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.

El Paso Water Utilities Public Service Board (CN600745392) operates El Paso Water Utilities Northwest WWTP (RN103870341), a Domestic Wastewater Treatment Plant. The facility is located at 701 Executive Center Blvd., in El Paso, El Paso County, Texas 79922. This application is for a renewal to discharge at an annual average flow of 17.5 million gallons per day of treated domestic wastewater via outfall at the Rio Grande above International Dam, segment 2314. *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain a five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), and ammonia nitrogen. Additional potential contaminants are included in the Domestic Technical Report 1.0, Section7. Domestic Wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, clarifiers, belt filter presses and a disinfection process operated with ultraviolet technology.

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.

El Comite de servidores publicos de El Paso Water Utilities (CN600745392) opera El Paso Water Utilities Northwest WWTP RN103870341, una planta de tratamiento de aduas residuals domesticas. La instalación está ubicada en 701 Executive Center Blvd., en El Paso, Condado de El Paso, Texas 79922. Esta aplicación es para una renovación para descargar un flujo promedio anual de 17.5 millones de galones por día de aguas residuales domésticas tratadas, con desagüe en el Río Bravo (Río Grande), arriba de la Presa Internacional, segmento 2314. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan una demanda de oxígeno bioquímico carbonoso de cinco dias (CBOD5), sólidos suspendidos totales (TSS), y nitrógeno amoniacal. Contaminantes potenciales adicionales se incluyen en el Reporte Técnico Doméstico 1.0, sección 7. Las aguas residuales domésticas. están tratado por una planta procesadora de lodo activado, y las unidades de tratamiento incluyen barra de cribado, una cámara de tamizado, cuencas de aireasión, clarificadores, prensas de filtro y un proceso de desinfección operado con tecnología ultravioleta.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010408009

APPLICATION. El Paso Water Utilities Public Service Board, P.O. Box 511, El Paso, Texas 79961, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010408009 (EPA I.D. No. TX0087149) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 17,500,000 gallons per day. The domestic wastewater facility is located at 701 Executive Center Boulevard, in the city of El Paso, in El Paso County, Texas 79922. The discharge route is from the plant site to an unnamed arroyo, thence to Rio Grande above International Dam. TCEQ received this application on January 24, 2025. The permit application will be available for viewing and copying at International Water Quality Laboratory, Wastewater Division, 4100-L Delta Drive, El Paso, in El Paso County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-106.522222,31.794722&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

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

Further information may also be obtained from El Paso Water Utilities Public Service Board at the address stated above or by calling Mr. Angel Bustamante, Wastewater Systems Divisions Manager, at 915-487-7739.

Issuance Date: February 12, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010408009

SOLICITUD. El Paso Water Utilities Public Service Board, P.O. Box 511, El Paso Texas 79961 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010408009 (EPA I.D. No. TX0087149) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 17,500,00 galones por día. La planta está ubicada en 701 Executive Center Boulevard, en la Ciudada de El Paso en el Condado de El Paso, Texas. La ruta de descarga es del sitio de la planta hacia el arroyo sin nombre, de allí al Rio Grande sobre la Presa Internacional. La TCEQ recibió esta solicitud el 24 de enero del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en el Laboratorio Internacional de Calidad del Agua, en el departamento de Aguas Residuales ubicado en 4100-L Delta Drive, El Paso, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluyendo actualizaciones y avisos asociados están disponibles 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=-106.522222,31.794722&level=18

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

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

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado 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 El Paso Water Utilities Public Service Board a la dirección indicada arriba o llamando a Angel Bustamante, Gerente del Departamento de Aguas Residuales al teléfono 915-487-7739

Fecha de emission: 12 de Febrero de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010408009

APPLICATION AND PRELIMINARY DECISION. El Paso Water Utilities Public Service Board, P.O. Box 511, El Paso, Texas 79961, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010408009, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 17,500,000 gallons per day. TCEQ received this application on January 24, 2025.

The facility is located at 701 Executive Center Boulevard, in the City of El Paso, El Paso County, Texas 79922. The treated effluent is discharged to an unnamed arroyo, thence to Rio Grande above International Dam in Segment No. 2314 of the Rio Grande Basin. The unclassified receiving water use is minimal aquatic life use for unnamed arroyo. The designated uses for Segment No. 2314 are primary contact recreation, public water supply, and high aquatic life use. 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=-106.522222,31.794722&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 International Water Quality Laboratory, Wastewater Division, 4100-L Delta Drive, El Paso, in El Paso County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or 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 El Paso Water Utilities Public Service Board at the address stated above or by calling Mr. Angel Bustamante, Wastewater Systems Division Manager, at 915-487-7739.

Issuance Date: September 19, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

RENOVACIÓN

PERMISO NO. WQ0010408009

SOLICITUD Y DECISIÓN PRELIMINAR. La Junta de Servicios Públicos de Servicios de Agua de El Paso (El Paso Water Utilities Public Service Board) P.O. Box 511, El Paso, Texas 79961, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar el Permiso del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0010408009, el cual autoriza un aumento en la descarga de aguas residuales domesticas tratadas de un flujo promedio anual que no exceda los 17,500,000 galones por día. La TCEQ recibió esta solicitud el día 24 de Enero del 2025.

La instalación está ubicada en el 701 Executive Center Boulevard, en la Ciudad de El Paso, Condado de El Paso, Texas 79922. El efluente tratado descarga en un arroyo sin nombre, de ahí llega a Rio Grande por encima de la Presa Internacional en el Segmento No. 2314 de la Cuenca del Rio Grande. El uso del agua receptora no clasificado corresponde a un uso de vida acuática mínima para el arroyo sin nombre. Los usos designados para el segmento No. 2314 son recreación en primer contacto, abastecimiento publico de agua y alto uso para vida acuática. El siguiente enlace de un mapa electrónico de la ubicación general del sitio o la instalación es proporcionado como una cortesía publica y no forma parte de la solicitud o notificación. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-106.522222,31.794722&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, establecerá las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, si se emite, cumple con todos los requisitos legales y reglamentarios. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para consulta y copia en el Laboratorio Internacional de Calidad del Agua, División de Aguas Residuales ubicado en 4100-L Delta Drive, El Paso, en el Condado de El Paso, Texas. La solicitud, incluidas sus actualizaciones, y los avisos asociados están disponibles 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 solicitar 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.

Tras el cierre de todos los períodos aplicables de comentarios y solicitudes, el Director Ejecutivo remitirá la solicitud y cualquier petición para reconsideración o solicitud 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 asunto de la audiencia estará limitado a los hechos en disputa o cuestiones mixtas de hechos y derecho relacionadas a intereses pertinentes y materiales sobre la calidad del agua que se hayan presentado durante el período de comentarios. Si

se cumplen ciertos criterios, la TCEQ puede actuar sobre una solicitud para renovar un permiso de descarga de aguas residuales sin proporcionar una oportunidad para una audiencia administrativa de lo contencioso.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si usted presenta comentarios públicos, una solicitud de audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, se le añadirá a la lista de distribución para esta solicitud especifica y recibirá futuros avisos públicos enviados por la Oficina del Secretario Principal. Además, puede solicitar ser incluido en (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 ser incluido en la lista permanente y/o en la lista del condado, especifique claramente en su solicitud cual(es) lista(s) desea recibir y envíela a la Oficina del Secretario Principal de la TCEQ a la siguiente dirección.

Todos los comentarios escritos del público y los pedidos parar una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, Texas Commission on Eenvironmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o por el internet a www.tceq.texas.gov/about/comments.html dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.

INFORMACION DISPONIBLE EN LINEA. Para detalles acerca del estatus de la solicitud, visite la base de datos de los comisionados en www.tceq.texas.gov/goto/cid. Explore la base de datos usando el numero de permiso para esta solicitud, el cual es proporcionado al inicio de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, 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 al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de La Junta de Servicios Públicos de Servicios de Agua de El Paso (El Paso Water Utilities Public Service Board) a la dirección indicada arriba o llamando al Señor Angel Bustamante, Gerente de la Division de Sistemas de Aguas al 915-487-7739

Fecha de emission:_____

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January 24, 2025

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

Re: Domestic Water Quality Permit Renewal

Permittee: El Paso Water Utilities Public Service Board
CN 600745392

Permit Number: WQ0010408009

Project Name: John T. Hickerson Water Reclamation Facility
(originally: Northwest Wastewater Treatment Plant)
RN 103870341

County: El Paso County

Grant No.: N/A

Executive Director and Team:

This transmitted herewith is the domestic wastewater permit renewal application package for The John T. Hickerson WRF (Northwest WWTP) in El Paso County.

Per 30 TAC §305.48, enclosed in this package for review are the following items:

1. One (1) original and (2) copies of the Domestic Wastewater renewal permit application for the John T. Hickerson WRF, each includes:
    a. Form TCEQ-10053 Domestic Administrative Report (with SPIF and attachments).
    b. Form TCEQ-10054 Domestic Technical Report (with attachments).
    c. Form TCEQ-10056 Domestic Sewage Sludge Report (with attachments).
2. A check (or copy for electronic submittal) in the amount of $2,050 for the application fee.

Additionally, we have uploaded an electronic version of the application to the TCEQ FTP site.

If there are any questions, or if additional information is needed, please do not hesitate to contact me at the address in the letterhead, via email at rboyd@h2o-terra.com, or by telephone at (210)872-5346.

Sincerely,

01/24/2025

Rober G. Boyd, P.E

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600745392		**RN 103870341**

SECTION II: Customer Information

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

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

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

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

El Paso Water

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
CN604343608	17460035797	74-6003579	

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

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

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	P.O Box 511						
	City	El Paso	**State**	TX	**ZIP**	79961	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(915) 594-5500		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

John T. Hickerson Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	701 Executive Center Blvd.							
	City	El Paso	**State**	TX	**ZIP**	79922	**ZIP + 4**	1604
24. County	El Paso							

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

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

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

27. Latitude (N) In Decimal:	31.795079		**28. Longitude (W) In Decimal:**	-106.522175	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	47	22.956	-106	31	24.744

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952	N/A		

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

Municipal Wastewater Treatment Plant

34. Mailing Address:	**4100 Delta Dr.**							
	City	**El Paso**	**State**	**TX**	**ZIP**	**79905**	**ZIP + 4**	
35. E-Mail Address:	**abustamante@epwater.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(915) 533-1418		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010408009			

SECTION IV: Preparer Information

40. Name:	Robert Boyd, P.E		**41. Title:**	Project Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(210) 872-5346		(915) 533-4972	rboyd@h2o-terra.com	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	EPWater	**Job Title:**	**President/CEO**
Name *(In Print):*	J Ohn Balliew	**Phone:**	( ) 915-594-5501
Signature:		**Date:**	1/22/25

10053 Domestic Wastewater Permit Application Administrative

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: El Paso Water Utilities Public Service Board

PERMIT NUMBER (If new, leave blank): WQ00 10408009

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

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☐	☒	Affected Landowners Map	☐	☒
SPIF	☒	☐	Landowner Disk or Labels	☐	☒
Core Data Form	☒	☐	Buffer Zone Map	☐	☒
Public Involvement Plan Form	☐	☒	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☐	☒	Original Photographs	☐	☒
Worksheet 2.0	☒	☐	Design Calculations	☐	☒
Worksheet 2.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.0	☐	☒	Water Balance	☐	☒
Worksheet 3.1	☐	☒			
Worksheet 3.2	☐	☒			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☒	☐			
Worksheet 5.0	☒	☐			
Worksheet 6.0	☒	☐			
Worksheet 7.0	☐	☒			

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: 258162

Check/Money Order Amount: $2,015.00

Name Printed on Check: El Paso Water Utilities – Public Service Board

EPAY — Voucher Number: Click to enter text.

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

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. For existing permits:

Permit Number: WQ00 10408009

EPA I.D. (TPDES only): TX 0087149

Expiration Date: 12/17/2020

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?

El Paso Water Utilities Public Service Board

(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: 600745392

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: John Balliew

Title: President/Chief Executive Officer Credential: P. E

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?

El Paso Water Utilities-Public Service Board

(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: 600745392

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: Balliew, John

Title: President/CEO Credential: P.E

Provide a brief description of the need for a co-permittee: Click to enter text.

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. Appendix A, Attachment 2

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: Mr. Last Name, First Name: Bustamante, Angel

Title: Wastewater Systems Divisions Manager Credential: P. E

Organization Name: El Paso Water Utilities-Public Service Board

Mailing Address: 4100 Delta Dr. City, State, Zip Code: El Paso, TX 79905

Phone No.: 915-487-7739 E-mail Address: abustamante@epwater.org

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Boyd, G Robert

Title: Project Engineer Credential: P. E

Organization Name: H2O-Terra

Mailing Address: 2020 E. Mills Ave. City, State, Zip Code: El Paso, TX 79901

Phone No.: (915)533-1418 E-mail Address: rboyd@h2o-terra.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: Bustamante, Angel

Title: Wastewater Systems Divisions Manager Credential: P. E

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 4100 Delta Dr. City, State, Zip Code: El Paso, TX 79905

Phone No.: 915-487-7739 E-mail Address: abustamante@epwater.org

B. Prefix: Mr. Last Name, First Name: Rodriguez, Ruben

Title: Chief Water Quality Compliance Officer Credential: Click to enter text.

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 1154 Hawkins Boulevard City, State, Zip Code: El Paso, TX 79925

Phone No.: 915-594-5772 E-mail Address: rrodriguez@epwater.org

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: Balliew, John

Title: President/Chief Executive Officer Credential: P. E

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 1154 Hawkins Boulevard City, State, Zip Code: El Paso, TX 79925

Phone No.: 915-594-5500 E-mail Address: jeballiew@epwater.org

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: Bustamante, Angel

Title: Wastewater Systems Divisions Manager Credential: P.E

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 4100 Delta Dr. City, State, Zip Code: El Paso, TX 79905

Phone No.: 915-487-7739 E-mail Address: abustamante@epwater.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Bustamante, Angel

Title: Wastewater Systems Divisions Manager Credential: P.E

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 4100 Delta Dr. City, State, Zip Code: El Paso, TX 79905

Phone No.: 915-487-7739 E-mail Address: abustamante@epwater.org

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: Bustamante, Angel

Title: Wastewater Systems Divisions Manager Credential: P.E

Organization Name: El Paso Water Utilities – Public Service Board

Mailing Address: 4100 Delta Dr. City, State, Zip Code: El Paso, TX 79905

Phone No.: 915-487-7739 E-mail Address: abustamante@epwater.org

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: International Water Quality Laboratory

Location within the building: Wastewater Division

Physical Address of Building: 4100-L Delta Drive

City: El Paso County: El Paso

Contact (Last Name, First Name): Bustamante, Angel

Phone No.: 915-487-7739 Ext.: Click to enter text.

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.

Attachment: Appendix A, Attachment 3

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: N/A

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** 103870341

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):

John T. Hickerson (Northwest) Wastewater Treatment Plant

C. Owner of treatment facility: El Paso Water Utilities – Public Service Board

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

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

Prefix: Click to enter text. Last Name, First Name: Balliew, John

Title: President/CEO Credential: P. E

Organization Name: El Paso Water Utilities-Public Service Board

Mailing Address: P.O Box 511 City, State, Zip Code: El Paso, TX 79961

Phone No.: 915-594-5500 E-mail Address: jeballiew@epwater.org

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.

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: N/A

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: 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: N/A

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:

Click to enter text.

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:

Click to enter text.

City nearest the outfall(s): El Paso

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

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: Click to enter text.

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: El Paso County and Hudspeth County

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: Click to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

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: WQ0010408009

Applicant: El Paso Water Utilities – Public Service Board

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): John Balliew

Signatory title: President/Chief Executive Officer

Signature: _____ Date: 1/22/25

(Use blue ink)

Subscribed and Sworn to before me by the said JOHN E. BALLIEW

on this 22ND day of JANUARY, 2025.

My commission expires on the 29th day of APRIL, 2028.

Lucy Calderon

Notary Public

[SEAL]

LUCY CALDERON
MY COMMISSION EXPIRES
04/29/28
NOTARY ID: 2196929

EL PASO

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):

Click to enter text.

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: Appendix A, Attachment 5

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:** WQ0010408009

1. Check or Money Order Number:
2. Check or Money Order Amount: $2015
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: El Paso Water Utilities Public Service Board
5. APPLICATION INFORMATION

   Name of Project or Site: John T. Hickerson (Northwest) Wastewater Treatment Plant

   Physical Address of Project or Site: 701 Executive Center Boulevard, El Paso, TX 79922

   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

Appendix A, Attachment 1

Copy of Check for Wastewater Permit Application Fees and Submittal Form

Section 1 pg. 2

Appendix A, Attachment 2

Core Data Form 10400

Section 3C. pg. 4

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600745392		**RN 103870341**

SECTION II: Customer Information

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

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

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

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

El Paso Water

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
CN604343608	17460035797	74-6003579	

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

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

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	P.O Box 511						
	City	El Paso	**State**	TX	**ZIP**	79961	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(915) 594-5500		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

John T. Hickerson Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	701 Executive Center Blvd.							
	City	El Paso	**State**	TX	**ZIP**	79922	**ZIP + 4**	1604
24. County	El Paso							

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

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

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

27. Latitude (N) In Decimal:	31.795079		**28. Longitude (W) In Decimal:**	-106.522175	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	47	22.956	-106	31	24.744

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952	N/A		

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

Municipal Wastewater Treatment Plant

34. Mailing Address:	**4100 Delta Dr.**							
	City	**El Paso**	**State**	**TX**	**ZIP**	**79905**	**ZIP + 4**	
35. E-Mail Address:	**abustamante@epwater.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(915) 533-1418		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010408009			

SECTION IV: Preparer Information

40. Name:	Robert Boyd, P.E		**41. Title:**	Project Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(210) 872-5346		(915) 533-4972	rboyd@h2o-terra.com	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	EPWater	**Job Title:**	**President/CEO**
Name *(In Print):*	J Ohn Balliew	**Phone:**	( ) 915-594-5501
Signature:		**Date:**	1/22/25

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Appendix A, Attachment 3

Plain Language Summary Form

Section 8F pg. 7

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.

El Paso Water Utilities Public Service Board (CN600745392) operates El Paso Water Utilities Northwest WWTP (RN103870341), a Domestic Wastewater Treatment Plant. The facility is located at 701 Executive Center Blvd., in El Paso, El Paso County, Texas 79922. This application is for a renewal to discharge at an annual average flow of 17.5 million gallons per day of treated domestic wastewater via outfall at the Rio Grande above International Dam, segment 2314. *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain a five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), and ammonia nitrogen. Additional potential contaminants are included in the Domestic Technical Report 1.0, Section7. Domestic Wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, clarifiers, belt filter presses and a disinfection process operated with ultraviolet technology.

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.

El Comite de servidores publicos de El Paso Water Utilities (CN600745392) opera El Paso Water Utilities Northwest WWTP RN103870341, una planta de tratamiento de aduas residuals domesticas. La instalación está ubicada en 701 Executive Center Blvd., en El Paso, Condado de El Paso, Texas 79922. Esta aplicación es para una renovación para descargar un flujo promedio anual de 17.5 millones de galones por día de aguas residuales domésticas tratadas, con desagüe en el Río Bravo (Río Grande), arriba de la Presa Internacional, segmento 2314. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan una demanda de oxígeno bioquímico carbonoso de cinco dias (CBOD5), sólidos suspendidos totales (TSS), y nitrógeno amoniacal. Contaminantes potenciales adicionales se incluyen en el Reporte Técnico Doméstico 1.0, sección 7. Las aguas residuales domésticas. están tratado por una planta procesadora de lodo activado, y las unidades de tratamiento incluyen barra de cribado, una cámara de tamizado, cuencas de aireasión, clarificadores, prensas de filtro y un proceso de desinfección operado con tecnología ultravioleta.

