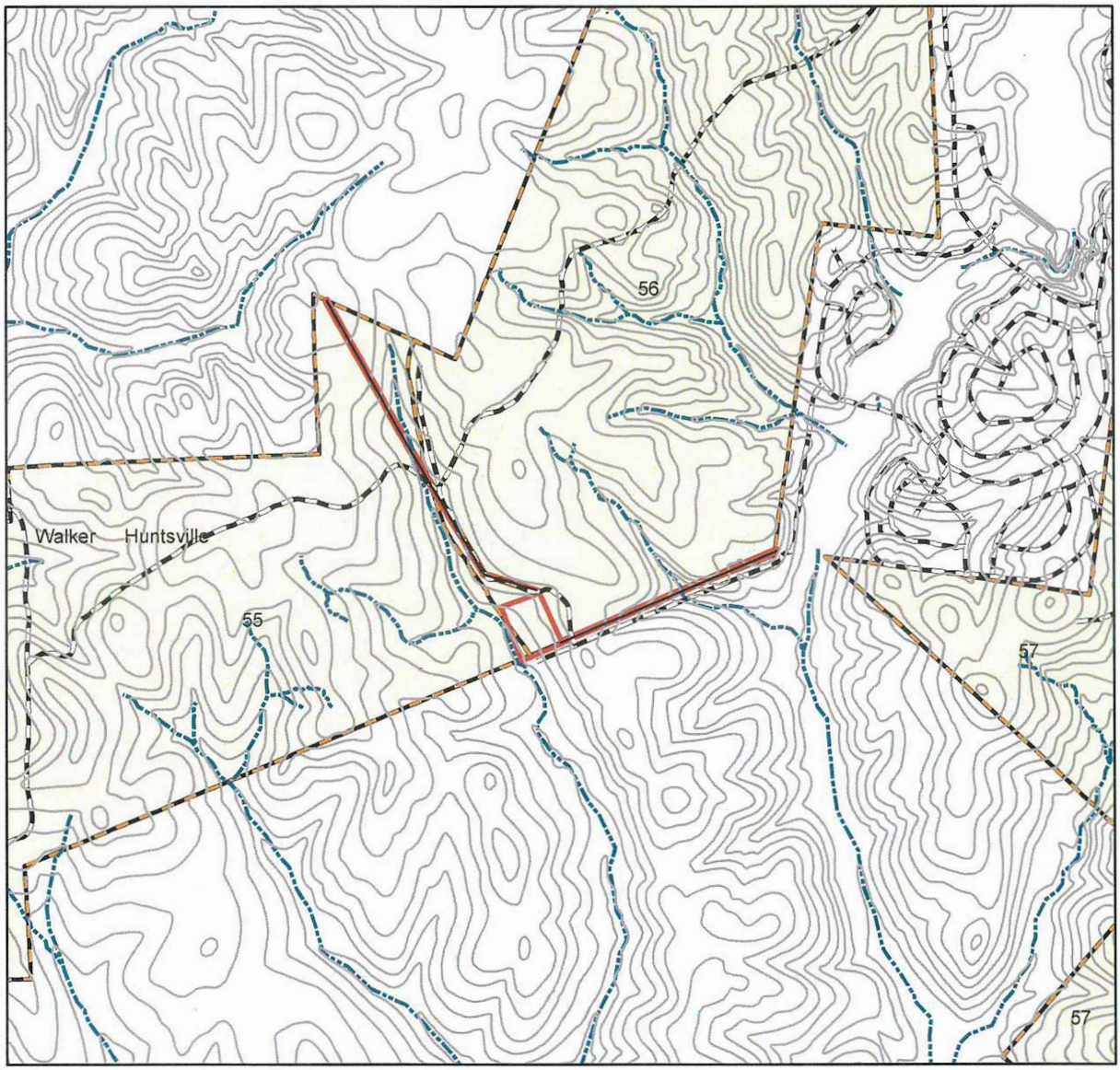
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer. The Privacy Act of 1974 (5 U.S.C. 552a) and the Freedom of Information Act (5 U.S.C. 552) govern the confidentiality to be provided for information received by the Forest Service.

Elkins Lake Treatment Plant and Waterline Permit Reissuances
R2021081304003
Sam Houston National Forest
National Forests & Grasslands in Texas
Walker County, Texas
Figure 1: Vicinity Map



Title Revised BYount Feb 11 2021

Elkins Lake Treatment Permit Reissuance
R2021081304003
Sam Houston National Forest
National Forests & Grasslands in Texas
Huntville 7.5' Quadrangle
Walker County, Texas
Figure 2: Project Location



0 0.25 0.5 1 Miles

0 0.25 0.5 1 Kilometers

1:24,000

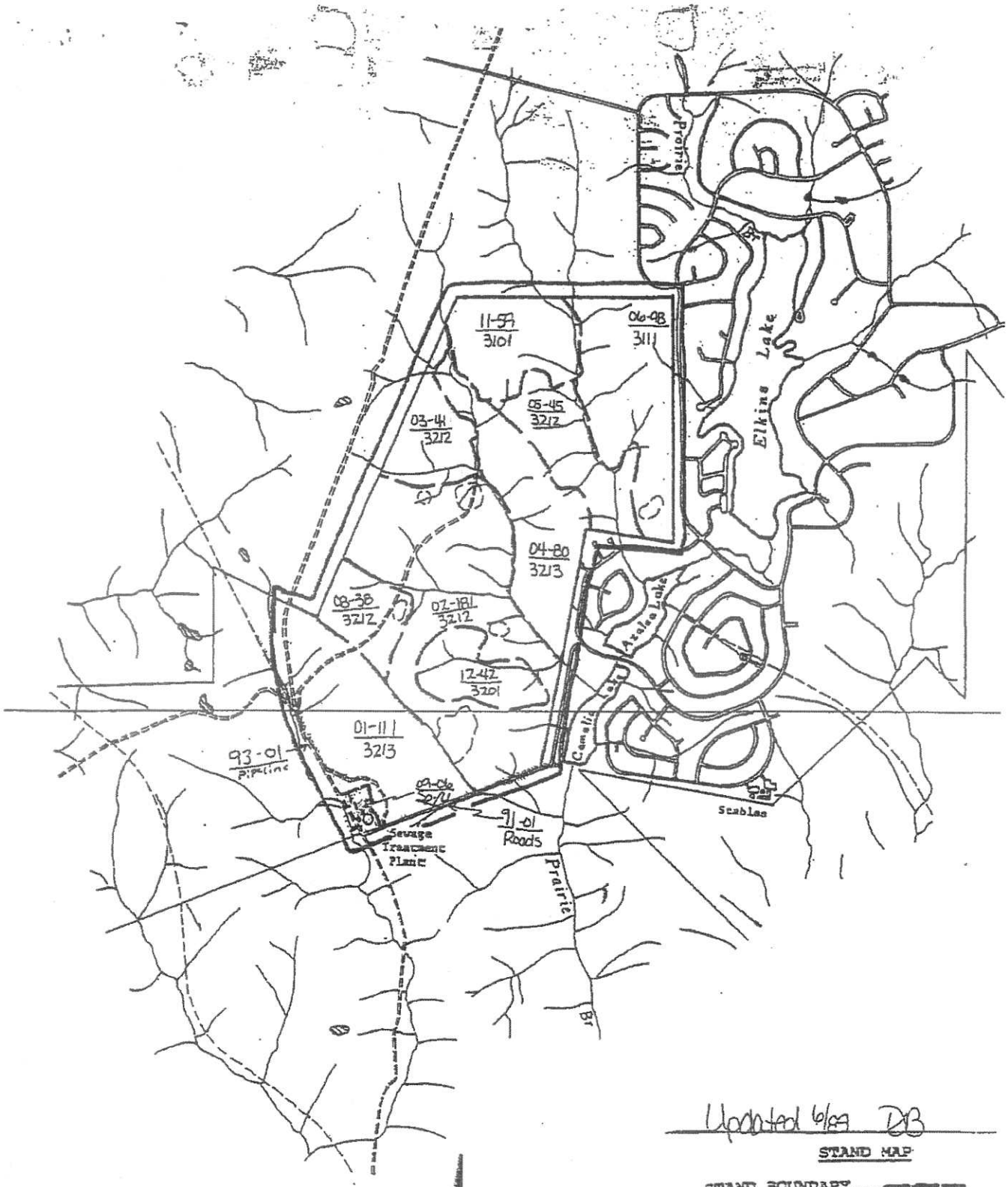
N

Legend

- Contour
- Stream
- Roads
- Project Area
- Quad
- County
- Compartment

Map by wkingsborough
January 17, 2021
NAD 1983 Texas Statewide Mapping System

Title revised BYount 2/11/2021



Updated 6/89 DB

STAND MAP

STAND BOUNDARY.....
STAND NUMBER
STAND ACREAGE — 01-85
STAND CONDITION CLASS 31-01
FOREST TYPE
COMPARTMENT BOUNDARY..
INCLUSION.....