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.

Appendix A, Attachment 4 and 4B

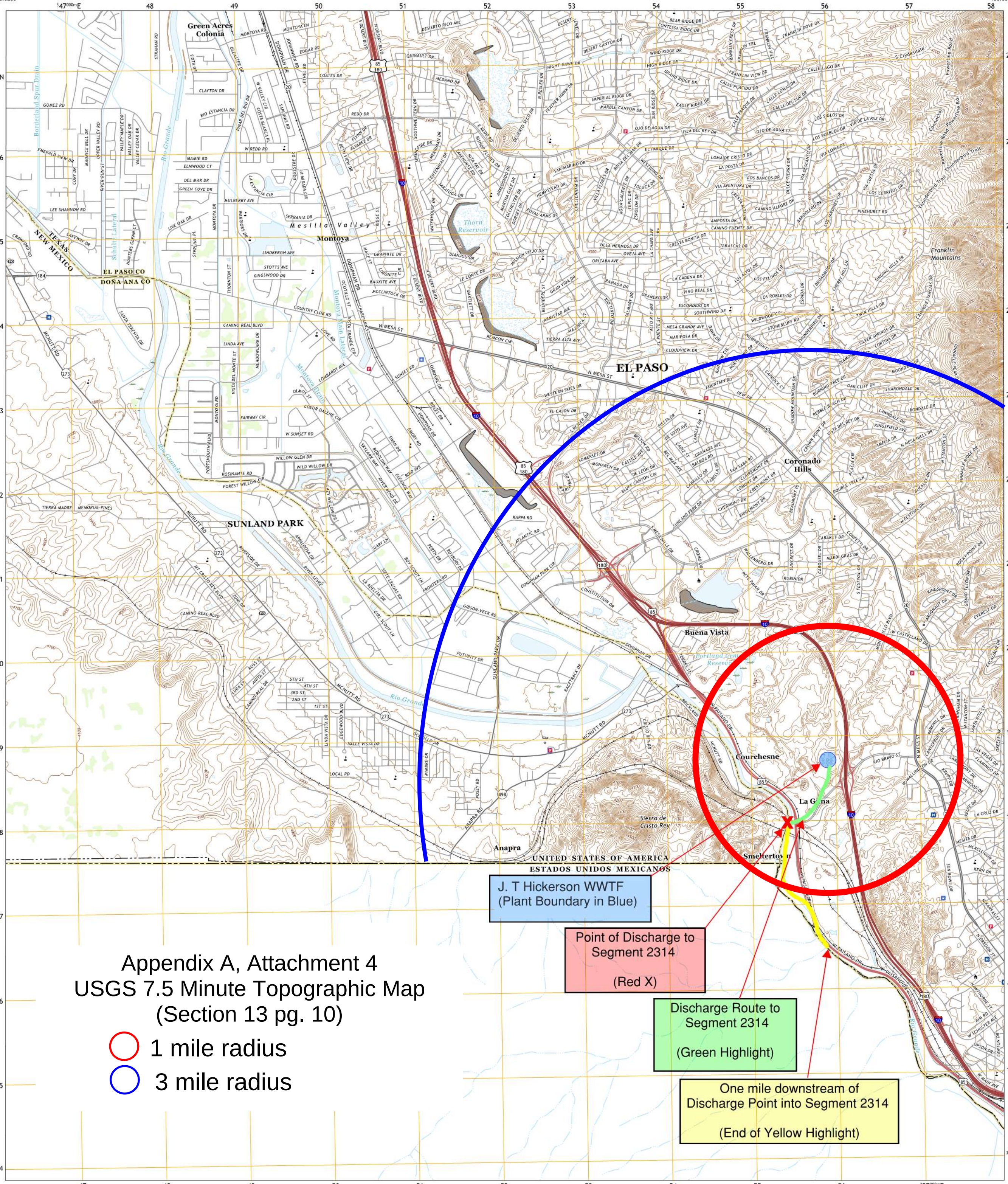
USGS 7.5 Minute Topographic Map

Section 13 pg. 10

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

The National Map
US Topo

SMELTERTOWN QUADRANGLE
TEXAS - NEW MEXICO
7.5-MINUTE SERIES



Appendix A, Attachment 4
USGS 7.5 Minute Topographic Map
(Section 13 pg. 10)

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 13R

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

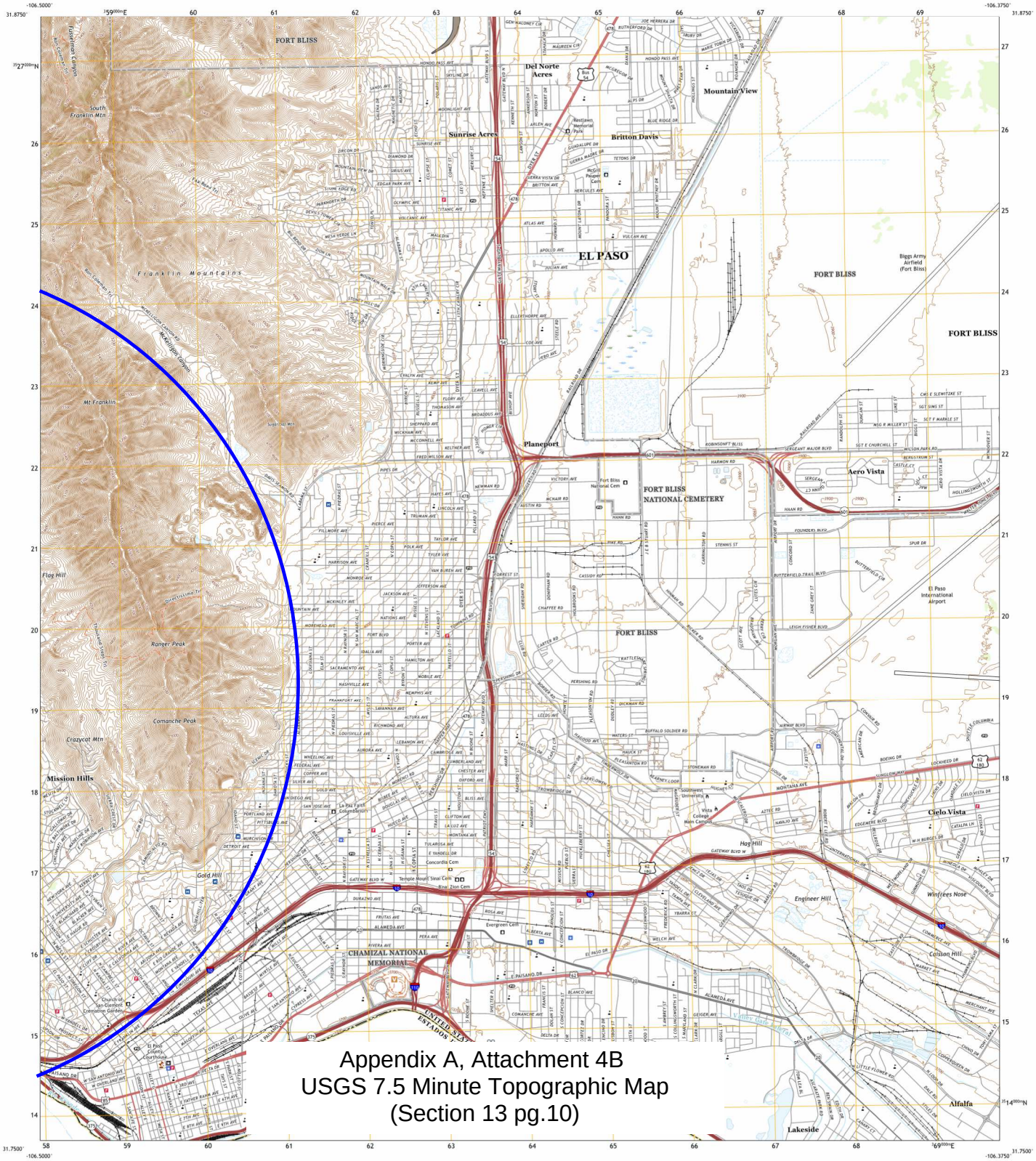
This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

ROAD CLASSIFICATION

ADJOINING QUADRANGLES
1 La Union
2 Canutillo
3 North Franklin Mountain
4 Strauss
5 El Paso
6 Ysleta NW

SMELTERTOWN, TX, NM, CHH
2019

NSN. 7643016398323
NGA REF NO. USGSX24K71634



Appendix A, Attachment 4B
USGS 7.5 Minute Topographic Map
(Section 13 pg.10)

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 13R
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, August 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2021
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2016
Boundaries.....Multiple sources; see metadata file 2013 - 2021

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

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
0.5 0 MILES 0.5 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

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

ADJOINING QUADRANGLES
1 Canutillo
2 North Franklin Mountain
3 Fort Bliss NE
4 Smeltertown
5 Fort Bliss SE
6 Ysleta NW
7 Ysleta

EL PASO, TX, CHH
2022

Appendix A, Attachment 5

Supplemental Permit Information Form (SPIF)

Section pg. 14

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: El Paso Water Utilities

   Permit No. WQ00 0010408009 EPA ID No. TX 0087149

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

   701 Executive Center Boulevard, El Paso, TX, 79922, El Paso 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): Mr.

First and Last Name: Angel Bustamante

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

Title: Wastewater Systems Division Manager

Mailing Address: 9751 Pan American Dr.

City, State, Zip Code: El Paso, TX 79927

Phone No.: 915-487-7739 Ext.: Click here to enter text. Fax No.: 915-790-0547

E-mail Address: abustamante@epwater.org

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

N/A

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

Effluent is discharged to an unnamed arroyo, thence to the Rio Grande above International Dam in Segment 2314 of the Rio Grande 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:

N/A

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

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

N/A

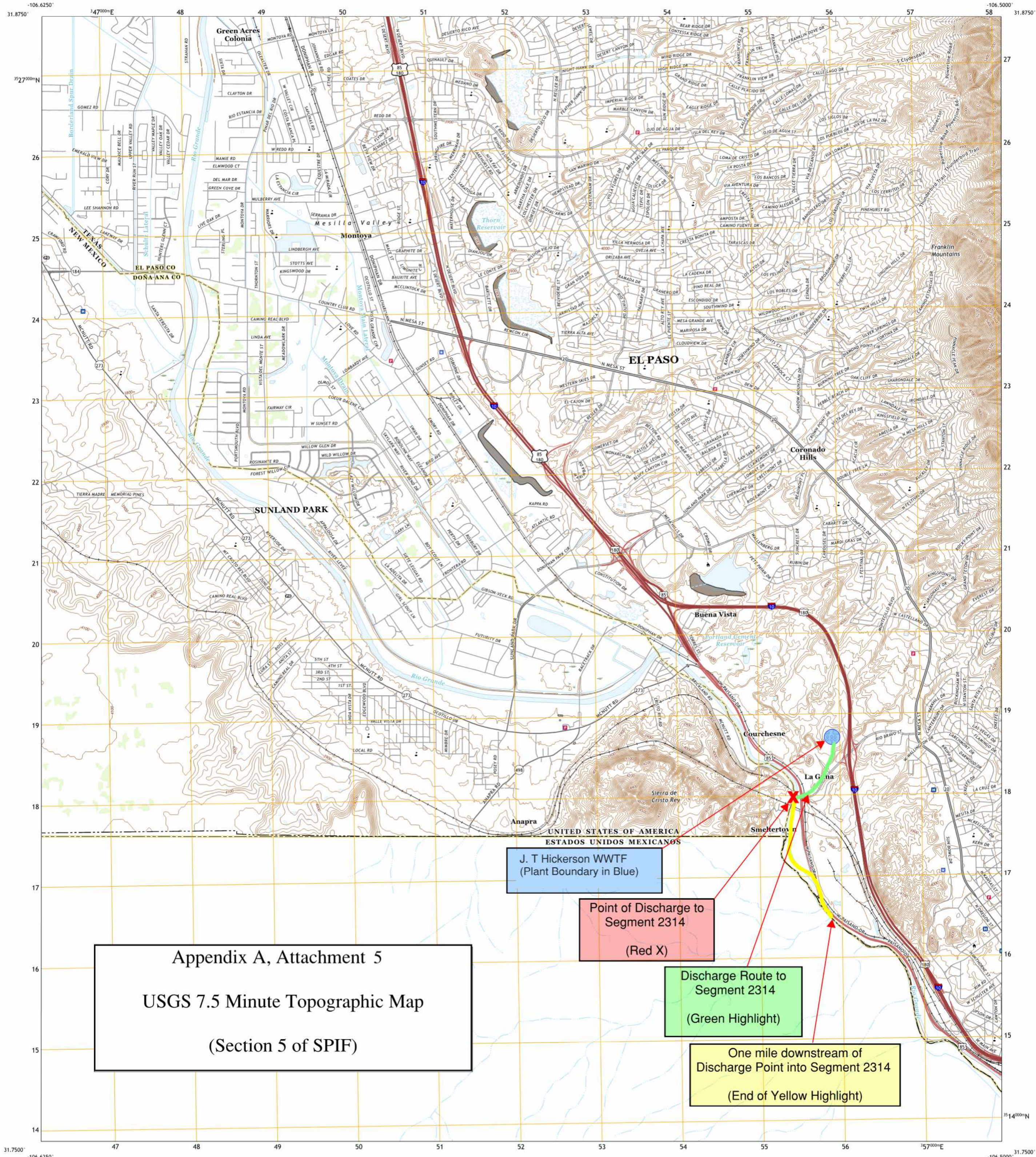
4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

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

The National Map
US Topo

SMELTERTOWN QUADRANGLE
TEXAS - NEW MEXICO
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 13R
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, May 2016 - November 2016
Roads....U.S. Census Bureau, 2015 - 2018
Names....GNIS, 1979 - 2018
Hydrography....National Hydrography Dataset, 2003 - 2005
Contours....National Elevation Dataset, 2016
Boundaries....Multiple sources; see metadata file 2016 - 2017
Public Land Survey System....BLM, 2016
Wetlands....FWS National Wetlands Inventory 1984

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 La Union
2 Canutillo
3 North Franklin Mountain
4 Strauss
5 El Paso
6 Ysleta NW

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

SMELTERTOWN, TX, NM, CHH
2019

NSN. 7643016398323
NGA REF NO. USGSX24K71634

10054 Domestic Wastewater Permit Application Technical

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): N/A

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

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): 17.5

2-Hr Peak Flow (MGD): 35

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: January 1987

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 John T. Hickerson (Northwest) WRF consists of preliminary, secondary and disinfection treatment processes. The preliminary treatment (headworks) is where bar screens remove still material from the raw wastewater. Next on the preliminary treatment is the grit removal process, in which wastewater flows into three grit removal chambers to remove fine particles. The grit is further treated in a separator (cyclone) and classifier. The following treatment process is the secondary treatment which starts at the aeration basin channel. The headworks effluent mixes with return activated sludge and flows into the aeration basin channel. Agitation air is introduced into the channel to prevent solids from settling. The flow at the channel makes its way into the aeration tanks for biological treatment. All zones are aerobic (aerated) and provided with a tapered diffuser layout. The west train consists of three aeration basins, and the east train consists of three 3-pass aeration basins. From the aeration tanks, mixed liquor flows to the secondary clarifiers, where solids, microbes and other particles settle to the bottom. After the secondary clarifiers the solid and sludge handling begins. The solids removed from the clarifiers are thickened in two dissolved air flotation thickener (DAFT) tanks. Sludge is held in these tanks to allow downstream belt filter presses to operate. The sludge at the belt filter presses is dewatered and thickened prior to lime stabilization. The lime stabilization system ensures that the sludge meets the Class B requirements for landfill disposal. The sludge phase ends with two sludge hoppers that provide storage and delivery to truck containers for hauling. The water handling continues with the secondary effluent from the clarifiers, filtered and disinfected using ultraviolet technology. After disinfection, the effluent is delivered through a Parshall flume and then to a post-aeration cascade to achieve the minimum effluent dissolved oxygen requirement. The plant effluent (outfall) pipeline discharges at the segment 2314, Rio Grande Above International Dam and to the adjacent reclaimed water pump station to deliver reclaimed water to parks in the west side of El Paso, TX.

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)
Appendix B, Attachment 1		

C. Process Flow Diagram

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

Attachment: Appendix B, Attachment 2

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

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

- Latitude: 31.788403

- Longitude: -106.526658

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: Appendix B, Attachment 3.1, 3.2, and 3.2B

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

The John T. Hickerson (Northwest) WRF located at El Paso, TX serves the northwest region of the Franklin Mountains. The plant processes wastewater from the Northwest service area including subdivisions located at the west side of the city such as, Mesa Hills, Festival Hills, Upper Mesa Hills, High Ridge, South Belvidere.

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
The John T. Hickerson (Northwest)	El Paso Water Utilities Public Service Board	Publicly Owned	121,000
		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.**

Click to enter text.

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.

Click to enter text.

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: Click to enter text.

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.

Buffer zone requirements have been met by property ownership. See Appendix B, Attachment 3.3

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*.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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 D022 or TXRNE Click to enter text.

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:

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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.
Click to enter text.

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 the 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.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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). ***Water 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	7	29	30	Composite	06/01/24 - 06/30/24
Total Suspended Solids, mg/l	4	18	30	Composite	06/01/24 - 06/30/24
Ammonia Nitrogen, mg/l	1.62	10.85	30	Composite	06/01/24 - 06/30/24
Nitrate Nitrogen, mg/l	16.9	19.3	3	Composite	06/05/24, 06/12/24, 06/26/24
Total Kjeldahl Nitrogen, mg/l	2.98	4.98	3	Composite	06/05/24, 06/12/24, 06/26/24
Sulfate, mg/l	293	298.8	3	Composite	06/05/24, 06/12/24, 06/26/24
Chloride, mg/l	279.6	280.7	3	Composite	06/05/24, 06/12/24, 06/26/24
Total Phosphorus, mg/l	3.7	4.0	3	Composite	06/05/24, 06/12/24, 06/26/24
pH, standard units	7.2	7.4	30	Grab	06/01/24 - 06/30/24
Dissolved Oxygen*, mg/l	7.2	7.6	30	Grab	06/01/24 - 06/30/24
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
E.coli (CFU/100ml) freshwater	30	435	30	Grab	06/01/24 - 06/30/24

Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	1197	1352	30	Composite	06/01/24 - 06/30/24
Electrical Conductivity, µmohs/cm, †	1936	2191	30	Composite	06/01/24 - 06/30/24
Oil & Grease, mg/l		<40	1	Grab	09/13/2024
Alkalinity ($CaCO_3$)*, mg/l	122.7	138.2	3	Composite	06/05/24, 06/12/24, 06/26/24

*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					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Sergio Castro

Facility Operator's License Classification and Level: TCEQ Class A Wastewater Operations Certification

Facility Operator's License Number: TCEQ License Number WW0047093

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: Click to enter text.

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 Handler or Preparer	Bulk	1,475	Class B: PSRP Lime Stabilization	Option 6: pH >=12 for 2 hrs and retain at 11.5 for 22 hrs

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
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): Click to enter text.

D. Disposal site

Disposal site name: Cerro Alto Monofill

TCEQ permit or registration number: WQ0004636000, Reg. No. 42036

County where disposal site is located: Hudspeth County, TX

E. Transportation method

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

Name of the hauler: GCC Sun City Materials

Hauler registration number: RN109604413

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: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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: Click to enter text.

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:

Click to enter text.

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: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

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.

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

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: Click to enter text.

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:

Reclaimed Water Authorization No. R10408-009 for the use of reclaimed water.

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:

Click to enter text.

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: Click to enter text.

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: John Balliew

Title: President/Chief Executive Officer

Signature: _____

Date: 1/22/25

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: El Paso Water Public Service Board

Distance and direction to the intake: 3.4 mi. Southeast

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

Attachment: Appendix B, Attachment 5

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: Click to enter text.

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).

Click to enter text.

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).

Click to enter text.

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: N/A

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: N/A

C. Downstream perennial confluences

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

Click to enter text.

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.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

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: Click to enter text.

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: Click to enter text.

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 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: 2/14/23, 3/21/23, 08/08/23, 10/17/23

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile		<10	3	50
Aldrin		<0.01	2	0.01
Aluminum		19.8	4	2.5
Anthracene		<2.5	2	10
Antimony		<1.0	4	5
Arsenic	5.3	5.9	4	0.5
Barium	30.25	35.4	4	3
Benzene		<1.0	3	10
Benzidine		<10	2	50
Benzo(a)anthracene		<2.5	2	5
Benzo(a)pyrene		<2.5	2	5
Bis(2-chloroethyl)ether		<2.5	2	10
Bis(2-ethylhexyl)phthalate		<5	2	10
Bromodichloromethane		<1.0	3	10
Bromoform		<1.0	3	10
Cadmium		<0.5	4	1
Carbon Tetrachloride		<3.0	3	2
Carbaryl		<3.0	3	5
Chlordane*		<0.02	2	0.2
Chlorobenzene		<1.0	3	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane		<1.25	3	10
Chloroform		<1.0	3	10
Chlorpyrifos		<0.0494	2	0.05
Chromium (Total)		<1.0	4	3
Chromium (Tri) **(*1)**		<1.0	4	N/A
Chromium (Hex)		4.3	4	3
Copper	3.4	4.5	4	2
Chrysene		<2.5	2	5
p-Chloro-m-Cresol		<2.5	2	10
4,6-Dinitro-o-Cresol		<5	2	50
p-Cresol				10
Cyanide **(*2)**		20	4	10
4,4'- DDD		<0.01	2	0.1
4,4'- DDE		<0.01	2	0.1
4,4'- DDT		<0.01	2	0.02
2,4-D		<0.49	2	0.7
Demeton (O and S)		<0.0494	2	0.20
Diazinon		<0.0494	2	0.5/0.1
1,2-Dibromoethane		<2.0	3	10
m-Dichlorobenzene		<1.0	3	10
o-Dichlorobenzene		<1.0	3	10
p-Dichlorobenzene		<1.0	3	10
3,3'-Dichlorobenzidine		<5	2	5
1,2-Dichloroethane		<1.0	3	10
1,1-Dichloroethylene		<1.0	3	10
Dichloromethane		<1.0	3	20
1,2-Dichloropropane		<1.0	3	10
1,3-Dichloropropene				10
Dicofol		<0.10	2	1
Dieldrin		<0.01	2	0.02
2,4-Dimethylphenol		<5	2	10
Di-n-Butyl Phthalate		<2.5	2	10
Diuron		<0.08	2	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)		<0.1	2	0.01
Endosulfan II (beta)		<0.1	2	0.02
Endosulfan Sulfate		<0.1	2	0.1
Endrin		<0.1	2	0.02
Ethylbenzene		<1.0	3	10
Fluoride		<1000	2	500
Guthion		<0.0494	2	0.1
Heptachlor		<0.01	2	0.01
Heptachlor Epoxide		<0.01	2	0.01
Hexachlorobenzene		<2.5	2	5
Hexachlorobutadiene		<2.5	2	10
Hexachlorocyclohexane (alpha)		<0.01	2	0.05
Hexachlorocyclohexane (beta)		<0.01	2	0.05
gamma-Hexachlorocyclohexane (Lindane)		<0.01	2	0.05
Hexachlorocyclopentadiene		<10	2	10
Hexachloroethane		<2.5	2	20
Hexachlorophene		<10	2	10
Lead		<0.5	4	0.5
Malathion		<0.0494	2	0.1
Mercury	0.000915	0.00158	4	0.005
Methoxychlor		<0.00987	2	2
Methyl Ethyl Ketone		<25	3	50
Mirex		<0.0148	2	0.02
Nickel	1.45	1.7	4	2
Nitrate-Nitrogen		11200	2	100
Nitrobenzene		<2.5	2	10
N-Nitrosodiethylamine		<2.5	2	20
N-Nitroso-di-n-Butylamine		<2.5	2	20
Nonylphenol		<5	2	333
Parathion (ethyl)		<0.0494	2	0.1
Pentachlorobenzene		<2.5	2	20
Pentachlorophenol		<5	2	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene		<2.5	2	10
Polychlorinated Biphenyls (PCB's) **(*3)**		<2.0	14	0.2
Pyridine		<2.5	2	20
Selenium		<1.0	4	5
Silver		<0.5	4	0.5
1,2,4,5-Tetrachlorobenzene		<2.5	2	20
1,1,2,2-Tetrachloroethane		<1.0	3	10
Tetrachloroethylene		<1.0	3	10
Thallium		<3.0	4	0.5
Toluene		<1.0	3	10
Toxaphene		<0.1920	2	0.3
2,4,5-TP (Silvex)		<0.293	2	0.3
Tributyltin (see instructions for explanation)		N/A	N/A	0.01
1,1,1-Trichloroethane		<1.0	3	10
1,1,2-Trichloroethane		<1.0	3	10
Trichloroethylene		<1.0	3	10
2,4,5-Trichlorophenol		<2.5	2	50
TTHM (Total Trihalomethanes)		2.1	3	10
Vinyl Chloride		<1.0	3	10
Zinc	22.63	27.1	4	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: **2/14/23, 3/21/23, 08/08/23, 10/17/23**

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		<1.0	4	5
Arsenic	5.3	5.9	4	0.5
Beryllium		<5.0	4	0.5
Cadmium		<5.0	4	1
Chromium (Total)		<5.0	4	3
Chromium (Hex)		<1.0	4	3
Chromium (Tri) **(*1)**		<1.0	4	N/A
Copper	3.4	4.5	4	2
Lead		<0.5	4	0.5
Mercury	0.00091575	0.000704	4	0.005
Nickel	1.45	1.7	4	2
Selenium		<1.0	4	5
Silver		<0.5	4	0.5
Thallium		<3.0	4	0.5
Zinc	22.6	27.1	4	5
Cyanide **(*2)**		20	4	10
Phenols, Total		<10	4	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		<10	3	50
Acrylonitrile		<10	3	50
Benzene		<1.0	3	10
Bromoform		<1.0	3	10
Carbon Tetrachloride		<3.0	3	2
Chlorobenzene		<1.0	3	10
Chlorodibromomethane		<1.25	3	10
Chloroethane		<1.0	3	50
2-Chloroethylvinyl Ether		<5.0	3	10
Chloroform		<1.0	3	10
Dichlorobromomethane [Bromodichloromethane]		<1.0	3	10
1,1-Dichloroethane		<1.0	3	10
1,2-Dichloroethane		<1.0	3	10
1,1-Dichloroethylene		<1.0	3	10
1,2-Dichloropropane		<1.0	3	10
1,3-Dichloropropylene [1,3-Dichloropropene]		<2.0	3	10
1,2-Trans-Dichloroethylene		<1.0	3	10
Ethylbenzene		<1.0	3	10
Methyl Bromide		<5.0	3	50
Methyl Chloride		<1.0	3	50
Methylene Chloride		<1.0	3	20
1,1,2,2-Tetrachloroethane		<1.0	3	10
Tetrachloroethylene		<1.0	3	10
Toluene		<1.0	3	10
1,1,1-Trichloroethane		<1.0	3	10
1,1,2-Trichloroethane		<1.0	3	10
Trichloroethylene		<1.0	3	10
Vinyl Chloride		<1.0	3	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		<2.5	2	10
2,4-Dichlorophenol		<2.5	2	10
2,4-Dimethylphenol		<5	2	10
4,6-Dinitro-o-Cresol		<5	2	50
2,4-Dinitrophenol		<5	2	50
2-Nitrophenol		<2.5	2	20
4-Nitrophenol		<5	2	50
P-Chloro-m-Cresol		<2.5	2	10
Pentalchlorophenol		<5	2	5
Phenol		<2.5	2	10
2,4,6-Trichlorophenol		<2.5	2	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		<2.5	2	10
Acenaphthylene		<2.5	2	10
Anthracene		<2.5	2	10
Benzidine		<10	2	50
Benzo(a)Anthracene		<2.5	2	5
Benzo(a)Pyrene		<2.5	2	5
3,4-Benzofluoranthene		<2.5	2	10
Benzo(ghi)Perylene		<2.5	2	20
Benzo(k)Fluoranthene		<2.5	2	5
Bis(2-Chloroethoxy)Methane		<2.5	2	10
Bis(2-Chloroethyl)Ether		<2.5	2	10
Bis(2-Chloroisopropyl)Ether		<2.5	2	10
Bis(2-Ethylhexyl)Phthalate		<5	2	10
4-Bromophenyl Phenyl Ether		<2.5	2	10
Butyl benzyl Phthalate		<2.5	2	10
2-Chloronaphthalene		<2.5	2	10
4-Chlorophenyl phenyl ether		<2.5	2	10
Chrysene		<2.5	2	5
Dibenzo(a,h)Anthracene		<2.5	2	5
1,2-(o)Dichlorobenzene		<1.0	3	10
1,3-(m)Dichlorobenzene		<1.0	3	10
1,4-(p)Dichlorobenzene		<1.0	3	10
3,3-Dichlorobenzidine		<5	2	5
Diethyl Phthalate		<2.5	2	10
Dimethyl Phthalate		<2.5	2	10
Di-n-Butyl Phthalate		<2.5	2	10
2,4-Dinitrotoluene		<5	2	10
2,6-Dinitrotoluene		<5	2	10
Di-n-Octyl Phthalate		<2.5	2	10
1,2-Diphenylhydrazine (as Azo-benzene)		<2.5	2	20
Fluoranthene		<2.5	2	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene		<2.5	2	10
Hexachlorobenzene		<2.5	2	5
Hexachlorobutadiene		<2.5	2	10
Hexachlorocyclo-pentadiene		<10	2	10
Hexachloroethane		<2.5	2	20
Indeno(1,2,3-cd)pyrene		<2.5	2	5
Isophorone		<2.5	2	10
Naphthalene		<2.5	2	10
Nitrobenzene		<2.5	2	10
N-Nitrosodimethylamine		<2.5	2	50
N-Nitrosodi-n-Propylamine		<2.5	2	20
N-Nitrosodiphenylamine		<2.5	2	20
Phenanthrene		<2.5	2	10
Pyrene		<2.5	2	10
1,2,4-Trichlorobenzene		<2.5	2	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		<0.01	2	0.01
alpha-BHC (Hexachlorocyclohexane)		<0.01	2	0.05
beta-BHC (Hexachlorocyclohexane)		<0.01	2	0.05
gamma-BHC (Hexachlorocyclohexane)		<0.01	2	0.05
delta-BHC (Hexachlorocyclohexane)		<0.01	2	0.05
Chlordane		<0.02	2	0.2
4,4-DDT		<0.01	2	0.02
4,4-DDE		<0.01	2	0.1
4,4,-DDD		<0.01	2	0.1
Dieldrin		<0.01	2	0.02
Endosulfan I (alpha)		<0.01	2	0.01
Endosulfan II (beta)		<0.01	2	0.02
Endosulfan Sulfate		<0.01	2	0.1
Endrin		<0.01	2	0.02
Endrin Aldehyde		<0.01	2	0.1
Heptachlor		<0.01	2	0.01
Heptachlor Epoxide		<0.01	2	0.01
PCB-1242		<0.2	2	0.2
PCB-1254		<0.2	2	0.2
PCB-1221		<0.2	2	0.2
PCB-1232		<0.2	2	0.2
PCB-1248		<0.2	2	0.2
PCB-1260		<0.2	2	0.2
PCB-1016		<0.2	2	0.2
Toxaphene		<0.1920	2	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.

Click to enter text.

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.

Click to enter text.

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: Click to enter text.

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					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: 35

48-hour Acute: 18

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 Appendix B, Attachment		

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: 2

Average Daily Flows, in MGD: 0.19

Significant IUs – non-categorical:

Number of IUs: 2

Average Daily Flows, in MGD: 0.04

Other IUs:

Number of IUs: 3

Average Daily Flows, in MGD: 0.48

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.

Click to enter text.

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.

Click to enter text.

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.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

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
See Appendix B.8				

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.

Click to enter text.

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: Click to enter text.

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: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

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.

Click to enter text.

Appendix B, Attachment 1

Type and Dimensions of Treatment Units

Section 2.B of worksheet 1.0 pg. 2

Appendix B Attachment 1 – Type and Dimensions of Treatment Units

John T. Hickerson WRF -WQ0010408009

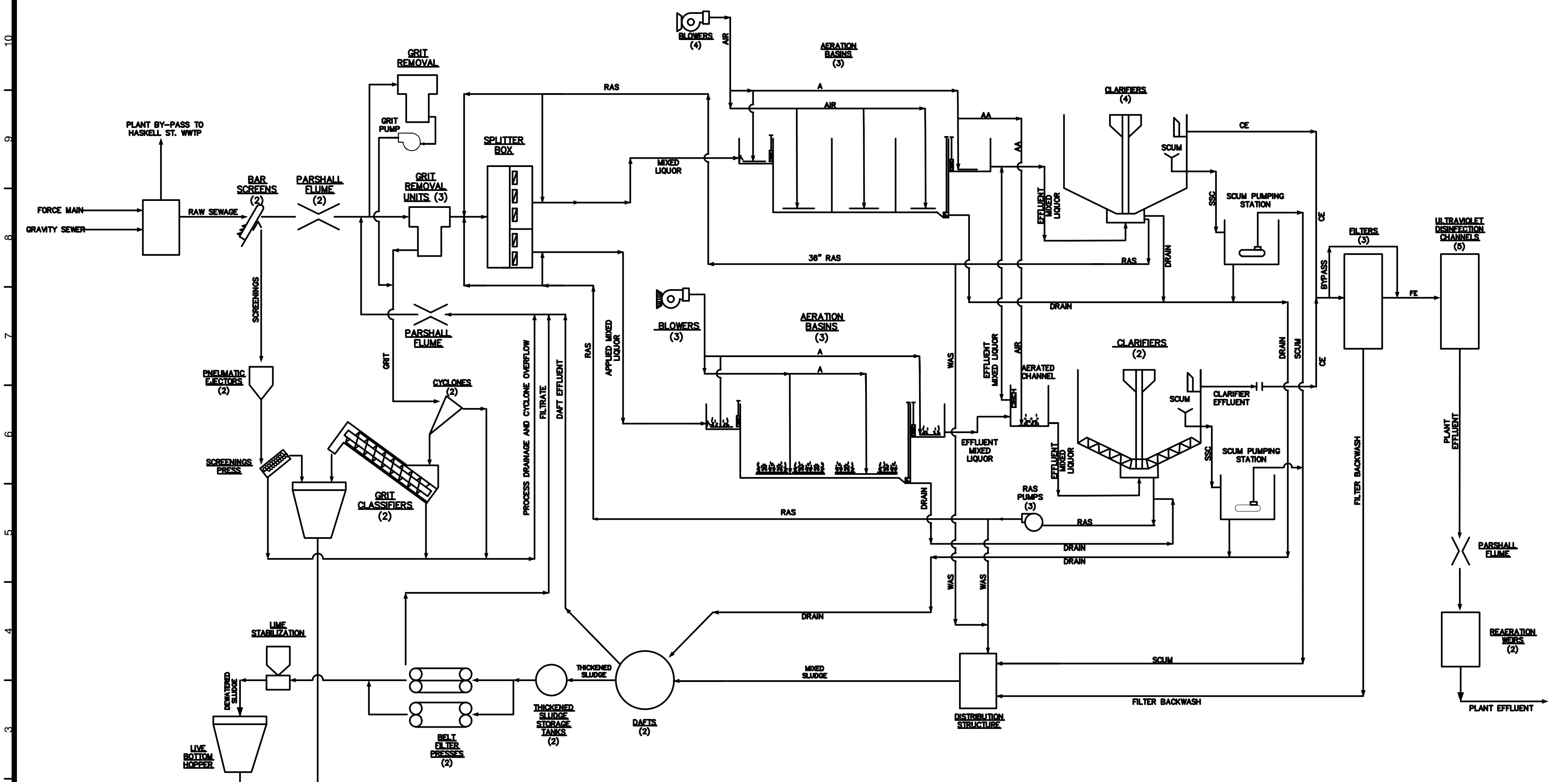
Table 1.0(1) – Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Climber Bar Screens	2	5’W x 30’H x 5’6” D
Grit Separators	2	16’ Diameter x 12’4” D
Aeration Basins	3	15’ x 25’ x 178’
Aeration Basins	3	15’ x 45’ x 145’
Secondary Clarifiers	2	100’ Diameter x 14’
Secondary Clarifiers	4	100’ Diameter x 16’
Disk Filter System	4	6’10” x 16’ x 53’
Shallow Sand Filter	1	6’10” x 16’ x 106’
UV Disinfection Channels	5	6’3” x 5’3” x 26’
DRAFT Units	2	13’ Diameter x 26’
Sludge Storage Tanks	2	15’ Diameter 23’
Sludge Dewatering Presses	3	2.2-Meter-Wide Belts
Re-aeration Basin	1	19’13” x 20’

Appendix B, Attachment 2

Process Flow Diagram

Section 2.C of worksheet 1.0 pg. 2



JOHN T. HICKERSON WRF
GENERAL PROCESS SCHEMATIC

DATE	REVISIONS	BY

SCALE
LINE IS 2 INCHES AT FULL SCALE
(IF NOT 2" - SCALE ACCORDINGLY)
HOR: VER:
W.O. 041420-8
DATE: JANUARY 2024
DESIGN BY: IR
DRAWN BY: AA / JH
CHKD. BY: RGB
APPD. BY: STM

H2 Terra
ENGINEERING. SURVEYING. SOLUTIONS.
TBPE FIRM NO. F-2103 TBPLS FIRM NO. 10080700
2020 E. MILLS AVENUE El Paso, TX 79901
(915) 533-1418 FAX: (915) 533-4972

el paso WATER

Appendix B, Attachment 2
Process Flow Diagram Section 2.C

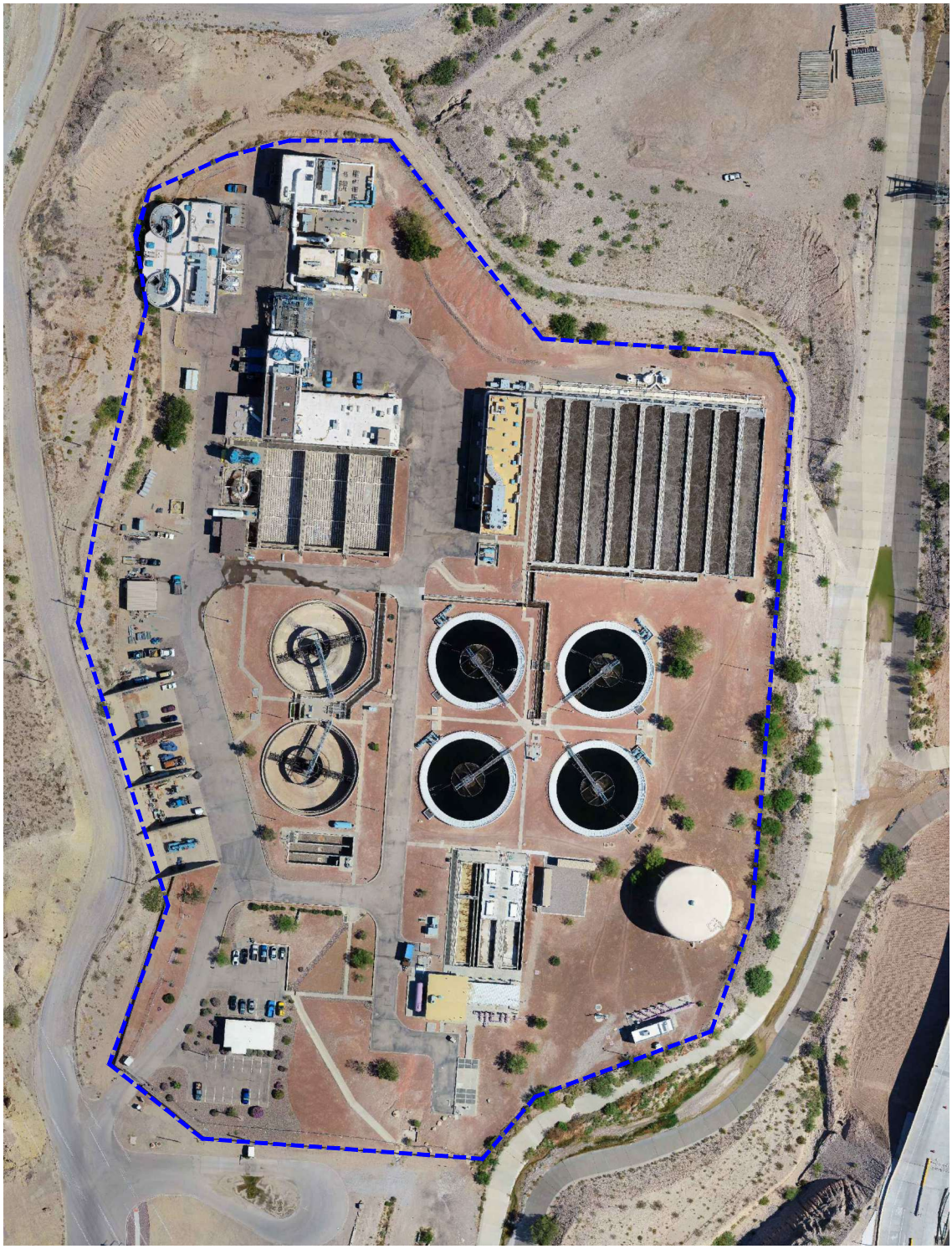
DRAWING NUMBER

SHEET No.