COMPARTMENT NO. 56N

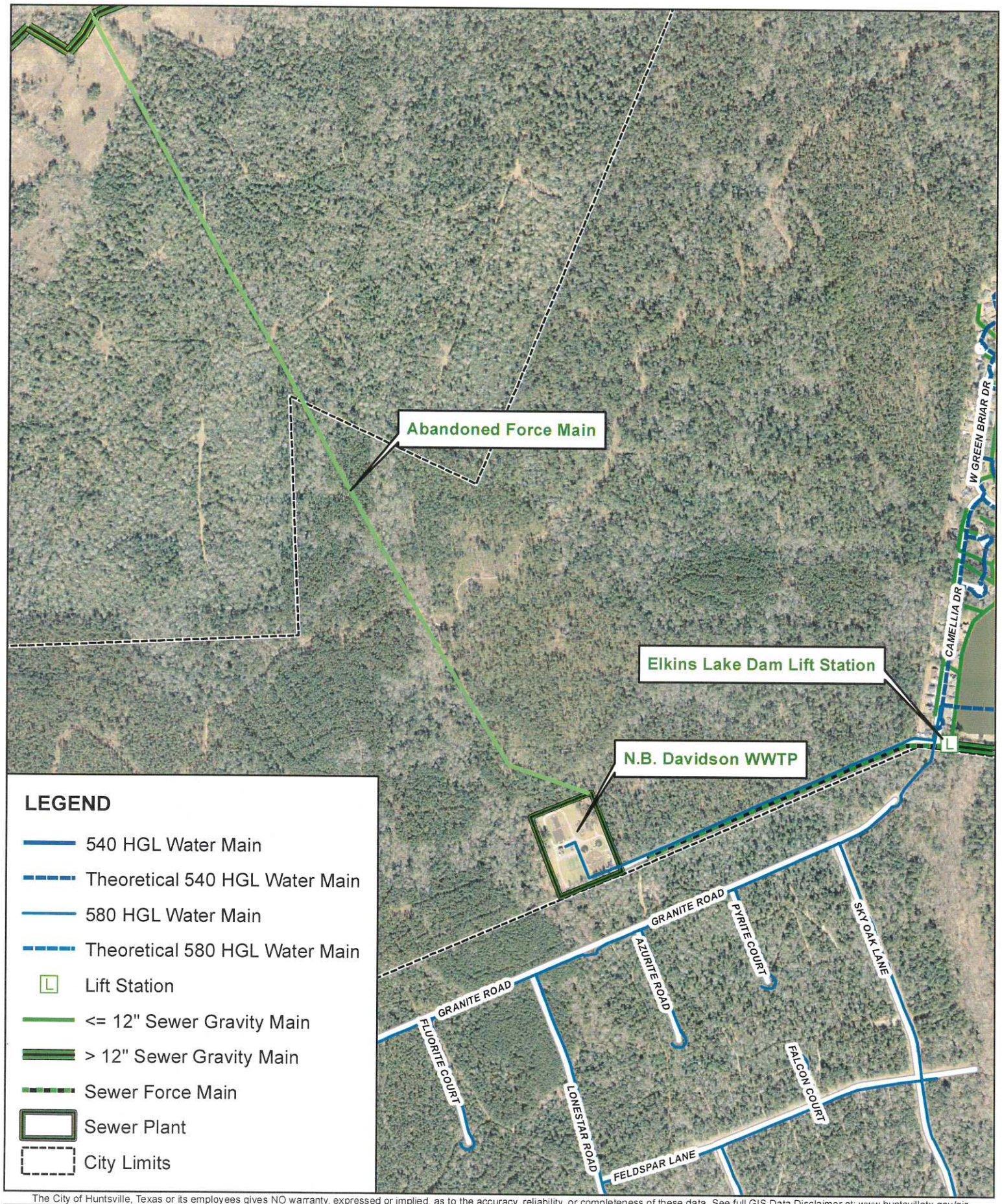
SAM HOUSTON NATIONAL FOREST

RAVEN DISTRICT

SCALE 1:24,000

2.64" = 1 MILE

N



The City of Huntsville, Texas or its employees gives NO warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. See full GIS Data Disclaimer at: www.huntsvilletx.gov/gis

1 in = 1,000 ft

On 8.5 x 11 inch Print

0 495 990 1,980 Feet

On Any Print Size

CREATED DATE: 11/19/2020

CITY OF HUNTSVILLE, TX
ENGINEERING DEPARTMENT / GIS DIVISION

N.B. DAVIDSON WASTE WATER TREATMENT PLANT

Service Layer Credits: The City of Huntsville, TX GIS Division

EROSION CONTROL PLAN
RESTORATION OF DISTURBED AREAS

The permittee agrees to the following provisions:

Except for those areas needed for access and/or production, areas where soil has been disturbed shall not ordinarily be left unseeded for a period of more than 30 days. If it is anticipated the area will be left exposed for more than the 30 day period seeding should occur immediately and not wait until the 30 days have passed. The seeding includes cut-and-fill slopes, ditches (wing, lead-off, etc.), shoulders, and any other exposed areas created by the project. Sites that will be exposed only **one fall growing season** (pit walls, topsoil stockpiles, etc.) will be seeded to an elbon rye grass and wheat mixture at the rates in item number 9 of this attachment. Those other sites that will be exposed from more than one growing season will be seeded to the standard seed mixture in item number 9 of this attachment.

1. Stockpile Soil - During initial clearing for the project the top _N/A___ inches of soil's surface will be removed and stockpiled for use when the site is restored. Remove woody material prior to stockpiling soil. See item 5, Attachment 1, for additional instructions.

   If the site in question is already occupied, the existing stockpiled soil will be used during site restoration. Before applying existing soil material, the site should be ripped and/or disked to a minimum depth of 12 inches before applying stockpiled soil. The site should be ripped and/or disked even if there is no soil material stockpiled on the site.

2. Waterbars/Terraces - During occupancy and restoration slopes or gradients 3% or greater will require waterbars and/or terraces to be constructed and maintained. The Forest Officer will instruct where these structures will be placed.

3. Baled Hay and Silt Fence for Erosion Control - Temporary erosion, sediment and water pollution control measures will be required as described in the attached specifications.

4. Seedbed Preparation - After returning the site to its original contour and forming any needed terraces, spread stockpiled soil evenly over the site, fertilize as in item 5 below and sow the recommended seed mixture on the freshly prepared soil bed. Rip pads and roads prior to spreading topsoil to the depth indicated in Item 1 of this attachment.

5. Fertilize Rates – Fertilize areas **shaded** 90-100% at the following rates:

   100 pound of nitrogen per acre
   250 pounds of phosphorous per acre
   100 pounds of potassium per acre

   Fertilization Rates - Fertilize **all other** disturbed areas at the following rates *:

   100 pound of nitrogen per acre
   100 pounds of phosphorous per acre
   100 pounds of potassium per acre

   For slopes greater than 3% the fertilization rate will be increased to 500 lbs per acre of 13-13-13 to deal with the loss of nutrients for seed germination and success.

   Once seed and fertilizer has been sown, drag-harrow lightly taking care not to cover seed too deeply. Approximately 1/4 inch of soil should cover the seed.

   The Soils Scientist may determine alternate fertilization rates in a site specific analysis report.

6. Mulching - The use of Certified Weed-Free hay, pine straw, or commercial mulch will be necessary on disturbed areas. Mulch will be applied to the entire area during periods of drought (normally 6/15-10/1). Mulch should be tied down with woven nets, asphalt tackifier, synthetics, or disked lightly into the soil. Erosion control blankets

*Rates are in pounds of chemical per acre. It takes 300 lbs. of 13-13 -13 to equal the rates specified above.

will be used on cut or fill slopes which cannot be shaped to a 3:1 gradient or less. The Forest Officer may require hydramulch in some cases if the determination has been made that it is needed for resource protection.

7. When instructed by the Forest Officer revegetated areas will be fenced to exclude livestock (See attached fencing specifications).

8. It is the responsibility of the permittee to establish a permanent vegetative cover on all disturbed areas where bare mineral soil is exposed. The following are procedures recommended and commonly used to accomplish this reclamation.

9. Seed species, Rates, and Seasons -

Heavier rates can be used. It is always cheaper to plant more seed than to have to replant. These are minimum rates.

In case of seeding failure, the permittee will reseed following the same recommendations until successful establishment of cover is achieved. For problem areas the Forest Service Soil Scientist and Botanist will be contacted for further input.

Use the following grasses and legumes:

RECOMMENDATIONS ON NATIONAL FORESTS

January through April

Species	Rate per acre In Mixture
Annual Rye	50 lbs.
Wheat	20 lbs.
Hairy Vetch (Innoculated)	10 lbs.

May through August

Species	Rate per acre In Mixture
Brown Millet	30 lbs.
Pearl Millet	30 lbs.
Cowpea	10 lbs.

September through December

Species	Rate per acre In Mixture
Annual Rye	50 lbs.
Wheat	20 lbs.
Hairy Vetch (Innoculated)	10 lbs.

It is desirable to use this mix. However, if certain species are not available contact the Forest Officer and substitutions can be made.

Use 1-1/2 to 2-1/2 tons of mulch per acre to a depth of 1 - 3 inches over the disturbed area.

Use bales of pine straw instead of baled hay for use in wing ditches and water bars. If hay is used, it must be certified weed free.

From **September 16 through February 28** the annuals Elbon Rye and Wheat will be added to the mixture at the rate of 120 lbs. per acre each.

RECOMMENDATIONS ON NATIONAL GRASSLANDS
Yearlong

(Use all of the following grasses and legumes.)

Species	Rate per acre In Mixture
Little bluestem	3.4 lbs.
Big bluestem	6.0 lbs.
Indiangrass	4.5 lbs.
Switchgrass	2.0 lbs.
Sideoats grama	4.5 lbs.
Plains bluestem	1.8 lbs.
Cowpea	4.0 lbs.

Green Spangletop at the rate of 4.0 lbs. can be used instead of one of the perennials if that perennial is unavailable.

It is desirable to use this mix. However, if certain species are not available contact the Forest Officer and substitutions can be made.

Use 1-1/2 to 2-1/2 tons of mulch per acre to a depth of 1 - 3 inches over the disturbed area.

From **September 16 through February 28** the annuals Elbon Rye and Wheat will be added to the mixture at the rate of 120 lbs. per acre each.

10. On National Forests, reclamation may be approved not earlier than one year following the successful establishment of vegetative cover. On the National Forest vegetative cover over at least 70% of the entire disturbed area will be considered successful establishment, if no gullies or other erosion related problems exist.

    On the National Grasslands satisfactory vegetative cover will be considered 70% vegetative cover with native species after two growing seasons and no gullies or other erosion related problems exist. All drilling/production related equipment or rubbish must be removed prior to Forest Service acceptance of the site as restored.