Appendix B, Attachment 3.1

Site Drawing

Section 3 of worksheet 1.0 pg. 3



LEGEND

WWTP BOUNDARY

NORTH

GRAPHIC SCALE

150 0 75 150 300

(IN FEET)

1 inch = 150 ft.

el paso WATER

JOHN T. HICKERSON WATER RECLAMATION FACILITY PLANT BOUNDARIES

H_2 Terra

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TBPE FIRM No. F-2103 TBPLS FIRM No. 10060700

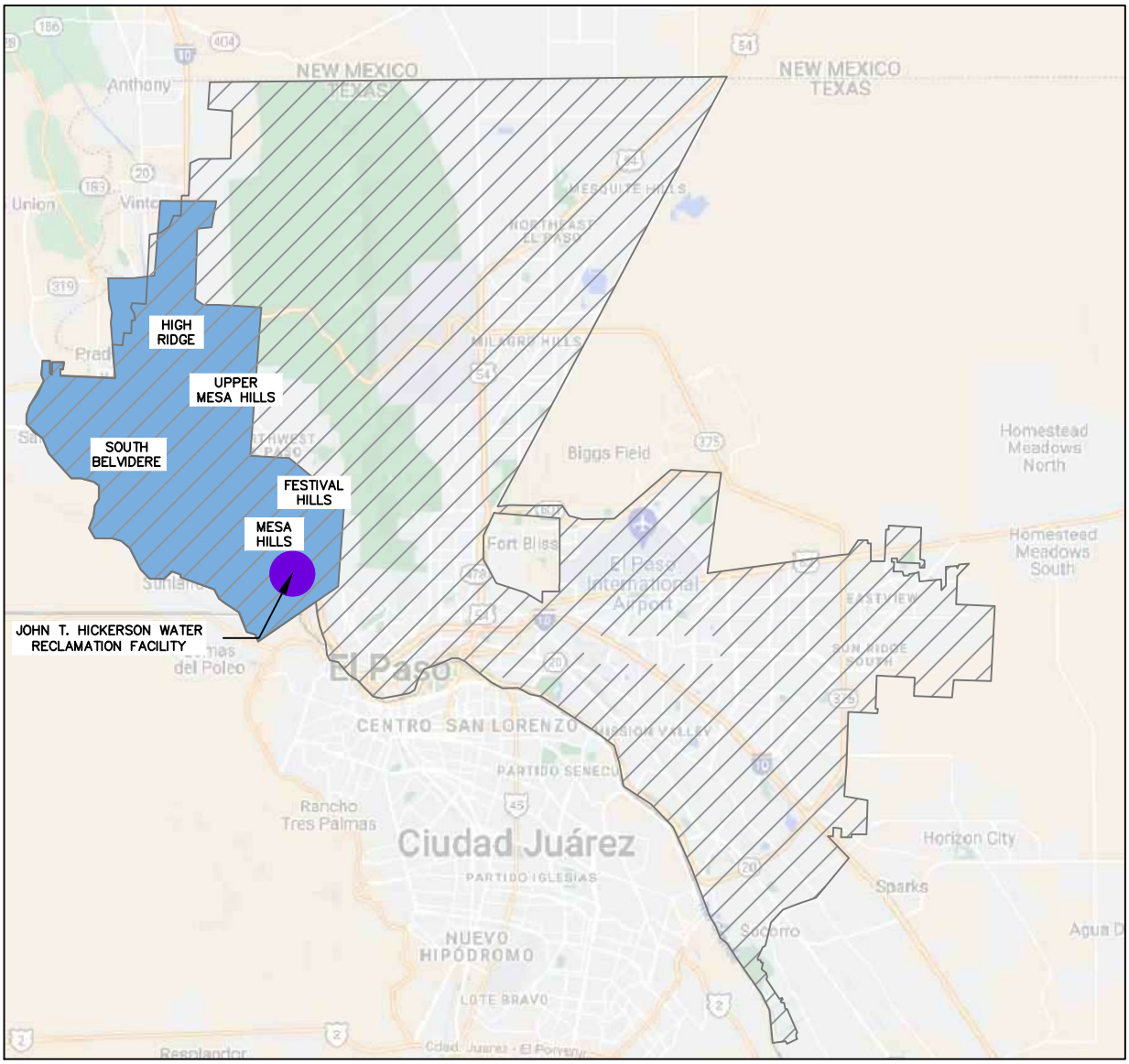
APPENDIX B
ATTACHMENT
3.1

Project: 112823-6
City: El Paso Last saved by: Andhi Last saved date: September 13, 2024 2:57 PM
File Location: \\SERVER\Clients\El Paso Water\112823-6 JTHWRF Permit Renewal\07-CADD\01-Exhibits_Maps_Resource Files\Site Boundary.dwg

Appendix B, Attachment 3.2

Service Area

Section 3 of worksheet 1.0 pg. 3



LEGEND

- RECLAMATION FACILITY
- HICKERSON SERVICE AREA
- CITY OF EL PASO LIMITS

NORTH

GRAPHIC SCALE
500 0 250 500 1000
(IN FEET)
1 inch = 150 ft.

el paso WATER

JOHN T. HICKERSON WATER RECLAMATION FACILITY SERVICE AREA

H_2 Terra
ENGINEERING. SURVEYING. SOLUTIONS.
TBPE FIRM No. F-2103 TBPLS FIRM No. 10060700

APPENDIX B
ATTACHMENT
3.2

Project: 112823-6
City: El Paso Last saved by: Workstation Last saved date: January 16, 2024 11:14 AM
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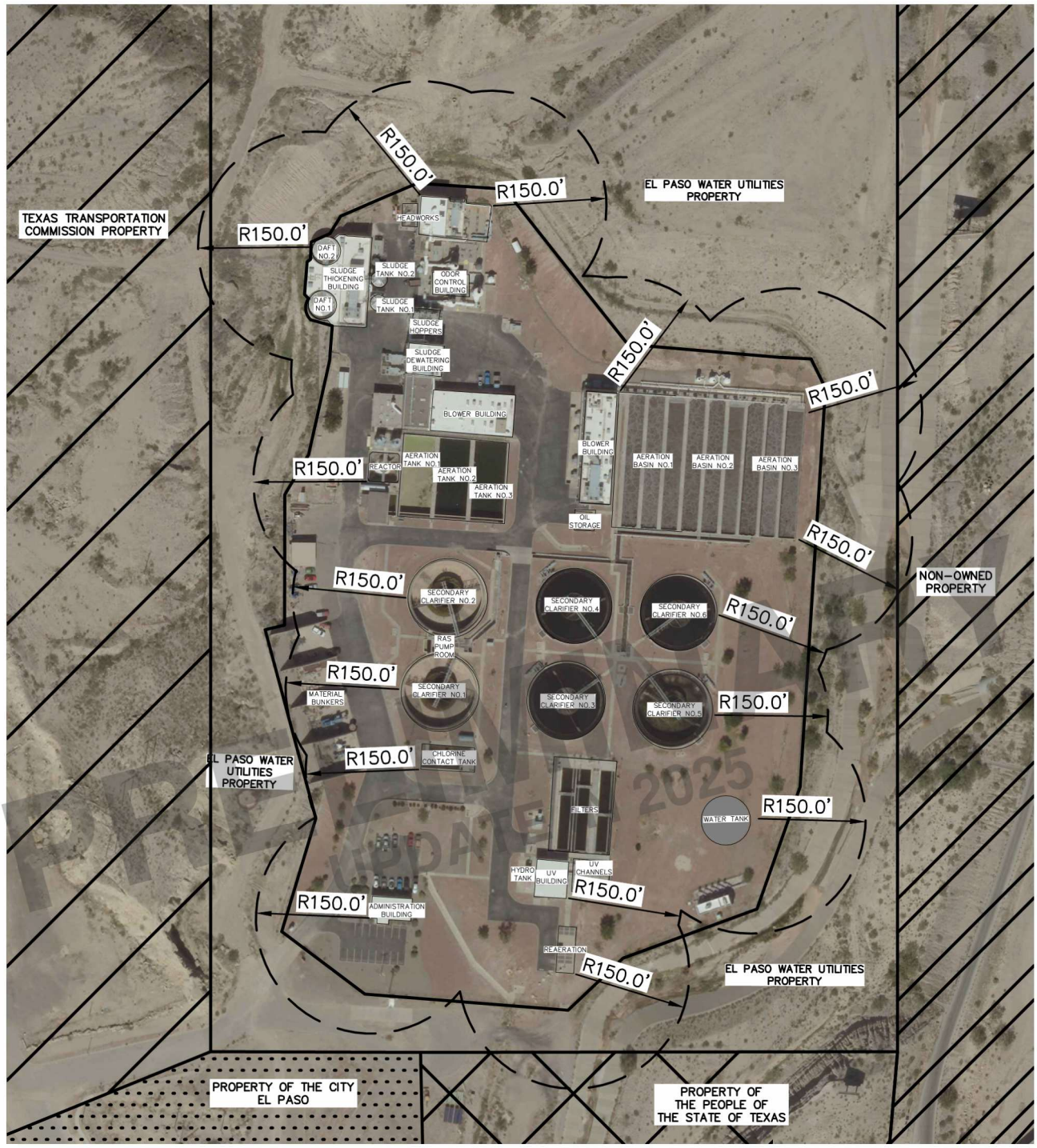
Appendix B, Attachment 3.3

Buffer Zone

Section 6.B of worksheet 1.0 pg. 5



LEGEND

- JOHN T. HICKERSON WRF SITE BOUNDARY
- EL PASO WATER UTILITIES PROPERTY BOUNDARY
- PROPERTY OF TEXAS TRANSPORTATION COMMISSION
- PROPERTY OF THE CITY OF EL PASO
- PROPERTY OF THE PEOPLE OF THE STATE OF TEXAS
- NON-OWNED PROPERTY
- 150' RADIUS-BUFFER ZONE

NORTH

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

1 inch = 200 ft.

el paso WATER

JOHN T. HICKERSON WATER RECLAMATION FACILITY BUFFER ZONE

H2 Terra

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TBPE FIRM No. F-2103 TBPLS FIRM No. 10060700

APPENDIX B
ATTACHMENT
3.3

Project: 112823-6
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Appendix B, Attachment 4

Pollutant Analysis

Section 7 of worksheet 1.0 pg. 10

EL PASO WATER
JOHN T. HICKERSON WRF
FINAL EFFLUENT

Appendix B, Attachment 4
Pollutant Analysis Section 7 of worksheet 1 pg. 10

Month, Year: June *2024*

DATE	COMPOSITES			GRAB				PLANT FLOW	FLOW TO R.G.											
	CBOD mg/l	TSS mg/l	NH3-N mg/l	E. coli #/100ml	pH	D.O. mg/l	TEMP °C	mgd	mgd	NH3-N lbs/day	CBOD lbs/day	TSS lbs/day	Total Kjeldahl Nitrogen mg/L	Sulfate mg/L	Chloride mg/L	Total Phosphorus mg/L	TDS mg/L	Conductivity umohs/cm	Alkanility mg/L	Nitrate-N
1	16	10	8.10	41	7.2	6.9	27.7	8.16	5.62	551	1062	708					1352	2191		
2	29	18	10.85	435	7.3	6.3	27.5	8.16	6.28	738	1994	1252					1336	2188		
3	13	9	3.34	182	7.2	6.5	27.6	7.59	5.53	212	823	595					1224	2020		
4	12	6	2.81	8	7.1	7.1	27.2	6.47	4.05	152	648	297					1196	1908		
5	12	4	1.11	4	7.2	6.9	27.9	7.10	4.66	65	711	213	4.98	285.0	280.74	4.0	1148	1886	138.2	15.6
6	8	3	0.50	2	7.1	7.4	27.8	7.63	5.57	32	503	178					1136	1886		
7	6	2	1.08	2	7.1	7.6	28.0	8.07	5.21	72	431	148					1136	1870		
8	4	3	4.00	3	7.2	7.1	27.3	9.47	7.04	316	348	205					1136	1892		
9	5	2	5.06	68	7.2	6.7	27.4	9.67	7.37	408	371	194					1176	1926		
10	2	2	1.01	3	7.3	7.0	27.3	8.66	6.60	73	152	166					1160	1893		
11	8	3	0.50	2	7.2	7.0	27.9	8.16	6.06	34	517	170					1128	1863		
12	6	2	0.50	10	7.2	6.9	28.5	6.76	4.23	28	327	107	<2	298.8	280.54	3.7	1164	1877	118.8	15.7
13	5	3	0.50	1	7.2	6.9	28.3	7.16	4.23	30	269	173					1176	1870		
14	7	2	0.54	25	7.2	7.2	28.5	6.67	4.79	30	362	128					1188	1922		
15	6	2	0.50	7	7.2	7.2	29.3	6.89	4.35	29	339	126					1220	1938		
16	5	3	0.50	5	7.2	7.4	28.9	6.16	4.44	26	247	139					1224	1902		
17	4	2	0.58	8	7.2	7.4	28.6	7.43	5.59	36	217	143					1224	1943		
18	2	2	0.50	8	7.2	7.4	28.1	6.85	4.17	29	114	109					1200	1936		
19	4	3	0.50	8	7.3	7.5	28.5	7.55	5.43	31	220	164					1228	1931		
20	4	2	0.50	7	7.2	6.6	27.4	8.41	5.36	35	281	126					1304	1918		
21	3	2	0.50	3	7.2	7.1	26.4	7.42	4.90	31	173	118					1208	1923		
22	5	1	0.50	10	7.2	7.4	28.5	7.17	5.12	30	323	78					1168	1920		
23	6	2	0.50	2	7.2	7.5	29.3	8.50	6.74	35	390	106					1176	1945		
24	4	2	0.50	3	7.2	7.4	29.4	7.61	5.93	32	254	140					1192	1949		
25	4	2	0.50	1	7.2	7.5	29.5	7.32	5.40	31	269	98					1204	1937		
26	4	2	0.50	2	7.2	7.6	28.9	8.16	5.81	34	299	163	<2	296.0	277.5	3.3	1212	1923	111.0	19.3
27	6	3	0.50	30	7.2	7.5	28.6	7.78	5.82	32	389	195					1204	1934		
28	4	2.3	0.50	16	7.4	7.4	29.5	8.31	6.23	35	305	159					1188	1921		
29	5	3	1.08	5	7.2	7.3	29.6	8.99	6.63	81	367	232					1136	1919		
30	6	5	0.56	1	7.2	7.5	29.2	8.44	6.44	39	394	380					1164	1956		
TOT.	203	107	48.62	900	216.2	215.2	848.6	232.720	165.589	3308	13096	7010	9	880	839	11	35908	58087	368.1	50.6
AVG	7	4	1.62	30	7.2	7.2	28.3	7.76	5.52	110	437	234	2.98	293	279.6	3.7	1197	1936	122.7	16.9
MAX	29	18	10.85	435	7.4	7.6	29.6	9.67	7.37	738	1994	1252	4.98	298.8	280.7	4.0	1352	2191	138.2	19.3
MIN	2	1	0.50	1	7.1	6.3	26.4	6.16	4.05	26	114	78	<2	285.0	277.5	3.3	1128	1863	111.0	15.6

Appendix B, Attachment 4
Pollutant Analysis Section 7 of worksheet 1 pg. 10
Oil & Grease

CHAIN OF CUSTODY RECORD

International Water Quality Laboratory
4100-L Delta Drive, El Paso, TX 79905
Tel: 915.594-5735 Fax: 915.594.5429

56105

WO: JH-RAW HEM PERMIT 09/12/24

24-30195

Laboratory Number

Date & Time Received at Laboratory

Collected By:	Robert M. Gutierrez	Date & Time:	09-12-24 - 0715
Delivered By:	K-10YA	Date & Time:	9-12-24 0715
Received By:		Date & Time:	
Delivered By:		Date & Time:	
Received at Lab By:	VRG	Date & Time:	09-12-24 0851

GENERAL INFORMATION

Tamper Seal		*Matrix*		*Sample Description*		*Turn-Around-Time Requested*	
	Present		Water		Grab	X	21-Day
X	Absent	X	Wastewater	X	Composite/Flow Proportional		14-Day
	Compromised		Sludge/Soil		Composite/Time Weighted		Other
			Other		Number of Aliquots		

RECEIPT INFORMATION

Temp Correction Factor (°C) -0.1 Original Temperature (°C) 22.9 Corrected Temperature (°C) 22.8

Thermometer ID IR CO34 ✓ Received on ICE [ ] NOT Received on ICE

Sampling Location & Address: **JTHWRF 701 Executive Center Blvd**

Sampling Point (Source): **RAW**

CLIENT INFORMATION

Requested By: Sergio Castro [ ] Contract Job Number:

Company / Section: EPWU SECTION 610 *Email Address:* SCASTRO@EPWATER.ORG

Address: 9751 Pan American Dr. Building C Telephone: 594-5476 Fax:

SAMPLE INFORMATION

Analyses Requested	Container			Preservation				
	Size	Type	Qty	Type	Traceability	pH	Traceability	Initials
HEM/SGT HEM	1L	Glass, Amber	3	HCL	1-37-9-24	<2	1-32-6-24	JOM/KLS
				Hexane	1-21-5-23			

FIELD ANALYSES

Analysis	Result	Date Collected	Time Collected	Analysis Date	Analysis Time	Initials
pH						
Temperature (°C)						
CL2-Free						
Conductivity						

COMMENTS:

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: John T. Hickerson Water Reclamation Facility
Project: JH-RAW HEM PERMIT 09/12/24 (56105)
Sampling Location:

El Paso Water
John T. Hickerson WWTP
701 Executive Center Blvd
El Paso, TX 79922
USA

Requested By: Sergio Castro
El Paso Water
9751 Pan American Dr.
Building C
El Paso, TX 79927
USA
scastro@EPWU.org

Ph: (915) 594-5476

Lab ID:	24-30195	**Collected:**	09/12/2024 07:15
Sample ID:	JH RAW	**Received:**	09/12/2024 08:51
Sampling Source:	Operations	**Reported:**	09/18/2024 17:21
Sample Type:	GRAB	**Matrix:**	Wastewater

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
EPA 1664A HEM Extractables										
HEM	<40.0	mg/L	1	40.0		09/13/2024 09:30	CGM	09/13/2024 09:30	CGM	
EPA 1664 SGT Extractables										
SGT-HEM	<40.0	mg/L	1	40.0		09/13/2024 13:30	CGM	09/13/2024 13:30	CGM	

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala
Laboratory Services Manager

Appendix B, Attachment 5

USGS Map of Domestic Drinking Water Supply

Section 1 of worksheet 2.0 pg. 25

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
The National Map US Topo
EL PASO QUADRANGLE
TEXAS - EL PASO COUNTY
7.5-MINUTE SERIES
FORT BLISS
Del Norte Acres
Mountain View
Sunrise Acres
Britton Davis
EL PASO
Biggs Army Airfield (Fort Bliss)
Planeport
FORT BLISS NATIONAL CEMETERY
Aero Vista
El Paso International Airport
Cielo Vista
Hag Hill
Winfrees Nose
Engineer Hill
Calsson Hill
Alfalfa
Lakeside
Mission Hills
Gold Hill
Crazycat Mtn
Comanche Peak
Ranger Peak
Flag Hill
Mt Franklin
Sugarloaf Mtn
Franklin Mountains
South Franklin Mtn
CHAMIZAL NATIONAL MEMORIAL
Concordia Cem
Evergreen Cem
Best Lawn Cem
UNITED STATES OF AMERICA
ESTADOS UNIDOS MEXICANOS
El Paso Water Robertson/Umnenhaur (Canal)
Water Treatment Plant Intake
Located approximately 3.4 miles Southeast of John T. Hickerson Wastewater Treatment Plant
Appendix B, Attachment 5
El Paso Water Drinking Water Supply Intake (page 28 of the Domestic Worksheet 2.0- Receiving Waters)
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 13R
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, August 2016 - November 2016
Roads U.S. Census Bureau, 2015 - 2018
Names GNIS, 1979 - 2018
Hydrography National Hydrography Dataset, 2003 - 2018
Contours National Elevation Dataset, 2016
Boundaries Multiple sources; see metadata file 2016 - 2017
Wetlands FWS National Wetlands Inventory 1984
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18
ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route
QUADRANGLE LOCATION
ADJOINING QUADRANGLES
1 Canutillo
2 North Franklin Mountain
3 Fort Bliss NE
4 Smeltertown
5 Fort Bliss SE
6 Ysleta NW
7 Ysleta
EL PASO, TX, CHH
2019
NGA REF NO. USGS X2 K 13816

Appendix B, Attachment 6

Toxic Pollutants

Section 1 of worksheet 4.0 pg. 43-53

Appendix B Attachment 6
Pollutant Analysis Requirements
Section 1 pg. 45-54

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

Reporting month/year: December 2022, **to** November 2023

TPDES Permit No.: WQ0010408-009 **Permittee:** El Paso Water Utilities-PSB **Treatment Plant:** John T. Hickerson Wastewater Treatment Facility

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
METALS, CYANIDE AND PHENOLS											
Antimony, Total-5		<1.0	<1.0	1.0	<1.0		20.1	<1.0	<1.0	<1.0	<1.0
Arsenic, Total-0.5	8.28	7.6	6.8	6.2	5.7	6.24	71.4	5	5.3	5.9	4.9
Beryllium, Total-0.5		<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<5.0	<0.5
Cadmium, Total-1	8.28	<0.5	<0.5	<0.5	<0.5	0.91	4.14	<0.5	<0.5	<5.0	<0.5
Chromium, Total-3	91.88	2.1	1.6	1.2	1.3	0.13	500	<1.0	<1.0	<1.0	<1.0
Chromium (Hex)		<3.0	<3.0	<3.0	<3.0		13.2	3.0	4.3	<3.0	<3.0
Chromium (Tri)[5] =Chromium, total-Chromium (Hex)		<2.1	<1.6	<1.2	<1.3		1971	<1.0	<1.0	<1.0	<1.0
Copper, Total-2	131.79	42.9	39.7	31	33.6	2.16	92.5	2.4	3	3.7	4.5
Lead, Total-0.5	49.70	1.2	1.5	0.6	1.5	0.17	24.4	<0.5	<0.5	<0.5	<0.5
Mercury, Total-0.005	0.02	0.075	0.0617	0.0611	0.176	32.97	0.0409	0.000704	0.000694	0.00158	0.000685
Nickel, Total-2	90.81	2.8	2.6	2.4	3	0.22	805	1.3	1.2	1.7	1.6

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Selenium, Total-5		<1.0	1.2	<1.0	<1.0	1.13	12.6	<1.0	<1.0	<1.0	<1.0
Silver, Total-0.5		<0.5	<0.5	<0.5	<0.5	0.03	19.3	<0.5	<0.5	<0.5	<0.5
Thallium, Total-0.5		<0.3	<0.3	<0.3	<0.3		0.402	<0.3	<3.0	<0.3	<0.3
Zinc, Total-5		136	122	103	66	3.23	884	17.7	22.6	23.1	27.1
Cyanide, Available [6]-10= Amenable Cyanide		<10	<10	<10	<10			<10	<10	13	<10
Cyanide, Total-10	81.34	<10.0	<5.0	16	20	0.23	27.0	<10.0	<5.0	13	20
Phenols, Total-10=average of 4 grabs (Phenolics)		73.4	40.9*	34.8	35			<10*	<10*	<10*	<10*
VOLATILE COMPOUNDS											
Acrolein-50		<10		<10*	<10*			<10*		<10*	<10*
Acrylonitrile-50e		<10		<10	<10		3.35	<10.		<10	<10
Benzene-10	145.35	<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
Bromoform-10		<1.0		<1.0	<1.0		224 (Total TTHM)	<1.0		<1.0	<1.0
Carbon Tetrachloride-2		<1.0		<2.0	<1.0		15.1	<1.0		<3.0	<1.0
Chlorobenzene-10		<1.0		<1.0	<1.0		335	<1.0		<1.0	<1.0

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Chlorodibromomethane (dibromochloromethane)-10		<1.0		<1.0	<1.0		25.1 (Total TTHM)	<1.25		<1.0	<1.0
Chloroethane-50		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
2-Chloroethylvinyl Ether-10		<5.0*		<5.0*	<5.0*			<5.0*		<5.0*	<5.0*
Chloroform-10		0.9		1.2	1.4		234 (Total TTHM)	<1.0		<1.0	<1.0
Dichlorobromomethane (bromodichloromethane)-10		<1.0		<1.0	<1.0		34.2 (Total TTHM)	<1.0		<1.0	<1.0
1,1-Dichloroethane-10		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
1,2-Dichloroethane-10		<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
1,1-Dichloroethylene-10		<1.0		<1.0	<1.0		23.4	<1.0		<1.0	<1.0
1,2-Dichloropropane-10		<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
1,3-Dichloropropylene-10 (cis + trans 1,3-dichloropropylene)		<2.0		<2.0	<2.0		9.39	<2.0		<2.0	<2.0
Ethyl benzene-10		<1.0		<1.0	<1.0		2349	<1.0		<1.0	<1.0
Methyl Bromide (Bromomethane)-50		<5.0		<5.0	<5.0			<5.0		<4.0	<5.0
Methyl Chloride (Chloromethane)-50		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
Methylene Chloride-na		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
1,1,2,2-Tetrachloroethane-10		<1.0		<1.0	<1.0		5.50	<1.0		<1.0	<1.0

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Tetrachloroethylene (Tetrachloroethene)-10		<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
Toluene-10		1.5		1.1	1.7			<1.0		<1.0	<1.0
1,2-Trans-Dichloroethylene (1,2-Trans-Dichloroethene)-10		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
1,1,1-Trichloroethane-10		<1.0		<1.0	<1.0		671	<1.0		<1.0	<1.0
1,1,2-Trichloroethane-10		<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
Trichloroethylene (Trichloroethene) -10		<1.0		<1.0	<1.0		16.7	<1.0		<1.0	<1.0
Vinyl Chloride-na		<1.0		<1.0	<1.0		0.771	<1.0		<1.0	<1.0
2-Chlorophenol-10		<2.5		<2.5				<2.5		<2.5	
2,4-Dichlorophenol-10		<2.5		<2.5				<2.5		<2.5	
2,4-Dimethylphenol-10		<5		<5			1490	<5		<5	
4,6-Dinitro-o-Cresol-na		<5		<5				<5		<5	
2,4-Dinitrophenol-50		<5		<5				<5		<5	
2-Nitrophenol-20		<2.5		<2.5				<2.5		<2.5	
4-Nitrophenol-50		<5		<5				<5		<5	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
P-Chloro-m-Cresol (4-Chloro-3 methyl phenol)-na		<2.5		<2.5				<2.5		<2.5	
Pentachlorophenol-1		<5		<5			0.738	<5		<5	
Phenol-10		6.3		<5				<2.5		<2.5	
2,4,6-Trichlorophenol-10		<2.5		<2.5				<2.5		<2.5	
BASE/NEUTRAL COMPOUNDS											
Acenaphthene-10		<2.5		<2.5*				<2.5		<2.5*	
Acenaphthylene-10		<2.5		<2.5*				<2.5		<2.5*	
Anthracene-10		<2.5		<2.5*			3722	<2.5		<2.5	
Benzidine-50		<10		<10*			0.00503	<10		<10*	
Benzo(a)Anthracene-5		<2.5		<2.5*			0.0805	<2.5		<2.5*	
Benzo(a)Pyrene-5		<2.5		<2.5*			0.00839	<2.5		<2.5*	
3,4-Benzofluoranthene-10		<2.5		<2.5				<2.5		<2.5*	
Benzo(ghi)Perylene-20		<2.5		<2.5*				<2.5		<2.5*	
Benzo(k)Fluoranthene-5		<2.5		<2.5*				<2.5		<2.5*	
Bis(2-Chloroethoxy)Methane-10		<2.5		<2.5*				<2.5		<2.5*	
Bis(2-Chloroethyl)Ether-10		<2.5		<2.5*			2.01	<2.5		<2.5*	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Bis(2-Chloroisopropyl)Ether-10		<2.5		<2.5*				<2.5		<2.5*	
Bis(2-Ethylhexyl)Phthalate-6		<5		<5*			20.1	<5		<2.5*	
4-Bromophenyl Phenyl Ether-10		<2.5		<2.5*				<2.5		<2.5*	
Butylbenzyl Phthalate-10		<2.5		<2.5*				<2.5		<2.5*	
2-Chloronaphthalene-10		<2.5		<2.5*				<2.5		<2.5*	
4-Chlorophenyl Phenyl Ether-10		<2.5		<2.5*				<2.5		<2.5*	
Chrysene-5		<2.5		<2.5*			8.22	<2.5		<2.5*	
Dibenzo(a,h)Anthracene-5		<2.5		<2.5*				<2.5		<2.5*	
1,2-Dichlorobenzene-10		<1.0		<1.0	<1.0		2013	<1.0		<1.0*	<1.0
1,3-Dichlorobenzene-10		<1.0		<1.0	<1.0		1080	<1.0		<1.0*	<1.0
1,4-Dichlorobenzene-10		1.8		1.6	1.6		251	<1.0		<1.0*	<1.0
3,3'-Dichlorobenzidine-5		<5		<5*			2.65	<5		<5*	
Diethyl Phthalate-10		<2.5		<2.5*				<2.5		<2.5*	
Dimethyl Phthalate-10		<2.5		<2.5*				<2.5		<2.5*	
Di-n-Butyl Phthalate-10		<2.5		<2.5*			298	<2.5		<2.5*	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
2,4-Dinitrotoluene-10		<5		<2.55*				<5		<5*	
2,6-Dinitrotoluene-10		<5		<2.5*				<5		<5*	
Di-n-Octyl Phthalate-10		<2.5		<2.5*				<2.5		<2.5*	
1,2-Diphenyl Hydrazine-20		<2.5*		<2.5*				<2.5*		<2.5*	
Fluoranthene-10		<2.5		<2.5*				<2.5		<2.5*	
Fluorene-10		<2.5		<2.5*				<2.5		<2.5*	
Hexachlorobenzene-5		<2.5		<2.5*			0.00228	<2.5		<2.5*	
Hexachlorobutadiene-10		<2.5		<2.5*			0.704	<2.5		<2.5*	
Hexachlorocyclopentadiene-10		<10		<10*			35.9	<10		<10*	
Hexachloroethane-20		<2.5		<2.5*			6.17	<2.5		<2.5*	
Indeno(1,2,3-cd)pyrene-5		<2.5		<2.5*				<2.5		<2.5*	
Isophorone-10		<2.5		<2.5*				<2.5		<2.5*	
Naphthalene-10		<2.5		<2.5*				<2.5		<2.5*	
Nitrobenzene-10		<2.5		<2.5*			153	<2.5		<2.5*	
N-Nitrosodimethylamine-50		<2.5		<2.5*				<2.5		<2.5*	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
N-Nitrosodi-n-propylamine-20		<2.5		<2.5*				<2.5		<2.5*	
N-Nitrosodiphenylamine-20		<2.5		<2.5*				<2.5		<2.5*	
Phenanthrene-10		<2.5		<2.5*			25.2	<2.5		<2.5*	
Pyrene-10		<2.5		<2.5*				<2.5		<2.5*	
1,2,4-Trichlorobenzene-10		<2.5		<2.5*				<2.5		<2.5*	
Aldrin-0.01		<0.00968		<0.01			0.0000384	<0.00987		<0.01	
Alpha-hexachlorocyclohexane (BHC)-0.05		<0.00968		<0.01			0.0261	<0.00987		<0.01	
beta-BHC-0.05		<0.00968		<0.06*			0.503	<0.00987		<0.01*	
gamma-BHC (Lindane)-0.05		<0.00968		<0.01			0.202	<0.00987		<0.01	
delta-BHC-0.03		<0.00968		<0.01*				<0.00987		<0.01*	
Chlordane-0.15 [alpha (cis) + gamma (trans)]		<0.01936		<0.02			0.00839	<0.01974		<0.02	
4,4'-DDT-0.02		<0.00968		<0.01			0.00134	<0.00987		<0.01	
4,4'-DDE-0.10		<0.00968		<0.01			0.000436	<0.00987		<0.01	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
4,4'-DDD-0.10		<0.00968		<0.01			0.00671	<0.00987		<0.01	
Dieldrin-0.02		<0.00968		<0.01			0.0000671	<0.00987		<0.01	
alpha-Endosulfan-0.01		<0.00968		<0.01			0.141	<0.00987		<0.01	
beta-Endosulfan-0.02		<0.00968		<0.01			0.141	<0.00987		<0.01	
Endosulfan Sulfate-0.10		<0.00968		<0.01			0.141	<0.00987		<0.01	
Endrin-0.02		<0.00968		<0.01			0.00505	<0.00987		<0.01	
Endrin Aldehyde-0.10		<0.00968		<0.01				<0.00987		<0.01	
Heptachlor-0.01		<0.00968		<0.01			0.000268	<0.00987		<0.01	
Heptachlor Epoxide-0.01		0.213		<0.01			0.000973	<0.00987		<0.01	
Polychlorinated biphenols (PCBs) - The sum of PCB concentrations not to exceed daily average value-0.20							0.00214 total				
PCB-1242-0.20		<0.194		<0.2			See PCBs	<0.197		<0.2	
PCB-1254-0.20		<0.194*		<0.2			See PCBs	<0.197		<0.2	
PCB-1221-0.20		<0.194		<0.2			See PCBs	<0.197		<0.2	
PCB-1232.20		<0.194		<0.2			See PCBs	<0.197		<0.2	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
PCB-1248.20		<0.194		<0.2			See PCBs	<0.197		<0.2	
PCB-1260-0.20		<0.194		<0.2*			See PCBs	<0.197*		<0.2*	
PCB-1016-0.20		<0.194*		<0.2			See PCBs	<0.197*		<0.2	
Toxaphene-0.30		<0.00968		<0.2030			0.000505	<0.00987		<0.1920	
Aluminum-2.5		428	262	128	127		834	18.3*	16.2*	16.9*	19.8*
Barium-3		49.9	48.7	48.4	44.7		1000	28.1	28.7	35.4	28.8
Bis(chloromethyl) ether [7]											
Carbaryl-5		<4*		<4.1*			1.68	<4.0		<4.0*	
Chlorpyrifos-0.05		<0.0484		<0.0507			0.0699	<0.0494		<0.0481	
Cresols		16.0		<7.5			3494	<7.5		<7.5	
2,4-D-10		<0.492		<.5*				<0.489		<0.49*	
Danitol [8]											
Demeton-0.2		<0.0484		<0.0507			234	<0.0494		<0.0481	
Diazinon-0.1		<0.0484		<0.0507			0.143	<0.0494		<0.0481	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Dicofol-1		<0.0968*		<0.10*			1.00	<0.098*7		<0.10*	
Dioxin/Furans [9]-na		-		--				--		--	
Diuron-0.09		<0.08		<0.08*			176	<0.08		<0.08*	
Fluoride-500		<1000		<1000			13425	<1000		<1000	
Guthion-0.1		<0.0484		<0.0507			0.0252	<0.0494		<0.0481	
Hexachlorophene-10		<10.0*		<10.0*			6.88	<10.0*		<10*	
Malathion-0.1		<0.0484		<0.0507			0.0252	<0.0494		<0.0481	
Manganese-0.5		128	127	114	94.7		1.00	101	150	14	14.6
Methoxychlor-2		<0.00968		<0.01			0.0758	<0.00987		<0.00962	
Methyl Ethyl Ketone-50		<25*		<25*	<25*		46536	<25		<25*	<25*
Mirex-0.02		<0.0145		<0.015			0.00252	<0.0148		<0.014	
Molybdenum-1.0		13	13	13	10	8.67		9.2	10	10	9.3
Nitrate-Nitrogen-100		<1000		<1000			33564	6120		11200	
N-Nitrosodiethylamine-20		<2.5		<2.5			0.0124	<2.5		<2.5	
N-Nitro-di-n-Butylamine-20		<2.5		<2.5			0.399	<2.5		<2.5	
Nonylphenol-333		<5		<5			16.6	<5		<5	

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Parathion-0.10 (Ethyl Parathion)		<0.0484		<0.0507			0.0328	<0.0494		<0.0481	
Pentachlorobenzene-20		<2.5		<2.5			1.16	<2.5		<2.5	
Pyridine-20		<2.5		<2.5			77.1	<2.5		<2.5	
Strontium		763*	827*	794*	779*			774*	832*	813*	801*
Styrene-na		<5.0		<5.0	<5.0			<5.0		<5.0	<5.0
1,2-Dibromoethane (ethylene DB)-na		<2.0		<2.0	<2.0		0.570	<1.75		<2.0	<2.0
1,2,4,5-Tetrachlorobenzene-20		<2.5		<2.5			0.771	<2.5		<2.5	
2,4,5-TP (Silvex)-2		<0.295		<0.30			167	<0.293		<0.29	
Tributyltin [9]		--		--				--		--	
2,4,5-Trichlorophenol-50		<2.5		<2.5			114	<2.5		<2.5	
TTHM (Total Trihalomethanes)-10 =Bromoform+Chloroform+Chlorodibromoethane+dichlorobromomethane		2.4		2.7	2.9		268	2.1		2	2
Vanadium-5		1.4	1.3	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0
Vinyl Acetate-na		<10		<10	<10			<10		<10	<10

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Xylene-10=m,p-Xylene+o - Xylene		<3.0	<3.0	<3.0	<3.0			<3.0	<3.0	<3.0	<3.0
Carbon disulfide		20.1	5.2	<4.0	<5.0			<5.0	<5.0	<3.0	<5.0
Bromide		<1000		<1000				<1000		<1000	
O-phosphate		4340		3060				1150		3380	
Nitrite-N		<1000		<1000				<1000		<1000	
Aluminum, Dissolved		37*	25	28*	22			12.6*	14	15*	7.3*
Arsenic, Dissolved		5.8	5.4	5.1	4.7			5.1	5.2	5.9	4.9
Barium, Dissolved		32	32	39	36*			28.8*	28	36	29
Cadmium, Dissolved		<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5
Silver, Dissolved		<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5
Chromium, Dissolved		1.2	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0
Copper, Dissolved		7.9	7.7	4.7	7			1.7	2.3	3.4	4.9*

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 2/13/23	Date 3/20/23	Date 08/07/23	Date 10/16/23			Date 2/14/23	Date 3/21/23	Date 8/8/23	Date 10/17/23
Zinc, Dissolved		15	22	9.1	12			16.9	25*	23	28*
Lead, Dissolved		<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<50	<0.5
Nickel, Dissolved		1.6	1.7	2	1.9			1.8*	1.2	1.7	1.7*
Cis-1,2-Dichloroethene		<1.0		<1.0	<1.0			<1.0		<1.0	<1.0
Methyl Parathion		<0.0484		<0.0507				<0.0494		<0.0481	
2-Methylphenol (o-Cresol)		<5		<5	<100			<5		<5	<10
3+4 Methylphenol (m,p-Cresol)		16.0	<100.0	<2.5				<2.5	<20.0	<2.5	

Footnotes:

* Data qualifiers included in laboratory report.