11. The permittee is responsible for successful restoration regardless of weather or other natural factors.

12. Performance Bonds (if applicable) will not be released until satisfactory reclamation is complete.

NFGTX SEED MIX	(VER 03/2020)
JANUARY-MAY and SEPTEMBER-DECEMBER	**JUNE-AUGUST**
WHEAT 50 LBS	BROWN MILLET 20 LBS
LITTLE BLUESTEM 2 LBS	PEARL MILLET 20 LBS
"OK SELECT", "COASTAL PLAINS", OR "CATAHOULA"	
PARTRIDGE PEA 2 LBS (Innoculated)	
"COMMANCHE" OR "LARK"	
INDIANGRASS 1 LBS	
"CHEYENNE" OR "LOMETA"	
SAND LOVEGRASS 0.5 LBS	
"MASON"	
ASHE SUNFLOWER 1 LBS	
"CAJUN SUNRISE"	
SWITCHGRASS 0.5 LBS	
"BLACKWELL"	
SPOTTED BEE BALM 1 LBS	
LANCELEAF COREOPSIS 1 LBS	
INDIAN BLANKET 1 LBS	
Seeding rates are pure live seed (PLS) per acre	
WHEAT is Triticum aestivum	
Spotted bee balm is Monarda punctata. Can also substitute lemon bee balm-Monarda citriodora	
Lanceleaf Coreopsis is Coreopsis lanceolata	
Indian Blanket is Gaillardia pulchella	
Sand Lovegrass is Eragrostis trichodes	
Ashe sunflower is Helianthus mollis	
Special Instructions:	
Project areas containing greater than 3% slope will require site specific analysis.	
Fertilizer: Fertilization rates will be set at 100 LBS/acre of 12-12-12	
Mulch:1-1/2 to 2-1/2 tons of mulch applied to a depth of 1-3 inches (If bare soil).	
Use bales of pine straw instead of baled hay for use in wing ditches and water bars.	
CERTIFIED VENDORS	
Bamert Seed 1897 County Road 1018 Muleshoe, TX 79347 1-800-262-9892	Turner Seed 210 County Road 151 Breckenridge, TX 76424 1-800-722-8616
Roundstone Native Seed Co. 9764 Raider Hollow Rd. Upton, Ky. 42784 1-888-531-2323	Douglass King Seed Co. 4627 Emil St. San Antonio, TX 78219 1-210-661-4191
For substitutions or technical guidance: Thomas Philipps, Forest Botanist- US Forest Service Phone: 936-639-8514 Email: thomas.philipps@usda.gov	

NFGTX ROADSIDE SEED MIX

(02/2020)

JAN	FEB	MARCH	APRIL	MAY
ANNUAL RYE 30 LBS	ANNUAL RYE 30 LBS	ANNUAL RYE 30 LBS	ANNUAL RYE 30 LBS	BROWN MILLET 30 LBS
LITTLE BLUESTEM 10 LBS	LITTLE BLUESTEM 10 LBS	LITTLE BLUESTEM 10 LBS	LITTLE BLUESTEM 10 LBS	PEARL MILLET 30 LBS
PARTRIDGE PEA 10 LBS	PARTRIDGE PEA 10 LBS	PARTRIDGE PEA 10 LBS	PARTRIDGE PEA 10 LBS	
(INNOCULATED)	(INNOCULATED)	(INNOCULATED)	(INNOCULATED)	
BLACK EYED SUSAN 2 LBS	BLACK EYED SUSAN 2 LBS	BLACK EYED SUSAN 2 LBS	BLACK EYED SUSAN 2 LBS	
SPOTTED BEE BALM 5 LBS	SPOTTED BEE BALM 5 LBS	SPOTTED BEE BALM 5 LBS	SPOTTED BEE BALM 5 LBS	
LANCELEAF COREOPSIS 10 LBS	LANCELEAF COREOPSIS 10 LBS	LANCELEAF COREOPSIS 10 LBS	LANCELEAF COREOPSIS 10 LBS	
INDIAN BLANKET 10 LBS	INDIAN BLANKET 10 LBS	INDIAN BLANKET 10 LBS	INDIAN BLANKET 10 LBS	

JUNE	JULY	AUGUST	SEPT	OCT
BROWN MILLET 30 LBS	BROWN MILLET 30 LBS	BROWN MILLET 30 LBS	ANNUAL RYE 30 LBS	ANNUAL RYE 30 LBS
PEARL MILLET 30 LBS	PEARL MILLET 30 LBS	PEARL MILLET 30 LBS	LITTLE BLUESTEM 10 LBS	LITTLE BLUESTEM 10 LBS
			PARTRIDGE PEA 10 LBS	PARTRIDGE PEA 10 LBS
			(INNOCULATED)	(INNOCULATED)
NOV	**DEC**		BLACK EYED SUSAN 2 LBS	BLACK EYED SUSAN 2 LBS
ANNUAL RYE 30 LBS	ANNUAL RYE 30 LBS		SPOTTED BEE BALM 5 LBS	SPOTTED BEE BALM 5 LBS
LITTLE BLUESTEM 10 LBS	LITTLE BLUESTEM 10 LBS		LANCELEAF COREOPSIS 10 LBS	LANCELEAF COREOPSIS 10 LBS
PARTRIDGE PEA 10 LBS	PARTRIDGE PEA 10 LBS		INDIAN BLANKET 10 LBS	INDIAN BLANKET 10 LBS
(INNOCULATED)	(INNOCULATED)			
BLACK EYED SUSAN 2 LBS	BLACK EYED SUSAN 2 LBS			
SPOTTED BEE BALM 5 LBS	SPOTTED BEE BALM 5 LBS			
LANCELEAF COREOPSIS 10 LBS	LANCELEAF COREOPSIS 10 LBS			
INDIAN BLANKET 10 LBS	INDIAN BLANKET 10 LBS			

Annual rye is Lolium multiflorum

Spotted bee balm is Monarda punctata. Can also substitute lemon bee balm-Monarda citriodora

Lanceleaf Coreopsis is Coreopsis lanceolata

Indian Blanket is Gaillardia pulchella

Special Instructions:

Project areas containing greater than 3% slope will require site specific analysis.

Fertilizer: Fertilization rates will be determined by site specific analysis performed by the Forest Soil Scientist

12-12-12 is standard unless otherwise dictated

Mulch:1-1/2 to 2-1/2 tons of mulch applied to a depth of 1-3 inches.

Use bales of pine straw instead of baled hay for use in wing ditches and water bars.

AVAILABLE VENDORS:

Bamert Seed
1897 County Road 1018
Muleshoe, TX 79347
1-800-262-9892

Turner Seed
210 County Road 151
Breckenridge, TX 76424
1-800-722-8616

East Texas Seed Co.
P.O. Box 569
Tyler, TX 75710
1-903-597-6637

Stock Seed Farms 28008 Mill Rd. Murdock, NE 68407 1-800-759-1520

Roundstone Native Seed 9764 Raider Hollow Rd. Upton, Ky. 42784 888-531-2353

Digester

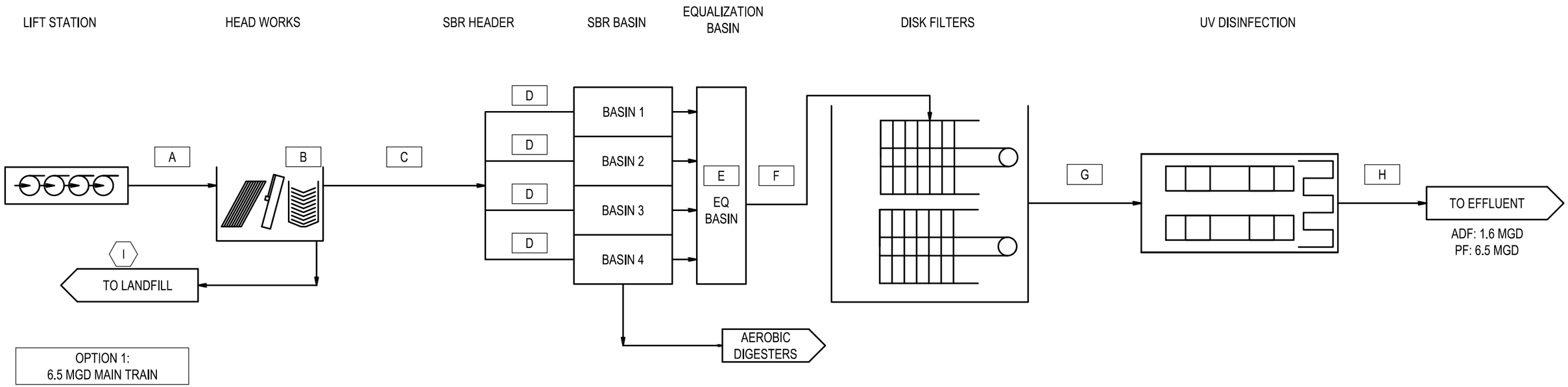
Aerobic Digestor Internal Diameter (ID)	45	ft
Aerobic Digester Depth(h)	13	ft
Volume of the digester	20675.61	ft^3

Solids generated at		
100% ADF	2,719.25	lbs/day
75% ADF	2039.43	lbs/day
50%ADF	1359.625	lbs/day
25%ADF	679.81	lbs/day

Mixed liquor suspended solids operating range at		
Design flow	4500	mg/l
Projected actual flow	2000	mg/l

ATTACHMENT – R
WATER BALANCE

Note: No land application. Water Balance is not applicable.



FLOW	UNITS	LS TO DRUM SCREEN	DRUM SCREEN TO GRIT CHAMBER	GRIT CHAMBER TO SBR HEADER	SBR HEADER TO SBR BASINS	SBR BASINS TO EQ BASIN	EQ BASIN TO DISK FILTER	DISK FILTER TO UV	UV TO EFFLUENT
		A	B	C	D	E	F	G	H
PWWF	GPM	4,511.00	4,511.00	4,511.00	1,127.75	4,511.00	4,511.00	4,511.00	4,511.00
ADF	GPM	1,110.40	1,110.40	1,110.40	277.60	1,110.40	1,110.40	1,110.40	1,110.40
BOD5	MG/L	200.00	200.00	200.00	200.00	10.00	10.00	10.00	10.00
BOD5	LB	2,669.00	2,669.00	2,669.00	2,669.00	133.45	133.45	133.45	133.45
TSS	MG/L	200.00	200.00	188.00	188.00	15.00	15.00	5.00	5.00
TSS	LB	2,669.00	2,669.00	2,509.00	2,509.00	2,509.00	200.18	26.69	26.69
NH3	MG/L	45.00	45.00	45.00	45.00	2.00	2.00	2.00	2.00
NH3	LB	601.00	601.00	601.00	601.00	26.71	26.71	26.71	26.71
P TOTAL	MG/L	7.00	7.00	7.00	7.00	0.50	0.50	0.50	0.50
P TOTAL	LB	93.40	93.40	93.40	93.40	6.67	6.67	6.67	6.67

NB DAVIDSON WWTP EXPANSION & IMPROVEMENTS

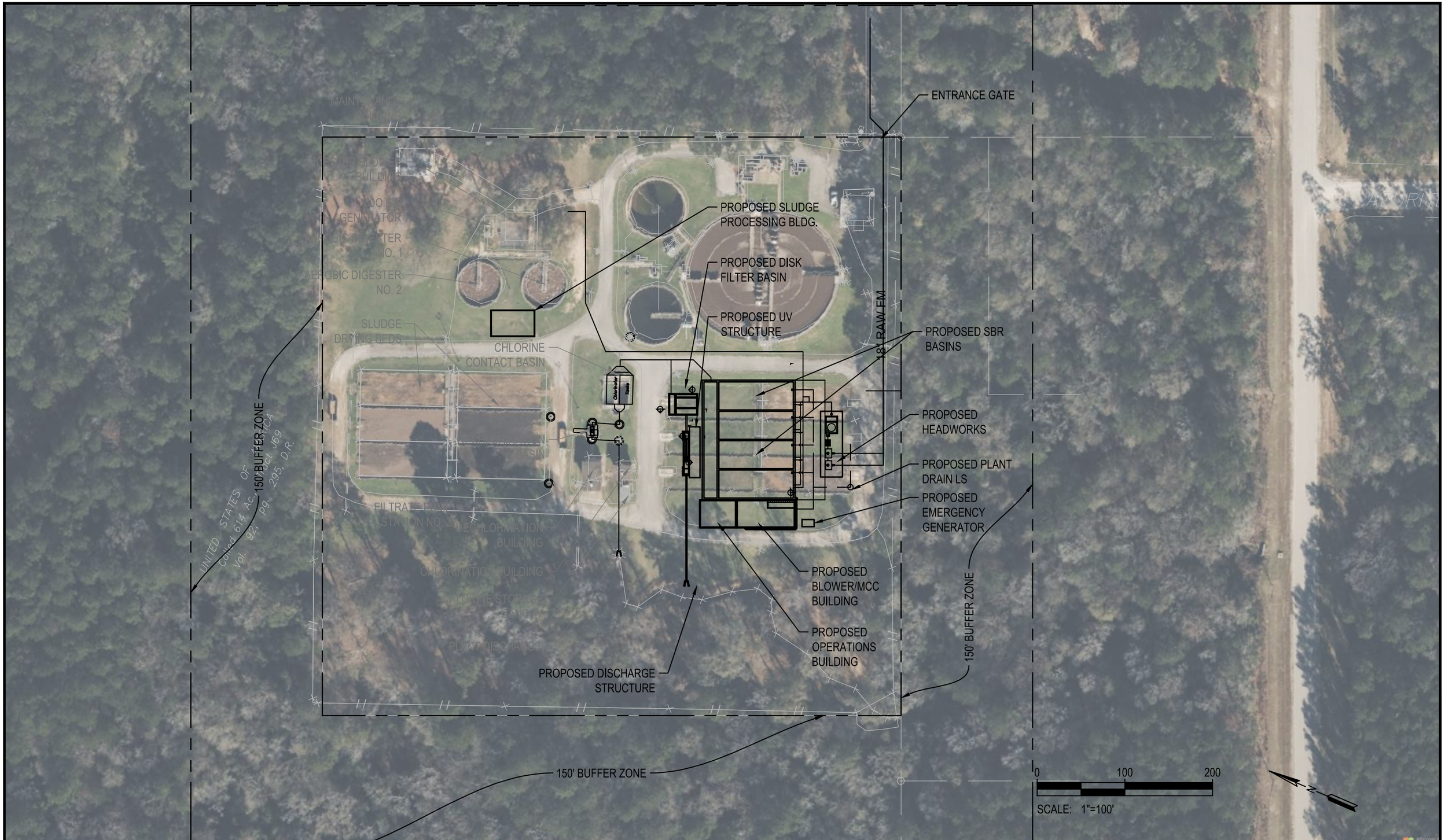
CITY OF HUNTSVILLE
1859 Camellia Dr,
Huntsville, Texas

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
2925 Briarpark Drive
Suite 400
Houston, TX 77042
Tel 713-266-6900 www.lan-inc.com

PROCESS FLOW DIAGRAM - TREATMENT ALTERNATIVE

Job No. 128-10028-000
Date 12/22/2023

Exhibit: 5-A



NB DAVIDSON WWTP EXPANSION & IMPROVEMENTS

CITY OF HUNTSVILLE
1859 Camellia Dr,
Huntsville, Texas

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
2925 Briarpark Drive
Suite 400
Houston, TX 77042
Tel 713-266-6900 www.lan-inc.com

PROPOSED SITE PLAN

Job No.	128-10028-000	Exhibit: 5
Date	03/01/2024	

{PW Path} P:\128\128-10028-000\4-0-Production-Working\4-2-Graphics-Exhibits\NB Davidson WWTP_07_Prop Overall Site Plan.dwg

Abesha Michael

From: Thomas-Harris, Jordon <JTThomas-Harris@lan-inc.com>
Sent: Wednesday, October 9, 2024 4:16 PM
To: Abesha Michael
Cc: kkembro@huntsvilletx.gov; 128-10028-000-mailbox; Pindi, Pravallika
Subject: RE: Application to Amend Permit No. WQ0010781002 - Notice of Deficiency Letter
Attachments: 10053 Sheet 6 - Bilingual Notice Requirements.pdf; AFFECTED LANDOWNERS INFORMATION_R1.docx; AFFECTED LANDOWNERS INFORMATION_Cross Reference_R1.docx; AFFECTED LANDOWNERS INFORMATION_Avery Format 1.docx; 10053 Sheet 12 - Affected Landowners.pdf; Attachment Q - AFFECTED LANDOWNERS MAP_R1.pdf; NBD Permit_TCEQ Comments_wq0010781002-NOD1_NORI Corrections.pdf

Hi Abesha,

Please see attached for the following:

1. Sheet 6 identifying Spanish as the required language.
2. Revised landowners map, cross-reference, and labels.
3. Affected Landowners mailing labels.
4. Sheet 12 including the source of the landowners' names and mailing addressed.
5. NORI corrections.
6. NORI translation in a word format.

Thank you,

Jordon T. Thomas-Harris, PE
Associate, Team Leader – Water/Wastewater

3700 West Sam Houston Parkway South, Suite 400 • Houston, TX 77042
T 713.266.6900 **D** 713.821.0379
www.lan-inc.com • JTThomas-Harris@lan-inc.com

From: Thomas-Harris, Jordon <jtthomas-harris@lan-inc.com>
Sent: Monday, September 30, 2024 3:01 PM
To: Abesha Michael <Abesha.Michael@tceq.texas.gov>; kkembro@huntsvilletx.gov
Subject: RE: Application to Amend Permit No. WQ0010781002 - Notice of Deficiency Letter

Abesha,

Thank you for the comments. We will revise and resubmit.

Best Regards,

Jordon T. Thomas-Harris, PE
Associate, Team Leader – Water/Wastewater

3700 West Sam Houston Parkway South, Suite 400 • Houston, TX 77042
T 713.266.6900 **D** 713.821.0379
www.lan-inc.com • JTThomas-Harris@lan-inc.com

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Monday, September 30, 2024 2:41 PM
To: kkembro@huntsvilletx.gov
Cc: Thomas-Harris, Jordon <jtthomas-harris@lan-inc.com>
Subject: Application to Amend Permit No. WQ0010781002 - Notice of Deficiency Letter

Dear Ms. Kembro:

The attached Notice of Deficiency letter sent on September 30, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by October 14, 2024.

Thank you,

Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912; c: 346-802-8446
Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

CONFIDENTIALITY AND PRIVILEGE NOTICE: This email communication, including any and all attachments, (collectively, this "Communication"), is intended solely for the person(s) to whom it is addressed. This Communication may contain information that is privileged, confidential and/or proprietary. Any unauthorized use, disclosure or copying of this Communication is strictly prohibited. If you have received this Communication in error, please contact the sender immediately and destroy any and all copies of this Communication.

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 30, 2024

Ms. Kimberly Kembro, P.E.
Assistance Public Wroks Director
City of Huntsville
488 State Highway 75 North
Huntsville, Texas 77320

RE: Application to Amend Permit No.: WQ0010781002 (EPA I.D. No. TX0022373)
Applicant Name: City of Huntsville (CN600745566)
Site Name: N B Davidson South WWTP (RN101917961)
Type of Application: Major amendment with renewal

VIA EMAIL

Dear Ms. Kembro:

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

1. Section 8, item E5 on page 6 of the administrative report: This item was left blank. Please complete this page and submit a revised page 6 indicating the required type of language.

2. Affected Landowners Information, item B on page 12 of the application: Thank you for the cross-referenced mailing. However, the affected landowners map shows that 49 affected landowners, but the list shows 52. Please update the affected landowners map or the cross-reference and the labels accordingly.

3. Affected Landowners Information, item C on page 12 of the application: Thank you for affected landowners mailing labels. Please **email** the affected landowner mailing labels a Microsoft Word Avery 5160 label format (3 columns across, 10 columns down) according to the mailing list. To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included with the list, no punctuation.

4. Affected Landowners Information, item D on page 12 of the application: This item was left blank. However, the source of the landowners' name and mailing addresses is required. Please complete and submit a revised page.