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 (Hazardous Metal Rule), TexTox values, or any applicable TPDES permit limit in Effluent Limitations and Monitoring Requirements Section. 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 Commission. 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.

Appendix B, Attachment 7

Summary of WET Tests

Section 3 of worksheet 5.0 pg. 57

SUMMARY OF WET TESTS

Test No.	Test Date	Test Species	NOEC Survival (%)	NOEC Sublethal (%)
1	2/11/2020	*Ceriodaphhnia dubia 7 Day*	88	
2	2/11/2020	*Daphnia pulex 24 Hour*	100	
3	2/11/2020	*Pimephales promelas 24 Hour*	100	
4	2/11/2020	*Pimephales promelas 7 Day*	88	
5	5/12/2020	*Ceriodaphhnia dubia 7 Day*	88	
6	5/12/2020	*Pimephales promelas 7 Day*	88	
7	8/11/2020	*Daphnia pulex 24 Hour*	100	
8	8/11/2020	*Pimephales promelas 24 Hour*	100	
9	8/11/2020	*Ceriodaphhnia dubia 7 Day*	88	
10	8/11/2020	*Pimephales promelas 7 Day*	88	
11	11/19/2020	*Ceriodaphhnia dubia 7 Day*	88	
12	11/19/2020	*Pimephales promelas 7 Day*	88	
13	2/9/2021	*Daphnia pulex 24 Hour*	100	
14	2/9/2021	*Pimephales promelas 24 Hour*	100	
15	2/9/2021	*Ceriodaphhnia dubia 7 Day*	60	
16	2/9/2021	*Pimephales promelas 7 Day*	60	
17	5/11/2021	*Ceriodaphhnia dubia 7 Day*	60	
18	5/11/2021	*Pimephales promelas 7 Day*	60	
19	3/8/2022	*Daphnia pulex 24 Hour*	100	
20	3/8/2022	*Pimephales promelas 24 Hour*	100	
21	3/8/2022	*Ceriodaphhnia dubia 7 Day*	60	
22	3/8/2022	*Pimephales promelas 7 Day*	60	
23	5/24/2022	*Ceriodaphhnia dubia 7 Day*	60	
24	5/24/2022	*Pimephales promelas 7 Day*	60	
25	8/16/2022	*Daphnia pulex 24 Hour*	100	
26	8/16/2022	*Pimephales promelas 24 Hour*	100	
27	8/16/2022	*Ceriodaphhnia dubia 7 Day*	60	
28	8/16/2022	*Pimephales promelas 7 Day*	60	
29	11/15/2022	*Ceriodaphhnia dubia 7 Day*	60	
30	11/15/2022	*Pimephales promelas 7 Day*	60	
31	1/24/2023	*Daphnia pulex 24 Hour*	100	
32	1/24/2023	*Pimephales promelas 24 Hour*	100	
33	1/24/2023	*Ceriodaphhnia dubia 7 Day*	60	
34	1/24/2023	*Pimephales promelas 7 Day*	60	
35	4/27/2023	*Ceriodaphhnia dubia 7 Day*	60	
36	4/27/2023	*Pimephales promelas 7 Day*	60	
37	8/15/2023	*Ceriodaphhnia dubia 7 Day*	60	
38	8/15/2023	*Pimephales promelas 7 Day*	60	
39	8/15/2023	*Daphnia pulex 24 Hour*	100	

Test No.	Test Date	Test Species	NOEC Survival (%)	NOEC Sublethal (%)
40	8/15/2023	*Pimephales promelas 24 Hour*	100	
41	8/29/2023	*Ceriodaphhnia dubia 7 Day*	60	
42	8/29/2023	*Pimephales promelas 7 Day*	60	
43	11/14/2023	*Ceriodaphhnia dubia 7 Day*	60	
44	11/14/2023	*Pimephales promelas 7 Day*	60	
45	2/27/2024	*Daphnia pulex 24 Hour*	100	
46	2/27/2024	*Pimephales promelas 24 Hour*	100	
47	2/27/2024	*Ceriodaphhnia dubia 7 Day*	60	
48	2/27/2024	*Pimephales promelas 7 Day*	60	
49	7/16/2024	*Daphnia pulex 24 Hour*	100	
50	7/16/2024	*Pimephales promelas 24 Hour*	100	
51	7/16/2024	*Ceriodaphhnia dubia 7 Day*	60	
52	7/16/2024	*Pimephales promelas 7 Day*	60	
53	8/6/2024	*Ceriodaphhnia dubia 7 Day*	60	

Appendix B, Attachment 8

Parameters Above MAL

Section 2.C of worksheet 6.0 pg. 60

Appendix B, Attachment 9 - Parameters Above MAL in Annual Effluent Monitoring Scan
John T. Hickerson WWTP - WQ0010408009

Pollutant	Concentration	MAL (µg/L)	Date
2021			
Arsenic	5.3	0.5	1/11 - 1/12/21
Arsenic	4.3	0.5	4/19 - 4/20/21
Arsenic	2.9	0.5	7/26 - 7/27/21
Copper, Total	2.6	2	1/11 - 1/12/21
Copper, Total	2.2	2	7/26 - 7/27/21
Zinc	42.3	5	1/11 - 1/12/21
Zinc	37.3	5	4/19 - 4/20/21
Zinc	34.3	5	7/26 - 7/27/21
Phenols, Total	22.3	10	1/11 - 1/12/21
Phenols, Total	126.7	10	7/26 - 7/27/21
Chlordane	<0.21	0.2	1/11 - 1/12/21
Aluminum	14.5	2.5	1/11 - 1/12/21
Aluminum	<50	2.5	4/19 - 4/20/21
Aluminum	<20	2.5	7/26 - 7/27/21
Barium	15.8	3	1/11 - 1/12/21
Barium	23.4	3	4/19 - 4/20/21
Barium	26.5	3	7/26 - 7/27/21
Cresols	<21.1	10	4/19 - 4/20/21
Fluoride	650	500	1/11 - 1/12/21
Fluoride	<1000	500	7/26 - 7/27/21
Manganese	8.9	0.5	1/11 - 1/12/21
Manganese	21.9	0.5	4/19 - 4/20/21
Manganese	9.9	0.5	7/26 - 7/27/21
Mirex	<0.21	0.02	1/11 - 1/12/21
Nitrate-Nitrogen	8980	100	1/11 - 1/12/21
Nitrate-Nitrogen	8280	100	7/26 - 7/27/21
2022			
Arsenic	5	0.5	2/7 - 2/8/22
Arsenic	6.1	0.5	5/2 - 5/3/22
Arsenic	4.7	0.5	8/8 - 8/9/22
Arsenic	5	0.5	10/17 - 10/18/22
Copper	3.8	2	2/7 - 2/8/22
Copper	3.2	2	5/2 - 5/3/22
Copper	4.9	2	8/8 - 8/9/22
Copper	2.4	2	10/17 - 10/18/22
Zinc	46.3	5	2/7 - 2/8/22
Zinc	37.5	5	5/2 - 5/3/22
Zinc	36.6	5	8/8 - 8/9/22
Zinc	27.1	5	10/17 - 10/18/22

Pollutant	Concentration	MAL (µg/L)	Date
Phenols, Total	17.25	10	5/2 - 5/3/22
Aluminum	16	2.5	2/7 - 2/8/22
Aluminum	28.3	2.5	5/2 - 5/3/22
Aluminun	<5	2.5	8/8 - 8/9/22
Aluminum	16.7	2.5	10/17 - 10/18/22
Barium	20.6	3	2/7 - 2/8/22
Barium	26.8	3	5/2 - 5/3/22
Barium	23.4	3	8/8 - 8/9/22
Barium	22.8	3	10/17 - 10/18/22
Cresols	<19	10	5/2 - 5/3/22
Cresols	<20	10	10/17 - 10/18/22
Fluoride	<1000	500	2/7 - 2/8/22
Fluoride	<1000	500	8/8 - 8/9/22
Hexachlorophene	<11	10	2/7 - 2/8/22
Hexachlorophene	<11	10	8/8 - 8/9/22
Manganese	6.7	0.5	2/7 - 2/8/22
Manganese	6.5	0.5	5/2 - 5/3/22
Manganese	37.2	0.5	8/8 - 8/9/22
Manganese	76.3	0.5	10/17 - 10/18/22
Nitrate-Nitrogen	10300	100	2/7 - 2/8/22
Nitrate-Nitrogen	10400	100	8/8 - 8/9/22
2023			
Arsenic	5	0.5	2/14/2023
Arsenic	5.3	0.5	3/21/2023
Arsenic	5.9	0.5	8/8/2023
Arsenic	4.9	0.5	10/17/2023
Cadmium	<5.0	1	8/82023
Chromium (Hex)	4.3	3	3/21/2023
Copper	2.4	2	2/14/2023
Copper	3	2	3/21/2023
Copper	3.7	2	8/8/2023
Copper	4.5	2	10/17/2023
Thalium	<3.0	0.5	3/21/2023
Cyanide	13	10	8/8/2023
Cyanide	20	10	10/17/2023
Carbon Tetra Chloride	<3.0	2	8/8/2023
Aluminum	18.3	2.5	2/14/2023
Aluminum	16.2	2.5	3/21/2023
Aluminum	16.9	2.5	8/8/2023
Aluminum	19.8	2.5	10/17/2023
Barium	28.1	3	2/14/2023
Barium	28.7	3	3/21/2023
Barium	35.4	3	8/8/2023

Pollutant	Concentration	MAL (µg/L)	Date
Barium	28.8	3	10/17/2023
Fluoride	<1000	500	2/14/2023
Fluoride	<1000	500	8/8/2023
Nitrate-Nitrogen	6120	100	2/14/2023
Nitrate-Nitrogen	11200	100	8/8/2023
Barium	28.8	3	2/14/2023
Barium	28	3	3/21/2023
Barium	36	3	8/8/2023
Barium	29	3	10/17/2023

10056 Domestic Wastewater Permit Sewage Sludge Technical Report

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

SECTION 1. TREATMENT PROCESSING INFORMATION

A. Attach the engineering report and/or plans and specifications for the proposed facility which must include the following:

- Description of the type of process facility
- Process flow diagram
- Design calculations, features, and functional arrangements
- Site controls
- Groundwater protection
- Odor, dust, and bio-aerosol management
- Ultimate product

Attachment Number: Appendix C, Attachment 1,2,3

B. Is the facility located or proposed to be located above the 100-year frequency flood plain? Yes ☒ No ☐

If No, provide a separate site map indicating the location of the sludge units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

N/A

SECTION 2. SOURCES OF SLUDGE

A. Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the quantity for each source.

Facility Name	**Permit Number**	**Annual Quantity**
John T. Hickerson WWTP	WQ0010408009	6,022 yd^3
Haskell R Street WWTP	WQ0010408004	13,633 yd^3

Facility Name	Permit Number	Annual Quantity
R Bustamante WWTP	WQ10408010	20,192 yd^3
Fred Hervey WRP	WQ10408007	6,940 yd^3

B. For each source of sludge, complete Table 1 located at the end of this form.

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

A. For each source of sludge, complete Tables 2 and 3 located at the end of this form.

B. Indicate by a checkmark that all of the following are being followed for Class B land application.

☒ Food crop harvesting restrictions

☒ Animal grazing restrictions

☒ Public access restrictions

SECTION 4. WELL INFORMATION

In the table below, provide information about each well located on-site and within 500 feet of the processing, application, and/or disposal area. Water well information is available from the Texas Water Development Board, 512-936-0837. Oil and gas well information is available from the Texas Railroad Commission, 512-463-6851.

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
EPS (Water)	Producing	Cased	No action required
LF1 (Monitoring)	Non-Producing	Cased	No action required
E5 (Water)	Producing	Cased	No action required
LF2A (Monitoring)	Producing	Cased	No action required
LF3 (Monitoring)	Producing	Cased	No action required
LF4A (Monitoring)	Producing	Cased	No action required
J3 (Water)	Non-Producing	Plugged & Capped	No action required
MW2 (Monitoring)	Producing	Cased	No action required

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.

** The following protective measures are required prior to initial sludge/septage application:

- If the well is producing and cased, no action is needed.
- If the well is producing and not cased, the well must be cased or describe other protective measures.
- If the well is non-producing and cased, the well must be plugged or capped.
- If the well is non-producing and not cased, the well must be plugged.

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☐ Technical Report 2.0, Sewage Sludge Composting

☐ Technical Report 3.0, Marketing and Distribution

☒ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0010408009

Applicant: El Paso Utilities – Public Service Board

I understand that I am responsible for operating the site described in this permit application in accordance with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the Texas Commission on Environmental Quality.

I certify, under penalty of law, that all 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, imprisonment for violations, and revocation of this permit.

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: John Balliew

Title: President/CEO

Signature (use blue ink): _____ Date: 1/22/25

SUBSCRIBED AND SWORN to before me by the said JOHN E. BALLIEW on this 22ND day of JANUARY, 20 25

My commission expires on the 29th day of APRIL, 20 28

_____

(Seal) Notary Public

EL PASO

County, Texas

LUCY CALDERON
MY COMMISSION EXPIRES
04/29/28
NOTARY ID: 2196929

LANDOWNER SIGNATURE PAGE

Required if the landowner is not the applicant or co-applicant. Each landowner must submit an original, separate signature page.

Permit Number: WQ0010408-009

Applicant: John Balliew

I certify, as the owner of the land described in this permit application, that I have all rights and covenants to authorize the applicant to use this site for the land application of wastewater sludge_____ (*identify the type(s) of sludge*). I understand that 30 TAC Chapter 312 requires me to make a reasonable effort to see that the applicant complies with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the TCEQ. I also certify, under penalty of law, that all information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of the permit.

Signatory Name: John Balliew

Title: President/CEO

Signature (use blue ink): _____ Date: 1/22/25

SUBSCRIBED AND SWORN to before me by the said JOHN E. BALLIEW on this 22ND day of January, 20 25

My commission expires on the 29th day of April, 20 28

(Seal)

Notary Public

El Paso

County, Texas

LUCY CALDERON
MY COMMISSION EXPIRES
04/29/28
NOTARY ID: 2196929

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 4.0

SEWAGE SLUDGE SURFACE DISPOSAL

SECTION 1. LOCATION INFORMATION

A. Attach the following maps. See instructions for information that must be displayed on each map.

- Original General Highway (County) map;
- USDA Natural Resources Conservation Service Soil Map;
- Federal Emergency Management Agency Map; and
- Site Map.

Attachment Numbers: Appendix C, Attachments 5,6,7,8

B. Indicate by checkmarks if the disposal unit contains any of the following:

☒ Overlaps a designated 100-year frequency floodplain

☐ Soils with flooding classification

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ Overlaps an unstable area

☐ None of these

If the sludge disposal unit contains any of the above features, provide a detailed description of the type and size of protective measures.

Site is protected from flooding by an earthen perimeter berm that varies from 15 feet to 20 feet high.

SECTION 2. DISPOSAL INFORMATION

A. What is the volume and frequency of sludge disposal? 65,951 CY/yr

B. What is the total dry tons placed on the disposal unit per 365-day period? 16,157

C. What is the total dry tons placed on the disposal unit over the life of the unit? N/A

D. Attach a current TCLP test result from each sludge source.
Attachment Number: Appendix C, Attachment 9.3

SECTION 3. FACILITY INFORMATION

A. Does the disposal unit have a liner with a maximum hydraulic conductivity of $1X10^{-7}$ cm/sec? Yes ☐ No ☒

If yes, describe the liner.

Click here to enter text.

B. Does the disposal unit have a leachate collection system?
Yes ☐ No ☒

If yes, describe the leachate collection system and the method used for leachate treatment and disposal.

Click here to enter text.

C. If you answered No to A. and B., is the boundary of the disposal unit less than 150 meters from the nearest property boundary?
Yes ☒ No ☐

If you answered No to C., what is the actual distance to the nearest property boundary in meters? Click here to enter text.

Click here to enter text.

Yes ☐ No ☐

D. Do the design calculations for the disposal unit show that stormwater will not run-off of the disposal unit during a 25-year, 24-hour rainfall event?

Yes ☐ No ☒

E. If sludge dewatering is used, describe the method of sludge dewatering and the average percent solids disposed of in the disposal unit.

Sludge from all EPWU facilities is co-disposed at the McCombs Monofill on an emergency basis only. Dewatering processes vary by plant and include one or more of the following: belt filter presses, centrifuges, and/or drying beds. The combined average percent solids in dewatered sludge is approximately 35%.

F. Are crops grown or animals allowed to graze at the disposal site?

Yes ☐ No ☒

If yes, provide a detailed description of management practices that protect human health from accumulation of metals in the sewage sludge.

Click here to enter text.

SECTION 4. SITE DEVELOPMENT PLAN

A. Provide a detailed description of the methods used to deposit sludge in the disposal unit.

See Appendix C, Attachment 10 and 10.1

B. Indicate by a checkmark that the following information is provided with this application.

☒ Plan view and cross-sectional view of the disposal unit
☒ Source and physical properties of the soil and/or other media for sludge bulking

☒ Locations of stockpiles of media and the area for sludge loading and unloading
☒ Operation procedures detailing mixing, ratio of mixture, handling of mixture, placement of the mixture, and daily cover
☒ Copy of the closure plan and post-closure maintenance requirements developed in accordance with 30 TAC §312.62(c) and (d)
☒ Copy of deed record for the site
☒ Description of the method of controlling infiltration of groundwater and surface water from entering the site
☒ Financial assurances of proper operation and final closure of the disposal unit and storage in accordance with 30 TAC §312.62(g)
☒ Description of methane gas monitoring if cover is placed on the disposal unit
☒ Description of method to restrict public access to the site.

SECTION 5. GROUNDWATER MONITORING

A. Is groundwater monitoring currently conducted at this disposal unit, or is groundwater monitoring data otherwise available?
Yes ☒ No ☐
If yes, attach a copy of available groundwater monitoring data.

Attachment Number: Appendix C, Attachment 21

B. Has a groundwater monitoring program been prepared for this disposal unit? Yes ☒ No ☐
If yes, attach a copy of the groundwater monitoring program.