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

APPLICATION. City of Huntsville, 1212 Avenue M, Huntsville, Texas 77340, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781002 (EPA I.D. No. TX0022373) to authorize an increase in 2-hour peak flow from 4.0 MGD to 6.5 MGD, conversion from CAS process to SBR process. The domestic wastewater treatment facility is located approximately 3.5 miles south of the interstsection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles southwest of the Elkins Lake Dam south of the city of Huntsville, near the city of Huntsville, in Walker County, Texas 77340. The discharge route is from the plant site to to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin (Pending – RWA confirmation). TCEQ received this application on September 19, 2024. The permit application will be available for viewing and copying at City of Huntsville Service Center, 448 State Highway 75 North, Huntsville, in Walker County, Texas, 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=-95.552222,30.645277&level=18

duplicated

Further information may also be obtained from City of Huntsville at the address stated above or by calling Ms. Stacy Lawler, Westwater Superintendent, City of Huntsville, at 936-294-5926.

Mr.

*wastewater

93

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 October 14, 2024 If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4912 or by email at abesha.michael@tceq.texas.gov.

Sincerely,

Abesha Michael

Abesha Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Enclosure(s)

cc: Mr. Jordan T. Thomas Harris, P.E., 3700 West Sam Houston Parkway, South, Suite 400, Houston, Texas 77042

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, Tx,77320

Phone No.: 936-294-5926 E-mail Address: wlawler@huntsvilletx.gov

D. Public Viewing Information

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

Public building name: City of Huntsville Service Center

Location within the building: Lobby

Physical Address of Building: 448 State Highway 75 N

City: Huntsville County: Walker

Contact (Last Name, First Name): Stacy Lawler

Phone No.: 936-294-5926 Ext.: N/A

E. Bilingual Notice Requirements

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

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

   ☒ Yes ☐ No

   If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

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

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Walker County Appraisal District website; https://walkercad.org/

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

☐ Yes ☒ No

AFFECTED LANDOWNERS' INFORMATION

APPLICANT: City of Huntsville - N.B. Davidson WWTP

1. PROPERTY No. 1
   U S FORESTRY
   Cotton Creek Cemetery Rd, Huntsville, TX, 77340
   Unlisted

2. PROPERTY No. 2
   GRANITE RD, Huntsville, TX, 77340
   1 TEXAS GRAND RANCH PROPERTY OWNERS ASSOCIATION
   % GOODWIN & CO PO BOX 203310
   AUSTIN, TX, 78720

3. PROPERTY No. 3
   GRANITE RD, Huntsville, TX, 77340
   NAH TAHPLAH D
   PO BOX 311025
   HOUSTON, TX, 77231-3025

4. PROPERTY No. 4
   GRANITE RD, Huntsville, TX, 77340
   ALI AHSAN & HINA
   27215 CHESHIRE EDGE LN
   KATY, TX, 77494-6263

5. PROPERTY No. 5
   GRANITE RD, Huntsville, TX, 77340
   WALKER MARVETTA M
   2003 COVENT GARDEN STA
   HOUSTON, TX, 77045-2533

6. PROPERTY No. 6
   114 AZURITE RD, Huntsville, TX, 77340
   GOMEZ GERMAN
   5930 PEBBLE SPRINGS DR
   HOUSTON, TX, 77066-2313

7. PROPERTY No. 7
   LONESTAR RD, Huntsville, TX, 77340
   LAKEY OWEN THOMAS
   1057 REVEREND B J LEWIS DR
   HOUSTON, TX, 77088-616

8. PROPERTY No.8
   114 AZURITE RD, Huntsville, TX, 77340
   MASON KIRK & DEBORAH
   114 AZURITE RD PMB 182
   HUNTSVILLE, TX, 77340-1428

9. PROPERTY No.9
   LONESTAR RD, Huntsville, TX, 77340
   AL-AGHA & LAURA SHAHEEN REVOCABLE TRUST
   9630 FM 1488 ROAD
   MAGNOLIA, TX, 77354

10. PROPERTY No.10
    AZURITE RD, Huntsville, TX, 77340
    BRUBECK RICK
    24518 EMERALD POOL FALLS DR
    TOMBALL, TX, 77375

11. PROPERTY No.11
    LONESTAR RD, Huntsville, TX, 77340
    NGUYEN BRIAN & THU THUY
    640 GORDY RD
    BACLIFF, TX, 77518-2150

12. PROPERTY No.12
    AZURITE RD, Huntsville, TX, 77340
    REXROAD JEFFREY PAUL & DANESE B
    301 FALCON LAKE DR
    FRIENDSWOOD, TX, 77546-5465

13. PROPERTY No.13
    LONESTAR RD, Huntsville, TX, 77340
    DAYA WILLIAM BURGOS & MARIEL DIPLAN RODRIGUEZ
    4811 ISLA CANELA LN
    LEAGUE CITY, TX, 77573-6488

14. PROPERTY No.14
    130 AZURITE RD, Huntsville, TX, 77340
    LEISEY JEFFREY DAVID & CHAMROEUN NICOLE
    130 AZURITE RD
    HUNTSVILLE, TX, 77340

15. PROPERTY No.15
    LONESTAR RD, Huntsville, TX, 77340

DAYA WILLIAM BURGOS & MARIEL DIPLAN RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY, TX, 77573-6488

16. PROPERTY No.16
    FELDSPAR LANE, Huntsville, TX, 77340
    NGUYEN TRANG V
    7007 PEARL TERRACE LN
    RICHMOND, TX, 77469-1892

17. PROPERTY No.17
    1 FELDSPAR LANE, Huntsville, TX, 77340
    EGEMEARI EMMANUEL OSEIYAW & MIRIAM K
    12702 SPRUCE CIRCLE
    TOMBALL, TX, 77375-2060

18. PROPERTY No.18
    131 FELDSPAR LN, Huntsville, TX, 77340
    SEDILLO GEORGE JR & GUADALUPE MARTINEZ
    131 FELDSPAR
    HUNTSVILLE, TX, 77340

19. PROPERTY No.19
    FELDSPAR LANE, Huntsville, TX, 77340
    I TEXAS GRAND RANCH LLC
    183 WATER ST
    WILLIAMSTOWN, MA, 01267-2830

20. PROPERTY No.20
    FELDSPAR LANE, Huntsville, TX, 77340
    I TEXAS GRAND RANCH LLC
    183 WATER ST
    WILLIAMSTOWN, MA, 01267-2830

21. PROPERTY No.21
    INSCRIPTION LANE, Huntsville, TX, 77340
    QUINONES MIGUEL A & SUSAN
    20727 WINDY BRIAR LN
    SPRING, TX, 77379-8495

22. PROPERTY No.22
    936 LONESTAR RD, Huntsville, TX, 77340
    WARE RONALD DOUGLAS
    936 LONESTAR RD

HUNTSVILLE, TX, 77340

23. PROPERTY No.23
    205 INSCRIPTION LANE, Huntsville, TX, 77340
    TEMPLETON JOSHUA WELLINGTON & AMELIA
    205 INSCRIPTION LANE # 1174
    HUNTSVILLE, TX, 77340

24. PROPERTY No.24
    LONESTAR RD, Huntsville, TX, 77340
    SCALES STEVEN LANE & JULIE A
    928 LONESTAR RD
    HUNTSVILLE, TX, 77340

25. PROPERTY No.25
    195 INSCRIPTION LANE, Huntsville, TX, 77340
    WARE MARK JAMES & SUSAN YVETTE
    WARE 24915 PIKECREST DR
    SPRING,TX,77389

26. PROPERTY No. 26
    928 LONESTAR RD, Huntsville, TX, 77340
    SCALES STEVEN L & JULIE ANN
    928 LONESTAR RD
    HUNTSVILLE, TX, 77340-1068

27. PROPERTY No. 27
    Inscription Ln, Huntsville, TX, 77340
    NADDY RICHARD IV & ANGELA
    P O BOX 9495
    Huntsville, TX, 77340

28. PROPERTY No. 28
    LONESTAR RD, Huntsville, TX, 77340
    VETERANS LAND BOARD OF THE STATE OF TEXAS
    1 CORPORATE DRIVE SUITE 360
    LAKE ZURICH, IL, 60047

29. PROPERTY No. 29
    INSCRIPTION LANE, Huntsville, TX, 77340
    WITHEREL MATTHEW LOUIS & BETH
    2007 WILLOWLAKE DR
    HOUSTON, TX, 77077

30. PROPERTY No. 30
    LONESTAR RD, Huntsville, TX, 77340
    CARDONA JORGE ARTURO & VANESA M
    38549 WINDING WALK DR
    MURRIETA, CA, 92563-0805

31. PROPERTY No. 31
    INSCRIPTION LANE, Huntsville, TX, 77340
    DE FELICE COREY & ITZIAR IRIBERRI
    5506 POINTED LEAF DR
    MISSOURI CITY, TX, 77459-1686

32. PROPERTY No. 32
    LONESTAR RD, Huntsville, TX, 77340
    CARDONA GRISELDA & ARTURO
    10118 AUTUMN WAY CT
    HOUSTON, TX, 77064

33. PROPERTY No. 33
    157 INSCRIPTION LANE, Huntsville, TX, 77340
    KUYKENDALL JEFF B & CINDY L
    2511 RAINTREE
    COLLEGE STATION, TX, 77845-4125

34. PROPERTY No. 34
    LONESTAR RD, Huntsville, TX, 77340
    ARELLANO FERNANDO JAIMES
    5403 BOURGEOIS RD
    HOUSTON, TX, 77066-3311

35. PROPERTY No. 35
    INSCRIPTION LANE, Huntsville, TX, 77340
    NINAN MATTHEW V JR & SUMA M
    10418 MONTICELLO HILL DR
    KATY, TX, 77494-3485

36. PROPERTY No. 36
    900 LONESTAR RD, Huntsville, TX, 77340
    EBANKS FAMILY LIVING TRUST
    2430 RIVERWAY DR UNIT 509
    CONROE, TX, 77304

37. PROPERTY No. 37
    INSCRIPTION LANE, Huntsville, TX, 77340

NINAN MATTHEW V JR & SUMA M
10418 MONTICELLO HILL DR
KATY, TX, 77494-3485

38. PROPERTY No. 38
896 LONESTAR RD, Huntsville, TX, 77340
GOHEEN LLOYD EUGENE & DIANE L
896 LONESTAR RD, HUNTSVILLE, TX, 77340-1427

39. PROPERTY No. 39
INSCRIPTION LANE, Huntsville, TX, 77340
SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

40. PROPERTY No. 40
LONESTAR RD, Huntsville, TX, 77340
TREND VIEW ENTERPRISES LLC
PO BOX 1331
SPRING, TX, 77383

41. PROPERTY No. 41
INSCRIPTION LANE, Huntsville, TX, 77340
SONATA CONSTRUCTION LLC
2500 WEST LOOP SOUTH STE 310
HOUSTON, TX, 77027-4517

42. PROPERTY No. 42
LONESTAR RD, Huntsville, TX, 77340
CASTANEDA ANDREW
15126 BOTANICAL GARDEN DR
CONROE, TX, 77302

43. PROPERTY No. 43
INSCRIPTION LANE, Huntsville, TX, 77340
FEREBEE WILLIAM C & DI ANNA M
1780 HUGHES LANDING
THE WOODLANDS, TX, 77380-4021

44. PROPERTY No. 44
LONESTAR RD, Huntsville, TX, 77340
MARTIN JAMES
14182 HARLEQUIN DR
WILLIS, TX, 77318

45. PROPERTY No. 45
    INSCRIPTION LANE, Huntsville, TX, 77340
    NGUYEN CHAU & MAI
    29538 MONONA TERRACE CT
    SPRING, TX, 77386-4323

46. PROPERTY No. 46
    LONESTAR RD, Huntsville, TX, 77340
    HENEGAR RICHARD R & ELIZABETH SUSAN PETERSON
    16231 HICKORY POINT RD
    HOUSTON, TX, 77095-4011

47. PROPERTY No. 47
    LONESTAR RD, Huntsville, TX, 77340
    GORDON SHENEKA ATRAMEASE & DEVIN R
    2728 MERLIN LN
    PEARLAND, TX, 77581-3557

U S FORESTRY
Unlisted

1 TEXAS GRAND RANCH
PROPERTY OWNERS
ASSOCIATION
% GOODWIN & CO PO BOX
203310
AUSTIN TX 78720

NAH TAHPLAH D

PO BOX 311025

HOUSTON TX 77231-3025

ALI AHSAN & HINA
27215 CHESHIRE EDGE LN
KATY TX 77494-6263

WALKER MARVETTA M
2003 COVENT GARDEN STA
HOUSTON TX 77045-2533

GOMEZ GERMAN
5930 PEBBLE SPRINGS DR
HOUSTON TX 77066-2313

LAKEY OWEN THOMAS
1057 REVEREND B J LEWIS
DR
HOUSTON TX 77088-616

MASON KIRK & DEBORAH
114 AZURITE RD PMB 182
HUNTSVILLE TX 77340-
1428

AL-AGHA & LAURA
SHAHEEN REVOCABLE TRUST
9630 FM 1488 ROAD
MAGNOLIA TX 77354

BRUBECK RICK
24518 EMERALD POOL
FALLS DR
TOMBALL TX 77375-5366

NGUYEN BRIAN & THU THUY
640 GORDY RD
BACLIFF TX 77518-2150

REXROAD JEFFREY PAUL &
DANESE B
301 FALCON LAKE DR
FRIENDSWOOD TX 77546

DAYA WILLIAM BURGOS &
MARIEL DIPLAN
RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY TX 77573-6488

LEISEY JEFFREY DAVID &
CHAMROEUN NICOLE
130 AZURITE RD
HUNTSVILLE TX 77340

DAYA WILLIAM BURGOS &
MARIEL DIPLAN
RODRIGUEZ
4811 ISLA CANELA LN
LEAGUE CITY TX 77573-
6488

NGUYEN TRANG V
7007 PEARL TERRACE LN
RICHMOND TX 77469-1892

EGEMEARI EMMANUEL
OSEIYAW & MIRIAM K
12702 SPRUCE CIRCLE
TOMBALL TX 77375-2060

SEDILLO GEORGE JR &
GUADALUPE MARTINEZ
131 FELDSPAR
HUNTSVILLE TX 77340

I TEXAS GRAND RANCH LLC
183 WATER ST
WILLIAMSTOWN MA 01267

I TEXAS GRAND RANCH
LLC
183 WATER ST
WILLIAMSTOWN MA
01267-2830

QUINONES MIGUEL A &
SUSAN
20727 WINDY BRIAR LN
SPRING TX 77379-8495

WARE RONALD DOUGLAS
936 LONESTAR RD
HUNTSVILLE TX 77340

TEMPLETON JOSHUA
WELLINGTON & AMELIA
205 INSCRIPTION LN # 1174
HUNTSVILLE TX 77340

SCALES STEVEN LANE &
JULIE A
928 LONESTAR RD
HUNTSVILLE TX 77340

WARE MARK JAMES &
SUSAN YVETTE
WARE 24915 PIKECREST DR
SPRING TX 77389

SCALES STEVEN L & JULIE
ANN
928 LONESTAR RD
HUNTSVILLE TX 77340

NADDY RICHARD IV &
ANGELA
PO BOX 9495
HUNTSVILLE TX 77340

VETERANS LAND BOARD
OF THE STATE OF TEXA
1 CORPORATE DR STE 360
LAKE ZURICH IL 60047

WITHEREL MATTHEW
LOUIS & BETH
2007 WILLOWLAKE DR
HOUSTON TX 77077

CARDONA JORGE ARTURO
& VANESA M
38549 WINDING WALK DR
MURRIETA CA 92563-0805

Date: 10/1/2024 Time: 2:40:35 PM
N:\128\128-10028-000\9-0-Data-GIS-Modeling\9-01-GIS\2-ArcMapProjects\Working\Huntsville_NB_Davidson_WWTP_LOWNR.mxd

City of Huntsville

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

2925 Briarpark Drive • Houston, TX 77042-3720
T 713.266.6900 • F 713.266.2089
www.lan-inc.com • info@lan-inc.com

ATTACHMENT DAR - 4

AFFECTED LANDOWNERS MAP

DATE: OCTOBER 2024

ATTACHMENT Q

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
MODIFICACION

PERMISO NO. WQ00_____

SOLICITUD. La Ciudad de Huntsville, ubicada en 1212 Avenue M, Huntsville, Texas 77340, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0010781002 (EPA I.D. No. TX0022373) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar un aumento en el flujo máximo de 2 horas de 4.0 MGD a 6.5 MGD, y la conversión del proceso de CAS al proceso de SBR. La planta está aproximadamente a 3.5 millas al sur de la intersección de Farm-to-Market Road 1374 y la Carretera Interestatal I-45, y a 1.4 millas al suroeste de la presa de Elkins Lake, al sur de la ciudad de Huntsville, cerca de la ciudad de Huntsville, en el Condado de Walker, Texas 77340. La ruta de descarga es desde el sitio de la planta hacia un afluente sin nombre, luego hacia Persimmon Creek, luego hacia East Sandy Creek, y posteriormente hacia el Lago Conroe en el Segmento No. 1012 de la Cuenca del Río San Jacinto. La TCEQ recibió esta solicitud el 19 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Centro de Servicios de la Ciudad de Huntsville, ubicado en 448 State Highway 75 North, Huntsville, en el Condado de Walker, 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=-95.552222,30.645277&level=18

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary and is an application for a major amendment which will increase the pollutant loads to coastal waters or would result in relocation of an outfall to a critical areas, or a renewal with such a major amendment. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. If the application is for amendment that does ot meet the above description, do not include the sentence: El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

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

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

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

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

puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

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

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

También se puede obtener información adicional de La Ciudad de Huntsville a la dirección indicada arriba o llamando a Sr. Stacy Lawler, Superintendente de Aguas Residuale, al 936-294-5763.

Fecha de emisión _____ *[Date notice issued]*

TPDES PERMIT NO.
WQ0010781002
[For TCEQ office use only - EPA I.D. No. TX0022373]

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

This major amendment with renewals supersedes and replaces TPDES Permit No. WQ0010781002 issued on February 17, 2022.

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

City of Huntsville

whose mailing address is

1212 Avenue M
Huntsville, Texas 77340

is authorized to treat and discharge wastes from the N.B. Davidson South Wastewater Treatment Facility, SIC Code 4952

located approximately 3.5 miles south of the intersection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles of southwest of the Elkins Lake Dam, near the City of Huntsville in Walker County, Texas 77340

to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin

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

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

ISSUED DATE:

For the Commission

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of the Final phase 1.6 million gallons per day (MGD) SBR facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 1.6 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,778 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (133)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (200)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (27)	5	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

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

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the the Final phase 1.6 million gallons per day (MGD) SBR facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 1.6 MGD*

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (133)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (200)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (27)	5	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

   *See Other Requirement No. 7.

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

   i. date, time and place of sample or measurement;

   ii. identity of individual who collected the sample or made the measurement.

   iii. date and time of analysis;

   iv. identity of the individual and laboratory who performed the analysis;

   v. the technique or method of analysis; and

   vi. the results of the analysis or measurement and quality assurance/quality control records.

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.

      iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

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

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

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

9. Changes in Discharges of Toxic Substances

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

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. One hundred micrograms per liter (100 µg/L);

   ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

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

   i. Five hundred micrograms per liter (500 µg/L);

   ii. One milligram per liter (1 mg/L) for antimony;

   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

       i. The quality and quantity of effluent introduced into the POTW; and

       ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

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

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

      i. Violation of any terms or conditions of this permit;

      ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

      iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

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

2. Compliance

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

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

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

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

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

   f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

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

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

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

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

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

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

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

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

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

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

f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

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

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

       ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

       iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

6. The permittee shall remit an annual water quality fee to the Commission as required by 30

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

7. Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

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

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

   i. Volume of waste and date(s) generated from treatment process;
   ii. Volume of waste disposed of on-site or shipped off-site;
   iii. Date(s) of disposal;
   iv. Identity of hauler or transporter;
   v. Location of disposal site; and
   vi. Method of final disposal.