Attachment Number: Appendix C, Attachment 22

C. Provide a certification from a qualified groundwater scientist that the aquifer below the disposal unit will not be contaminated.

Attachment Number: Appendix C, Attachment 22

D. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater.

Attachment Number: Appendix C, Attachment 23

Appendix A
Pollutant Concentrations in Sewage Sludge

Complete this table **for each source** of sludge.

Facility Name: Click here to enter text.
TCEQ Authorization Number: Click here to enter text.

POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	See Appendix C, Attachment 4 and 4.B			
Cadmium (Cd)	85				
Chromium (Cr)	3000				
Copper (Cu)	4300				
Lead (Pb)	840				
Mercury (Hg)	57				
Molybdenum (Mo)	75				
Nickel (Ni)	420				
Selenium (Se)	100				
Zinc (Zn)	7500				
PCB (ppm)	50.0 ppm				
Fecal Coliform (MPN)					

Appendix C, Attachment 1

Treatment Process Engineering Report

Section 1 of worksheet 1.0 pg. 1

John T. Hickerson Wastewater Treatment Plant Permit No. WQ0010408009

PART 1 -Description of the Type of Sludge Processing

The solids handling facilities at John T. Hickerson (Northwest) WRF consists of air flotation thickening (DAFT), thickened sludge storage tanks, belt filters presses (BFPs) and lime stabilization. The waste activated sludge (WAS) from the secondary treatment is combined with the tertiary filter backwash and scum from the secondary clarifiers. The combined sludge is then sent to the DAFTs for thickening, then to thickened sludge storage tanks for temporary holding, and finally to the BFPs for dewatering. After the BFPs, the cake is conveyed to a lime stabilization process, where quicklime is added to meet the requirement of 30 TAC 312.13 for pathogen and vector attraction reduction. Finally, the sludge is transported to a storage hopper for disposal. The floating sludge from the DAFT and the filtrate of the BFP are returned to the headworks for further treatment.

PART 2 - Process Flow Diagram

See Appendix C, Attachments 2 and 3

PART 3 - Design Calculations

a) Dissolved Air Flotation Thickeners (DAFT)

Quantity	2
Type	Circular
Diameter (ft)	36
Depth (ft)	14
Capacity (ft^3)	14250
Surface Area (ft^2)	1000
Chemical Treatment	Anionic Polymer
Feed Rate (gpm)	100
Detention Time (hr)	18
Air Flow ($lb\ air\ /\ DS$)	0.03
Loading Rate ($lb/ft^3 - hr$)	1.39
TDH (ft)	30
Motor (hp)	3

Design Features:

The Daft unit control can be operated at the unit control panel itself, remotely through the plant operational SCADA system or when any of the Waste Activated Sludge (WAS) pumps are running.

If the DAFT grinder, pumps or collector rakes experience FAULT or FAILURE alarms, the WAS pumps, sand filter backwash and scum pumps that feed the DAFT units are automatically disabled.

HIGH LEVEL alarms on the DAFT Thickened Sludge Storage Tanks disable the DAFT float and bottom sludge pump controls which fed the storage tanks. The polymer high/low pressure switch stops polymer pumps when either condition occurs.

b) Sludge Dewatering (Belt Filter Presses)

Belt Filter Press	
Quantity	3
Type	Continuous Belt
Belt width (m)	2.2
Capacity ($lb\ /hr\ DS$)	1,500
Sludge Flow (gpm, min)	50
Sludge Flow (gpm, max)	100
Chemical Treatment	Anionic Polymer
Sludge Cake (min %)	20
Feed Conc. (% DS)	3-5
Operation (hrs/wk)	90
Solids Capture (min %)	95
Wash Water Rate (gpm)	100
Motor (hp)	3
Polymer Dose ($lb\ /ton\ DS$)	2-10

Belt Filter Press Feed Pumps	
Type	Variable Speed Prog. Cavity
TDH (psi)	75
Feed Rate (gpm)	50-100
Motor (hp)	15

Belt Press Polymer Feed Pumps	
Type	Diaphragm Metering
TDH (psi)	40
Feed Rate (gpm)	5-10
Motor (hp)	15

Sludge Belt Conveyer	
Type	Corrugated Belt
Width (in)	20
Feed Rate (tons/hr)	6
Motor (hp)	2

Design Features:

EMERGENCY STOP/RESET buttons are located on each of the Belt Filter Presses (BFP) control panels which stop all BFP components including sludge feed pumps, polymer feed pumps, BFP operating motors, and the belt conveyer.

The BFP feed pump controls have a discharge pressure switch /RESET button which disables the feed pumps if pressure is above the high set point or less than the low pressure set point. After pressure set points have been corrected, the reset button must be pushed to restart the feed pump. The feed pumps will also be deactivated if the DAFT Thickened Sludge Storage Tanks sensors detect a sludge level lower than the preset set point in the tanks.

Polymer feed pumps are also automatically shut down when the BFPs are shut down during normal operation or emergency shutdown. The Polymer feed pumps also have a discharge pressure switch RESET button which disables the feed pump if pressure is above the high set point or less than the low pressure set point.

The Sludge Belt Conveyer operation is interlocked with any failure of the lime stabilization system and will shut down all BFP operations if the conveyer stops for any reason. The BFPs are also equipped with a safety cord which runs around each BFP. When this safety cord is pulled, all BFP operations will shut down.

c) Lime Stabilization System

Sludge Screw Conveyer	
Quantity	2
Type	Helical Screw
Diameter (in)	14
Feed Rate (rpm)	50
Solids Loading (lb./hr.)	12500
Motor (hp)	10

Sludge- Lime Mixer	
Quantity	2
Type	Twin Auger
Diameter (in)	14
Feed Rate (rpm)	7-35
Solids Loading (lb./hr.)	13500
Motor (hp)	5

Stabilized Sludge Conveyor	
Quantity	2
Type	Helical Screw
Diameter (in)	24
Feed Rate (rpm)	25
Solids Loading (lb./hr.)	13500
Motor (hp)	7.5

Lime Storage Hopper	
Quantity	2
Type	Live Bottom
Volume (yd^3)	1100
Height (ft)	8

Sludge Storage Hopper	
Quantity	2
Type	Live Bottom
Volume (yd^3)	30
Height (ft)	10.5

Lime Feeder	
Quantity	2
Type	Volumetric Screw
Feed Rate (lb/hr)	1000
Screw Speed (rpm)	0-50
Motor (hp)	1
Chemical Treatment	Quicklime

Design Features:

The lime stabilization system control panel has an EMERGENCY STOP button which immediately stops all lime stabilization system equipment. This button also stops all BFPs and associated BFP equipment. The lime system also consists of several interlocks that shut down equipment of all other associated with the lime system equipment and shutdown of the BFP operations upon failure of one of its components, i.e. failure of the stabilized sludge conveyer will automatically shut down the sludge screw conveyer, sludge-lime mixer, lime feeder and initiate BFP emergency shutdown. Also, the sludge storage hoppers have a high-level sensor which initiates shutdown of each of the Lime System components and the BFP operations.

Site Controls

The treated sludge is stored in the sludge hoppers until removed by the trucking contractors and transported to the privately owned sludge only Monofill. Surface water run-on or runoff does not occur. Any sludge from other treatment units is not stored on site and does not require protection from a 25-year, 24-hour rainfall event. The only sludge stored as previously mentioned is in the sludge storage hoppers until it's removed for disposal at the Monofill.

Groundwater Protection

As stated above, treated, processed sludge is stored in the sludge storage hoppers until removed by trucking contractors and shipped to the privately owned sludge only Monofill. No storage of bulk processed or unprocessed sludge occurs at the plant, and no storage occurs on the plant surface areas. Any spills that may occur during transfer of sludge from the sludge storage hoppers to the sludge hauling trucks is contained in the loading zone on concrete and asphalt surfaces. These contained spills are then washed down to the plant drain system which returns the sludge to the headworks of the plant for further treatment.

Odor, dust, and bio-aerosol management plan

The Northwest Wastewater Treatment Plant's odor and aerosol control system is vital for avoiding downwind complaints. For this, hydrogen sulfide levels beyond the plant must stay between 10-15 parts per billion. To meet this target, air from the main odor and aerosol generating areas - the dissolved air flotation thickeners, thickened sludge tanks, belt filter presses, lime stabilization system, and raw influent headworks - is collected and exhausted from the buildings into the control system. Two central Odor Reduction Towers efficiently draw foul air from the Headworks, Sludge Dewatering, and Sludge Thickening buildings via ductwork and fans. Between them lies the Chemical Building, housing pumps, chemical feed panels, metering pumps, and chemical tanks. This odor control system removes 99% of hydrogen sulfide, minimizing odorous conditions and aerosol formation. Dust is also minimized since the undried biosolids are transported directly to the sludge-only landfill.

The odor and aerosol control system uses two counter-current packed bed scrubbers called odor/aerosol reduction towers (ORTs). The ORTs are equipped with chemical solution feed pumps, recirculation pumps, and chemical storage tanks. Three exhaust fans pull foul air from the process areas into the ORTs. The fans also supply air to the ORTs. Inside the towers, odorous compounds are removed from the air stream via chemical reaction. Sodium hypochlorite and caustic soda are metered into the recirculating chemical solution, which is kept at preset concentrations. Hydrogen sulfide in the foul air dissolves into the water in the solution. The sodium hypochlorite converts the dissolved sulfide into dissolved sulfate, which remains in solution before eventually being removed from the system. The sodium hydroxide maintains a high pH to assist the sulfide to sulfate conversion, as shown in this chemical equation: [chemical equation].

$$7Na0Cl + H_20 + H_2S \rightarrow 7NaCl + S0_4 + 40H$$

The chemical solution is sprayed onto the top of the packing as foul air passes upward through it, promoting turbulent mixing between the two. The chemical solution flows down through the packing and is collected at the bottom of the oxidizing reactor tower (ORT), where recirculation pumps return it to the top. A small portion of the spent solution is continuously bled off to drains to prevent buildup of contaminants like sulfates and salts. Softened makeup water replaces the bled-off solution to reduce chemical reaction with the water and prevent scale in the ORT.

The chemical feed system consists of storage tanks, metering pumps, and controls. Concentrated chemicals are metered into the recirculating solution to maintain target levels, with pH and oxidation-reduction potential (ORP) continuously monitored at each recycle pump header. These readings automatically adjust the chemical metering rates to hold pH and ORP at preset levels. Adequate chemical supplies are maintained in the storage tanks to support the odor and aerosol control system operations.

Odor/Aerosol Control System

Odor/Aerosol Reduction Towers (ORTs)	
Quantity	2
Type	Counter Current
Feed Rate (scfm)	300000
Chemical Solution Recirculating Pumps	
Quantity	4
Type	Centrifugal
Motor (hp)	15
TDH (psi)	60
Feed Rate (gpm)	450
NaOCl Storage Tank	
Quantity	1
Type	Fiberglass
Coacity (gal)	6000
NaOH Storage Tank	
Quantity	1
Type	Steel
Capacity(gal)	2000
NaOCl Feed Pumps	
Quantity	2
Type	Metering Pump
TDH(psi)	125
Feed Rate (gpm)	70
Lime Feeder	
Quantity	2
Type	Metering Pump
TDH (psi)	60
Feed Rate (gpm)	9

The exhaust stack of each odor reduction tower (ORT) has a single-blade damper on the foul air ductwork to prevent backflow of the bypassed foul air stream into the ORT. The ductwork from the Headworks Building and the Sludge Dewatering and Sludge Thickening Buildings interconnects, allowing the foul air stream to pass through just one ORT. Although using only one ORT temporarily reduces treatment efficiency, this arrangement enables continuous foul air treatment when an ORT is out of service.

Foul Air Exhaust Fans

Headworks Exhaust Fan	
Quantity	1
Type	Centrifugal Fan
Pressure (in H_2O)	5.5
Feed Rate (scfm)	26150
Speed (rpm)	1000
Motor (hp)	50
Thickening Building Exhaust Fan	
Quantity	1
Type	Centrifugal Fan
Pressure (in H_2O)	4.5
Feed Rate (scfm)	7080
Speed (rpm)	1600
Motor (hp)	15
Dewatering Building Exhaust Fan	
Quantity	1
Type	Centrifugal Fan
Pressure (in H_2O)	6.0
Feed Rate (scfm)	26400
Speed (rpm)	1000
Motor (hp)	50

The wastewater treatment plant uses two odor reducing towers (ORTs) to treat foul-smelling exhaust air from the Headworks, Sludge Thickening Building, and Sludge Dewatering Building. Each 10-foot diameter, 28-foot-high fiberglass reinforced polyester tower can effectively treat up to 30,000 cubic feet per minute of air containing a maximum of 20 parts per million hydrogen sulfide. Efficiency decreases at higher air flow rates or hydrogen sulfide concentrations. Within each ORT, 10 feet of polypropylene packing composed of 3.5-inch diameter open plastic balls provides over 40 square feet of surface area per cubic foot of volume. An arrangement of open-orifice spray nozzles evenly sprays a chemical solution over the packing. As the air flows up through the packing, the hydrogen sulfide chemically reacts with the solution trickling down. The reacted solution collects in a sump at the bottom, which has an overflow, drain, and continuous blowdown to discharge a small amount of spent solution. Each ORT also has a 6-inch

thick polypropylene mesh mist eliminator to remove 90 percent of entrained water droplets larger than 10 microns from the exhaust air. Air pressure meters monitor inlet pressure, pressure differential through the packing, and differential across the mist eliminator.

Ultimate Product

The dewatered sludge is disposed of in the Cerro Alto Sludge-Only Monofill, TCEQ permit No. WQ0004636000 (Surface Disposal) and Registration No. 42036 (Composting) in Hudspeth County, Texas. An emergency-only site is also permitted at the McCombs Sludge-Only Monofill, TCEQ Permit No. WQ0010408004 (Surface Disposal), in El Paso County, Texas.

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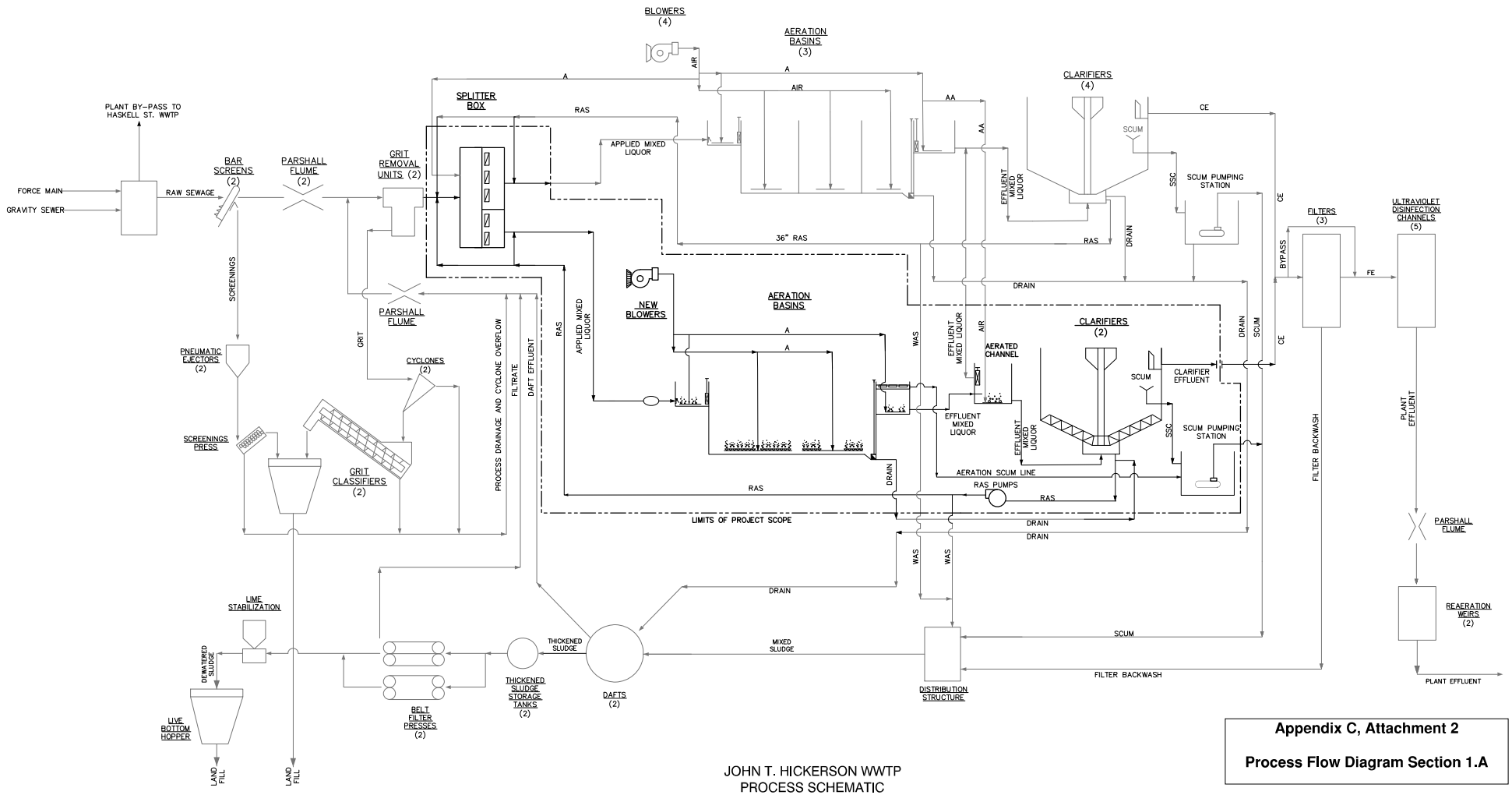
Appendix C, Attachment 2

Process Flow Diagram

Section 1 of worksheet 1.0 pg. 1



JOHN T. HICKERSON WWTP
PROCESS SCHEMATIC

Appendix C, Attachment 2

Process Flow Diagram Section 1.A

DATE	REVISIONS	BY

SCALE: LINE IS 2 INCHES AT FULL SCALE (IF NOT 2" – SCALE ACCORDINGLY)
HOR: _____ VER: _____
W.O. _____
DATE: _____
DESIGN BY: _____
DRAWN BY: _____
CHKD. BY: _____
APPD. BY: _____

H2 Terra
ENGINEERING. SURVEYING. SOLUTIONS.
TBPE FIRM NO. F-2103 TBPLS FIRM NO. 10060700
2020 E. MILLS AVENUE El Paso, TX 79901
(915) 533-1418 FAX: (915) 533-4972

el paso WATER

PLANT FLOW SCHEMATIC

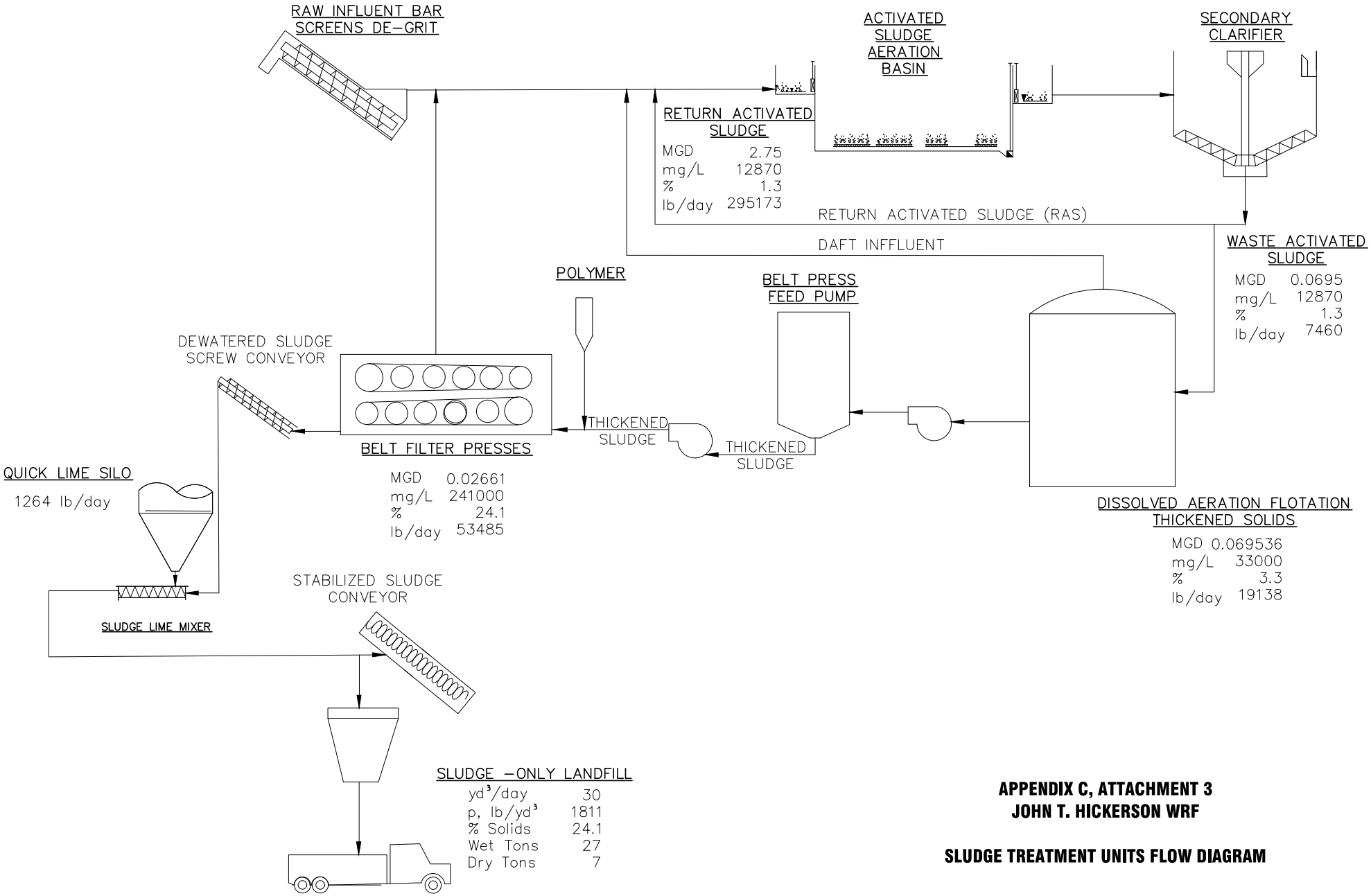
DRAWING NUMBER **G4**

SHEET No.