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

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

TCEQ Revision 06/2020

SLUDGE PROVISIONS

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

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

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

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

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

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted

for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

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

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids

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

Alternative 9 -

i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

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

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

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

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

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal

coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

   b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

   c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

   a. The location, by street address, and specific latitude and longitude, of each land application site.

   b. The approximate time period bulk biosolids will be applied to the site.

   c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

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

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

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

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

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

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

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.

D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

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

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

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

F. Record Keeping Requirements

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

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

2. The description (including procedures followed and results) of all TCLP tests performed.

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

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

OTHER REQUIREMENTS

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

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

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

3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

4. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month in the Interim phase and daily may be reduced to five/week in the Final phase. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

5. Prior to construction of the Final phase (1.6 MGD) SBR treatment facility, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2a of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

6. Reporting requirements according to 30 TAC §§ 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge from the facility described by this permit, whichever occurs first. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division in writing at least forty-five days prior to plant startup or anticipated discharge, whichever occurs first, and prior to completion of each additional phase on Notification of Completion Form 20007.

7. The Final phase (1.6 MGD) facility is designed for batch discharge. Maximum 2-hour peak flow limits are not included in the permit. The permittee shall operate the UV disinfection facilities to ensure that the effluent complies with permit limits for bacteria. This provision does not limit or restrict future inclusion of peak flow limits.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Huntsville** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **September 30, 1982,** and modified on **July 21, 1995, June 17, 2011, May 13, 2020** (non-substantial Streamlining Rule), and on **July 31, 2020** (copper TBLL)**.**

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

   a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.

   b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.

   c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.

   d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

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

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

(5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and

(6) Requirements to control slug discharges, if determined by the POTW to be necessary.

e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).

f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).

g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.

h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.

2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

   The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either:

   1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; **or**

   2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev. 10/14/05]*, and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve**

(12) months of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per twelve (12) months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

   The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) *[rev. 10/14/05]* or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **August** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

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

   a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:

(1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.

(2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [*rev. 10/14/05*], then the list must also identify:

- categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [*rev. 10/22/15*] and (3);
- those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
- those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).

(3) Control mechanism status.

- Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
- Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
- Include the type of general control mechanisms; and
- Report all NSCIU annual evaluations performed, as applicable.

(4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:

- Total number of inspections performed; and
- Total number of sampling events conducted.

(5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) - no violations during the pretreatment year reporting period;
- Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) - in accordance with requirements described above in this section.

(6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.

b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.

c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.

d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.

e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.

f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.

g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (*See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.*)

h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.

i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

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

5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days

of the permittee's knowledge of the following:

a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and

b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

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

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

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

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

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS[1] LIST																
Industrial User Name	SIC or NAICS Code	CIU[2]	CONTROL MECHANISM				New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
										REPORTS				NSCIU Certifications	Effluent Limits	Narrative Standards
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				BMR	90-Day	Semi-Annual	Self-Monitoring[8]			

1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.

4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

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

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

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

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

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken

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

TPDES Permit No: _____Permittee:_____Treatment Plant: _____

Overall SNC ___% SNC [10] based on: Effluent Violations_____%
Reporting Violations_____% Narrative Standard Violations___%

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

10 # %
__ __ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)
__ __ Reporting Requirements [WENDB-PSNC]
__ __ Narrative Standards

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

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

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

TPDES Permit No.: _____ Permittee:_____Treatment Plant: _____

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
METALS, CYANIDE AND PHENOLS											
Antimony, Total											
Arsenic, Total											
Beryllium, Total											
Cadmium, Total											
Chromium, Total											
Chromium (Hex)											
Chromium (Tri)[5]											
Copper, Total											
Lead, Total											
Mercury, Total											
Nickel, Total											
Selenium, Total											
Silver, Total											
Thallium, Total											
Zinc, Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Cyanide, Available [6]											
Cyanide, Total											
Phenols, Total											
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile											
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene											
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS											
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachloro- cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											
Naphthalene											
Nitrobenzene											
N-Nitrosodimethylamine											
N-Nitrosodi-n-Propylamine											
N-Nitrosodiphenylamine											
Phenanthrene											
Pyrene											
1,2,4-Trichlorobenzene											
PESTICIDES											
Aldrin											
Alpha-hexachlorocyclohexane (BHC)											
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4,4-DDT											
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachlorophene											
4,4-Isopropylidenediphenol (bisphenol A) [9]											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) [9]											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion											
Pentachlorobenzene											
Pyridine											
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene											
2,4,5-TP (Silvex)											
Tributyltin [9]											
2,4,5-Trichlorophenol											
TTHM (Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Trihalomethanes)											

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).

2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

   The % of the MAHL is to be calculated using the following formulas:

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/L of all influent samples collected during the pretreatment year.
Q_{WWTP} =	Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
$L_{\%}$ =	% of the MAHL
MAHL =	Calculated MAHL in lb/day
8.34 =	Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.

4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.

5. Report result by subtracting Hexavalent Chromium from Total Chromium.

6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.

7. Hydrolyzes in water. Will not require permittee to analyze at this time.

8. EPA procedure not approved. Will not require permittee to analyze at this time.

9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

BIOMONITORING REQUIREMENTS

48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute static renewal 48-hour definitive toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia)*. A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

2) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and submit a valid test for each test species during the required reporting period for that species. A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution. A repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

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

e. Testing Frequency Reduction

1) If none of the first four consecutive quarterly tests demonstrates

significant lethal effects, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

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

2. Required Toxicity Testing Conditions

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

1) a control mean survival of 90% or greater; and

2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

b. Statistical Interpretation

1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

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

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference the survival of the test organism in a

specified effluent dilution when compared to the survival of the test organism in the control.

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

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

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

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

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

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

b) the test indicating receiving water toxicity was carried out to completion; and

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

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

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

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

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

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

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

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

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

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

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

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

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

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter TOM3D, report the NOEC for survival.

3) For the water flea, Parameter TXM3D, report the LOEC for survival.

4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.

6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a toxicity test demonstrates significant lethality. Significant lethality was defined in Part 2.b.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant

lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

c. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply

as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

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

Test initiated: _____am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

*Coefficient of Variation = Standard Deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

TABLE 1 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

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

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

* Coefficient of Variation = standard deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

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

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

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

e. As the dilution series specified in the 48-Hour Acute Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in Part 1.a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

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

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

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

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

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

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

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

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical

analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE Activities Reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Ttesting for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive

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

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

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

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementing corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781002, EPA I.D. No. TX0022373, to discharge to water in the state.

Issuing Office:	Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087
Applicant:	City of Huntsville 1212 Avenue M Huntsville, Texas 77340
Prepared By:	Abdur Rahim Municipal Permits Team Wastewater Permitting Section (MC 148) Water Quality Division (512) 239-0504
Date:	June 30, 2025 (Revised: September 17, 2025)
Permit Action:	Major Amendment

1. EXECUTIVE DIRECTOR RECOMMENDATION

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

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment with renewal to authorize the relocation of Outfall 001 approximately 75 feet southwest of the current location, and to convert the treatment process from conventional activated sludge to sequencing batch reactor (SBR) in the Final phase. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,600,000 gallons per day. The existing wastewater treatment facility serves the City of Huntsville's southern and southeastern sectors including Elkins Lake.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located approximately 3.5 miles south of the intersection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles of southwest of the Elkins Lake Dam, in Walker County, Texas 77340.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.644919 N	95.552930 W

The treated effluent is discharged to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed tributary, limited aquatic life use for Persimmon Creek, and high aquatic life use for East Sandy Creek. The designated uses for Segment No. 1012 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The N.B. Davidson South Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode in the Interim phase, and will be a sequencing batch reactor (SBR) facility in the Final phase. Treatment units in the Interim phase include a mechanical bar screen, a grit removal system, an oxidation ditch, four aeration basins, two final clarifiers, two aerobic sludge digesters, twelve sludge drying beds, two chlorine contact basins and a dechlorination basin. The treatment units in the Final phase will include two rotary drum screens, two grit removal systems, four SBR basins, two cloth media disk filters, two aerobic sludge digesters, two volute dewatering press, and two Ultraviolet Light (UV) disinfection channels. The facility is operating in the Interim phase.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Security Recycling and Disposal Facility, Permit No. 1752B, in Montgomery County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The N.B. Davidson South WWTP receives significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period from September 2022 through September 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli (E. coli)* in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	0.82
$CBOD_5$, mg/l	3
TSS, mg/l	17.6
NH_3-N, mg/l	0.24
E. coli, CFU or MPN per 100 ml	4

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.6 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,778 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	133	15	25
TSS	15	200	25	40
NH_3-N	2	27	5	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

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

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

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
DO	Two/week
E. coli	One/week

B. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.6 MGD.*

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	133	15	25
TSS	15	200	25	40

NH_3-N	2	27	5	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

*See Other Requirement No. 7.

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

The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
DO	Two/week
E. coli	Daily

C. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Security Recycling and Disposal Facility, Permit No. 1752B, in Montgomery County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

D. PRETREATMENT REQUIREMENTS

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

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on September 30, 1982, and modified on July 21, 1995; June 17, 2011; May 13, 2020 (nonsubstantial Streamlining Rule), and on July 31, 2020 (copper TBLL). The permittee is required, under the

conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of **August** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

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

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either: (1) a **WRITTEN CERTIFICATION** that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs Reassessment Form No. TCEQ-20221], **OR** (2) a **WRITTEN NOTIFICATION** that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 *[rev. 10/14/05]* and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of the permit.

E. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes 48-hour acute freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Acute static renewal 48-hour definitive toxicity tests using the water flea (*Daphnia pulex*) or (*Ceriodaphnia dubia*). The

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

(b) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

Other Requirement No. 7 has been added to the draft permit as per applicant's request to add an SBR system in the Final phase.

The Outfall 001 has been relocated approximately 75 feet southwest of the current location and converted the treatment process from conventional activated sludge to sequencing batch reactor (SBR) in the Final phase as per applicant's major amendments request.

The facility's location description in the existing permit has been updated to state: located approximately 3.5 miles south of the intersection of Farm-to-Market Road 1374 and Interstate Highway 45, and 1.4 miles of southwest of the Elkins Lake Dam, near the City of Huntsville in Walker County, Texas 77340.

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

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

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

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

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed tributary, thence to Persimmon Creek, thence to East Sandy Creek, thence to Lake Conroe in Segment No. 1012 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed tributary, limited aquatic life use for Persimmon Creek, and high aquatic life use for East Sandy Creek. The designated uses for Segment No. 1012 are primary contact recreation, public water supply, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with 30 Texas Administrative Code §307.5 and the TCEQ's Procedures to Implement the Texas Surface Water Quality Standards (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in East Sandy Creek, which has been identified as having high aquatic life uses. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

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

updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1012 is not currently listed on the State's inventory of impaired and threatened waters, the 2022 CWA § 303(d) list.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 472 mg/l total dissolved solids (TDS), 34.6 mg/l sulfate, and 96.1 mg/l chloride present in the effluent. The segment criteria for Segment No. 1012 are 300 mg/l for TDS, 50 mg/l for sulfate, and 96.1 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

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

(2) CONVENTIONAL PARAMETERS

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

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

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

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is

designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Chronic freshwater criteria do not apply to discharges to intermittent streams where there is no perennial waterbody within three miles downstream from the point of discharge. The following critical effluent percentage is being used:

Acute Effluent %: 100%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 99th percentile confidence level. The LTA is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance *document "Procedures to Implement the Texas Surface Water Quality Standards*, June 2010." The segment values are 65 mg/l for hardness (as calcium carbonate), 19 mg/l chlorides, 7.4 standard units for pH, and 4.0 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

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

the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

The discharge point is located at a distance greater than three miles upstream of perennial waters. Human health screening is not applicable because of the distance between the discharge point and perennial waters that support fisheries.

(b) PERMIT ACTION

None.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1012, which receives the discharge from this facility, is designated as a public water supply. The discharge point is located at a distance greater than three miles from the classified segment. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable due to the distance between the discharge point and the classified segment.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

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

The existing permit includes 48-hour acute freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed fourteen 48-hour acute tests, with no demonstrations of significant toxicity (i.e., failures) by the water flea or fathead minnow.

A reasonable potential (RP) determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic (or 48-hour acute) WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no demonstrations of significant toxicity during the period of record for either test species, a determination of no reasonable potential was made. All of the test results were used for this determination.

(b) PERMIT ACTION

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

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed fourteen 24-hour acute tests, with no demonstrations of significant mortality.

(b) PERMIT ACTION

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

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

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

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

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

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

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

For additional information about this application, contact Abdur Rahim at (512) 239-

0504.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010781002 issued on February 17, 2022.

B. APPLICATION

Application received on September 19, 2024, and additional information received on October 9, 2024, and July 2, 2025.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

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

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

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

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 1 - Discharge to an Intermittent Stream

Applicant Name:	**City of Huntsville**
Permit Number, Outfall:	**10781-002**
Segment Number:	**1012 - Lake Conroe**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	300	mg/L	2022 TSWQS, Appendix A
Cl CC - segment criterion - chloride	50	mg/L	2022 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	50	mg/L	2022 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	472	mg/L	Permit application
Cl CE - average effluent concentration - chloride	96.1	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	34.6	mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS}, as follows:

C_{TDS} = (TDS CC / 500 mg/L) * 2,500 mg/L

Where:	C_{TDS} = TDS concentration used to determine Csv screening value TDS CC = TDS criterion at the first downstream segment 500 mg/L = the median TDS concentration in Texas streams 2,500 mg/L = the minimum TDS screening value

C_{TDS} = 1500 mg/L

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		**Then TDS Csv**
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L but ≤ 6,000 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	If C_{TDS} is	Default Csv =
Dry except for short-term flow in immediate response to rainfall.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and wastewater, considered water in the state.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv is established, the next step is to compare the effluent TDS concentration,
TDS CE, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening			Data Source
TDS CE - average effluent TDS concentration	472	mg/L	Permit application
TDS Csv - TDS screening value	**2,500**	mg/L	Determined above

No control measures needed if:	472	≤	2500
Consider control measures if:	472	>	2500

No control measures needed for TDS

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl Csv, as follows:

Cl Csv = (TDS Csv /TDS CC) * Cl CC

Where:	Cl Csv = chloride screening value TDS Csv = TDS screening value TDS CC = TDS criterion at the first downstream segment

	Cl CC - chloride criterion at the first downstream segment

Cl Csv = **416.66667** mg/L

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening			**Data Source**
Cl CE - average effluent chloride concentration	96.1	mg/L	Permit application
Cl Csv - chloride screening value	416.66667	mg/L	Determined above

No control measures needed if:	96.1	≤	416.6667
Consider control measures if:	96.1	>	416.6667

No control measures needed for chloride

When effluent limitations are established in the permit, the daily average chloride limit is
typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average
limit.

Chloride			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO4 Csv, as follows:

SO4 Csv = (TDS Csv /TDS CC) * SO4 CC

Where:	SO4 Csv = sulfate screening value TDS Csv = TDS screening value TDS CC = TDS criterion at the first downstream segment

SO4 CC - sulfate criterion at the first downstream segment

SO4 Csv = **416.66667** mg/L

Once the SO4 Csv is established, the next step is to compare the effluent sulfate concentration, SO4 CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			**Data Source**
SO4 CE - average effluent sulfate concentration	34.6	mg/L	Permit application
SO4 Csv - sulfate screening value	416.66667	mg/L	Determined above

No control measures needed if:	34.6	≤	416.6667
Consider control measures if:	34.6	>	416.6667

No control measures needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #1 - INTERMITTENT STREAM

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Huntsville
TPDES Permit No:	WQ0010781002
Outfall No:	001
Prepared By:	Abdur Rahim
Date:	June 17, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Unnamed tributary
Segment No:	1012
TSS (mg/L):	4
pH (Standard Units):	7.6
Hardness (mg/L as $CaCO_3$):	65
Chloride (mg/L):	19
Effluent Flow for Aquatic Life (MGD):	1.6
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Acute Aquatic Life:	100

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

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	173978.75	0.590		1.00	Assumed
Cadmium	6.60	-1.13	831136.22	0.231		1.00	Assumed
Chromium (total)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	375383.87	0.400		1.00	Assumed
Lead	6.45	-0.80	929719.64	0.212		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	222241.83	0.529		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	575278.59	0.303		1.00	Assumed
Zinc	6.10	-0.70	477043.53	0.344		1.00	Assumed

AQUATIC LIFE
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*WLAa (µg/L)*	*LTAa (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	3.00	1.72	2.52	5.34
Aluminum	991	991	568	834	1765
Arsenic	340	577	330	485	1027
Cadmium	5.644413	24.4	14.0	20.5	43.4
Carbaryl	2.0	2.00	1.15	1.68	3.56
Chlordane	2.4	2.40	1.38	2.02	4.27

Chlorpyrifos	0.083	0.0830	0.0476	0.0699	0.147
Chromium (trivalent)	400.3784	1861	1067	1567	3316
Chromium (hexavalent)	15.7	15.7	9.00	13.2	27.9
Copper	9.4639107	23.7	13.6	19.9	42.1
Cyanide (free)	45.8	45.8	26.2	38.5	81.6
4,4'-DDT	1.1	1.10	0.630	0.926	1.96
Demeton	N/A	N/A	N/A	N/A	N/A
Diazinon	0.17	0.170	0.0974	0.143	0.302
Dicofol [Kelthane]	59.3	59.3	34.0	49.9	105
Dieldrin	0.24	0.240	0.138	0.202	0.427
Diuron	210	210	120	176	374
Endosulfan I (*alpha*)	0.22	0.220	0.126	0.185	0.392
Endosulfan II (*beta*)	0.22	0.220	0.126	0.185	0.392
Endosulfan sulfate	0.22	0.220	0.126	0.185	0.392
Endrin	0.086	0.0860	0.0493	0.0724	0.153
Guthion [Azinphos Methyl]	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.52	0.520	0.298	0.438	0.926
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	1.13	0.645	0.948	2.00
Lead	40.281952	190	109	160	338
Malathion	N/A	N/A	N/A	N/A	N/A
Mercury	2.4	2.40	1.38	2.02	4.27
Methoxychlor	N/A	N/A	N/A	N/A	N/A
Mirex	N/A	N/A	N/A	N/A	N/A
Nickel	325.22903	614	352	517	1094
Nonylphenol	28	28.0	16.0	23.5	49.8
Parathion (ethyl)	0.065	0.0650	0.0372	0.0547	0.115
Pentachlorophenol	15.942683	15.9	9.14	13.4	28.4
Phenanthrene	30	30.0	17.2	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	2.00	1.15	1.68	3.56
Selenium	20	20.0	11.5	16.8	35.6
Silver	0.8	11.5	6.60	9.70	20.5
Toxaphene	0.78	0.780	0.447	0.657	1.38
Tributyltin [TBT]	0.13	0.130	0.0745	0.109	0.231
2,4,5 Trichlorophenol	136	136	77.9	114	242
Zinc	81.346086	237	136	199	421

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	339	412
Cadmium	14.3	17.4
Carbaryl	1.17	1.43
Chlordane	1.41	1.71
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	1097	1332
Chromium (hexavalent)	9.25	11.2
Copper	13.9	16.9
Cyanide (free)	27.0	32.7
4,4'-DDT	0.648	0.787
Demeton	N/A	N/A
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.141	0.171
Diuron	123	150
Endosulfan I (*alpha*)	0.129	0.157

Endosulfan II (*beta*)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0507	0.0615
Guthion [Azinphos Methyl]	N/A	N/A
Heptachlor	0.306	0.372
Hexachlorocyclohexane (*gamma*) [Lindane]	0.663	0.806
Lead	112	136
Malathion	N/A	N/A
Mercury	1.41	1.71
Methoxychlor	N/A	N/A
Mirex	N/A	N/A
Nickel	362	439
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	9.40	11.4
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	1.17	1.43
Selenium	11.7	14.3
Silver	6.79	8.24
Toxaphene	0.459	0.558
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	139	169