Appendix C, Attachment 3

Sludge Flow Diagram

Section 1 of worksheet 1.0 pg. 1



APPENDIX C, ATTACHMENT 3
JOHN T. HICKERSON WRF

SLUDGE TREATMENT UNITS FLOW DIAGRAM

Appendix C, Attachment 4

Pollutant Concentrations in Sewage Sludge

Appendix A table of report pg. 15

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPWU WWTP PERMIT SAMPLING
Project: JT 503 ANNUAL SLUDGE 2024 (51224)
Sampling Location:

El Paso Water
John T. Hickerson WWTP
701 Executive Center Blvd
El Paso, TX 79922
USA

Requested By:

Fred Murillo
El Paso Water
John T. Hickerson WWTP
701 Executive Center Blvd
El Paso, TX 79922
USA
fmurillo@EPWU.org
Ph: (915) 594-5792

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SM 4500 H and B										
pH	12.6	pH	1	1		01/03/2024 13:13	CGM	01/03/2024 13:13	CGM	
Temperature	21.4	ºC	1	1		01/03/2024 13:13	CGM	01/03/2024 13:13	CGM	
SM 4500 (COC) pH										
pH (COC)	12.2	pH	1	1		01/03/2024 05:50	SMP	01/03/2024 05:50	SMP	
Temperature (COC)	25.0	ºC	1	1		01/03/2024 05:50	SMP	01/03/2024 05:50	SMP	
SW 8260B Volatiles										
Acrolein	<400	ug/kg dry wt.	1	400		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Acrylonitrile	<400	ug/kg dry wt.	1	400		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Benzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Bromochloromethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Bromodichloromethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Bromoform	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Carbon tetrachloride	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Chlorobenzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Chloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
2-Chloroethylvinyl ether	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Chloroform	50.3	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Chloromethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Chlorodibromomethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,2-Dichlorobenzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,3-Dichlorobenzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,4-Dichlorobenzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,1-Dichloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,2-Dichloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,1-Dichloroethene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
trans-1,2-Dichloroethene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,2-Dichloropropane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
cis-1,3-Dichloropropene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
trans-1,3-Dichloropropene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Ethyl Benzene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Methylene Chloride	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,1,2,2-Tetrachloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Tetrachloroethylene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Toluene	183	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,1,1-Trichloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
1,1,2-Trichloroethane	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Trichloroethene	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
Vinyl Chloride	<19.8	ug/kg dry wt.	1	19.8		01/11/2024 18:23	pace	01/11/2024 18:23	pace	
EPA 6010, ICP Metals										
Aluminum, Total, ICP	1730	mg/kg dry wt.	1	23.0		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Antimony, Total, ICP	<3.10	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Arsenic, Total, ICP	4.60	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Barium, Total, ICP	64	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Beryllium, Total, ICP	<0.310	mg/kg dry wt.	1	0.310		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Boron, Total, ICP	44	mg/kg dry wt.	1	30.6		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Cadmium, Total, ICP	<1.50	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Calcium, Total, ICP	237000	mg/kg dry wt.	1	61.3		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Chromium, Total, ICP	6.20	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Cobalt, Total, ICP	<1.50	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Copper, Total, ICP	84.7	mg/kg dry wt.	1	6.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Iron, Total, ICP	2580	mg/kg dry wt.	1	15.3		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Lead, Total, ICP	<3.10	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Magnesium, Total, ICP	2150	mg/kg dry wt.	1	15.3		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Manganese, Total, ICP	281	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Molybdenum, Total, ICP	9.6	mg/kg dry wt.	1	6.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Nickel, Total, ICP	6.00	mg/kg dry wt.	1	1.50		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Phosphorus, Total, ICP	7510	mg/kg dry wt.	1	30.6		01/16/2024 09:08	pace	01/16/2024 09:08	pace	6
Potassium, Total, ICP	1590	mg/kg dry wt.	1	153		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Selenium, Total, ICP	<4.60	mg/kg dry wt.	1	4.60		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Silver, Total, ICP	<2.10	mg/kg dry wt.	1	2.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Sodium, Total, ICP	1730	mg/kg dry wt.	1	153		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Strontium, Total, ICP	331	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Thallium, Total, ICP	<6.10	mg/kg dry wt.	1	6.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Tin, Total, ICP	<15.3	mg/kg dry wt.	1	15.3		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Titanium,Total, ICP	82.7	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Vanadium, Total, ICP	7.80	mg/kg dry wt.	1	3.10		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
Zinc, Total, ICP	241	mg/kg dry wt.	1	30.6		01/16/2024 09:08	pace	01/16/2024 09:08	pace	
SM 4500 24 Hour pH										
pH 24 Hour	12.6	pH	1	1		01/04/2024 12:09	CGM	01/04/2024 12:09	CGM	
Temperature 24 Hour	20.6	°C	1	1		01/04/2024 12:09	CGM	01/04/2024 12:09	CGM	
SM 4500-NH3B Ammonia										

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Ammonia as N	340	mg/kg dry wt.	1	1.00		01/04/2024 10:53	IAZ	01/04/2024 10:53	IAZ	
SM 2540G % Sludge										
Total Solids (%)	34.5	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Moisture	65.5	%	1			01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Total Ash (%)	88.4	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Volatile Solids (%)	11.6	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
SW-846 8321 TCLP Herbicides										
2,4-D	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
2,4,5-TP (Silvex)	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
SM 9222D Fecal Coliform 503										
Geometric Mean 503	<1.00	CFU/g TS	1	1.00		01/03/2024 12:55	JHA	01/03/2024 12:55	JHA	
EPA 353.2 Nitrate-N										
Nitrite + Nitrate	<20.0	mg/kg dry wt.	1	20.0		01/12/2024 10:27	HLF	01/12/2024 10:27	HLF	
SW 8270C, Semi-Volatiles										
Acenaphthene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Acenaphthylene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Anthracene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzidine	<645000	ug/kg dry wt.	50	645000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzo(a)anthracene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzo(a)pyrene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzo(b)+(j)fluoranthene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzo(g,h,i)perylene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Benzo(k)fluoranthene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
4-Bromophenyl Phenyl Ether	<100000	ug/kg dry wt.	50	100000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Butyl benzyl phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
4-Chloro-3-methylphenol	<255000	ug/kg dry wt.	50	255000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Bis(2-Chloroethoxy)methane	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Bis(2-Chloroethyl)ether	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Bis(2-Chloroisopropyl)ether	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2-Chloronaphthalene	<100000	ug/kg dry wt.	50	100000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2-Chlorophenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
4-Chlorophenyl Phenyl Ether	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Chrysene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Dibenz(a,h)anthracene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
3,3'-Dichlorobenzidine	<255000	ug/kg dry wt.	50	255000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2,4-Dichlorophenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Diethyl phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2,4-Dimethylphenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Dimethyl phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Di-n-butyl phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
4,6-Dinitro-2-methylphenol	<645000	ug/kg dry wt.	50	645000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
2,4-Dinitrophenol	<645000	ug/kg dry wt.	50	645000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2,4-Dinitrotoluene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2,6-Dinitrotoluene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Di-n-octyl phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
1,2 Diphenylhydrazine	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Bis(2-Ethylhexyl)phthalate	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Fluoranthene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Fluorene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Hexachlorobutadiene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Hexachlorobenzene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Hexachlorocyclopentadiene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Hexachloroethane	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Indeno(1,2,3-cd)pyrene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Isophorone	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Naphthalene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Nitrobenzene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2-Nitrophenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
4-Nitrophenol	<645000	ug/kg dry wt.	50	645000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
n-Nitrosodimethylamine	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
n-Nitrosodi-n-Propylamine	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
n-Nitrosodiphenylamine	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Pentachlorophenol	<645000	ug/kg dry wt.	50	645000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Phenanthrene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Phenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
Pyrene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
1,2,4-Trichlorobenzene	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
2,4,6-Trichlorophenol	<127000	ug/kg dry wt.	50	127000		01/12/2024 19:02	pace	01/12/2024 19:02	pace	
SW 8081A TCLP Pesticides										
Lindane (G-BHC)	<10.00	ug/L	1	10.00		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Chlordane	<10.0	ug/L	1	10.0		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Endrin	<10.00	ug/L	1	10.00		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Heptachlor	<5.00	ug/L	1	5.00		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Heptachlor epoxide	<5.00	ug/L	1	5.00		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Methoxychlor	<10.0	ug/L	1	10.0		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
Toxaphene	<20.0	ug/L	1	20.0		01/10/2024 21:02	pace	01/10/2024 21:02	pace	
SW 8270C TCLP Extractables										
1,4-Dichlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
2,4-Dinitrotoluene	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	2
Hexachlorobutadiene	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
Hexachlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
Hexachloroethane	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
2-Methylphenol (o-Cresol)	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
3+4 Methylphenol (m,p-Cresol)	<40.0	ug/L	1	40.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
Nitrobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
Pentachlorophenol	<100	ug/L	1	100		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
Pyridine	<100	ug/L	1	100		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
2,4,5-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
2,4,6-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:58	pace	01/10/2024 15:58	pace	
EPA1030 Ignitability of Solids										
Ignitability of Solids	<2.20	mm/second	1	2.20		01/09/2024 17:30	pace	01/09/2024 17:30	pace	
EPA 6010B Metals, TCLP										
Arsenic, TCLP	<0.50	mg/L	1	0.50		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Barium, TCLP	<0.7	mg/L	1	0.7		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Cadmium, TCLP	<0.050	mg/L	1	0.050		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Chromium, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Lead, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Selenium, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
Silver, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:44	pace	01/09/2024 16:44	pace	
EPA 7471A, Mercury										
Mercury	<0.190	mg/kg dry wt.	1	0.190		01/18/2024 16:51	pace	01/18/2024 16:51	pace	
EPA 7470A, Mercury										
Mercury, TCLP	<0.0002	mg/L	1	0.0002		01/10/2024 10:50	pace	01/10/2024 10:50	pace	5
SW 8081 OC Pesticide (Solid)										
Aldrin	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
alpha-BHC	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
beta-BHC	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
delta-BHC	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	3
Lindane (G-BHC)	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
Chlordane	<699	ug/kg dry wt.	1	699		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
alpha (cis)-Chlordane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
gamma (trans)-Chlordane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
4,4'-DDD	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
4,4'-DDE	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
4,4'-DDT	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	4
Dieldrin	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
A-Endosulfan	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
B-Endosulfan	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	4
Endosulfan Sulfate	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	4
Endrin	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
Endrin Aldehyde	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
Endrin ketone	<69.9	ug/kg dry wt.	1	69.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	4
Heptachlor	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
Heptachlor epoxide	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 17:04	pace	01/11/2024 17:04	pace	

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Methoxychlor	<349	ug/kg dry wt.	1	349		01/11/2024 17:04	pace	01/11/2024 17:04	pace	4
Toxaphene	<699	ug/kg dry wt.	1	699		01/11/2024 17:04	pace	01/11/2024 17:04	pace	
EPA 9045D Corrosivity by pH										
pH	12.4	pH	1	0.100		01/16/2024 15:11	pace	01/16/2024 15:11	pace	1
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	22900	mg/kg dry wt.	1	2.00		01/04/2024 08:50	SMG	01/04/2024 08:50	SMG	
EPA 9095, Paint Filter Test										
Free Liquids	Negative	P/N	1			01/19/2024 12:37	pace	01/19/2024 12:37	pace	
SM 2540G Total Percent Solids										
Total Solids	25.8	%	1	0.1		01/10/2024 16:02	pace	01/10/2024 16:02	pace	
EPA 9012A Cyanide, Total										
Cyanide, Total	0.800	mg/kg dry wt.	1	0.6		01/16/2024 12:45	pace	01/16/2024 12:45	pace	
EPA 9066, Phenolics, Total Rec										
Phenolics, Total Recoverable	<6	mg/kg dry wt.	1	6		01/17/2024 14:55	pace	01/17/2024 14:55	pace	
ASTM D2974, Percent Moisture										
Percent Moisture	74.9	%	1	0.5		01/17/2024 11:05	pace	01/17/2024 11:05	pace	
SW 8260, Volatiles TCLP										
Benzene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Methyl Ethyl Ketone (MEK)	<1000	ug/L	10	1000		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Carbon tetrachloride	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Chlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Chloroform	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
1,2-Dichloroethane	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
1,4-Dichlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
1,1-Dichloroethene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Tetrachloroethylene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Trichloroethene	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
Vinyl Chloride	<50.0	ug/L	10	50.0		01/09/2024 15:04	pace	01/09/2024 15:04	pace	
EPA 9034 Sulfide, Titration										
Total Sulfide	<194	mg/kg dry wt.	1	194		01/08/2024 14:59	pace	01/08/2024 14:59	pace	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1221 (Aroclor 1221)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1232 (Aroclor 1232)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1242 (Aroclor 1242)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1248 (Aroclor 1248)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1254 (Aroclor 1254)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	
PCB-1260 (Aroclor 1260)	<127	ug/kg dry wt.	1	127		01/12/2024 21:17	pace	01/12/2024 21:17	pace	

Sample Comments

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Lab ID:	23-42423	**Collected:**	01/03/2024 05:40
Sample ID:	JT 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 08:19
Sampling Source:	Operations	**Reported:**	05/23/2024 11:34
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Sample Comments

Second Percent Moisture ASTM D2974 analysis was performed on 1/17/24 at 11:05 with a result of 74.9% with a RL of 0.5 and dilution factor of 1.

Parameter Qualifiers

1	PO - The reported result is outside the range of the pH buffer solutions used to check the calibration of the pH meter.
2	Blank Spike recovery exceeds the acceptance criteria. Sample result is less than the method reporting limit.
3	M1-Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
4	R1-RPD value was outside control limits.
5	Q3-Matrix Spike/ Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
6	EE-Result exceeded calibration range. The reported result is estimated.

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala

Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPWU WWTP PERMIT SAMPLING
Project: HS 503 ANNUAL SLUDGE 2024 (51223)
Sampling Location:

El Paso Water
Haskell R. Street WWTP
4100 Delta Drive
El Paso, TX 79905
USA

Requested By: Ricky Dominguez
El Paso Water Utilities-HRSWWTP
4100 Delta Dr.
El Paso, TX 79905

rdomingue@epwu.org

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SM 4500 H and B										
pH	8.1	pH	1	1		01/02/2024 10:47	SMG	01/02/2024 10:47	SMG	
Temperature	21.8	ºC	1	1		01/02/2024 10:47	SMG	01/02/2024 10:47	SMG	
SW 8260B Volatiles										
Acrolein	<700	ug/kg dry wt.	1	700		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Acrylonitrile	<700	ug/kg dry wt.	1	700		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Benzene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Bromochloromethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Bromodichloromethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Bromoform	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Carbon tetrachloride	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Chlorobenzene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Chloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
2-Chloroethylvinyl ether	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Chloroform	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Chloromethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Chlorodibromomethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,2-Dichlorobenzene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,3-Dichlorobenzene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,4-Dichlorobenzene	631	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,1-Dichloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,2-Dichloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,1-Dichloroethene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
trans-1,2-Dichloroethene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,2-Dichloropropane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
cis-1,3-Dichloropropene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
trans-1,3-Dichloropropene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Ethyl Benzene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Methylene Chloride	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,1,2,2-Tetrachloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Tetrachloroethylene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Toluene	163	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,1,1-Trichloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
1,1,2-Trichloroethane	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Trichloroethene	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
Vinyl Chloride	<34.9	ug/kg dry wt.	1	34.9		01/11/2024 18:07	pace	01/11/2024 18:07	pace	
EPA 6010, ICP Metals										
Aluminum, Total, ICP	4940	mg/kg dry wt.	1	37.4		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Antimony, Total, ICP	<5.00	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Arsenic, Total, ICP	13.3	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Barium, Total, ICP	460	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Beryllium, Total, ICP	<0.500	mg/kg dry wt.	1	0.500		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Boron, Total, ICP	69	mg/kg dry wt.	1	49.8		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Cadmium, Total, ICP	<2.50	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Calcium, Total, ICP	27600	mg/kg dry wt.	1	99.6		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Chromium, Total, ICP	46.9	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Cobalt, Total, ICP	2.60	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Copper, Total, ICP	521	mg/kg dry wt.	1	10.0		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Iron, Total, ICP	28500	mg/kg dry wt.	1	24.9		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Lead, Total, ICP	26.4	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Magnesium, Total, ICP	4750	mg/kg dry wt.	1	24.9		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Manganese, Total, ICP	356	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Molybdenum, Total, ICP	31.4	mg/kg dry wt.	1	10.0		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Nickel, Total, ICP	38.4	mg/kg dry wt.	1	2.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Phosphorus, Total, ICP	20400	mg/kg dry wt.	1	49.8		01/16/2024 09:06	pace	01/16/2024 09:06	pace	3
Potassium, Total, ICP	1760	mg/kg dry wt.	1	249		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Selenium, Total, ICP	10.6	mg/kg dry wt.	1	7.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Silver, Total, ICP	4.00	mg/kg dry wt.	1	3.50		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Sodium, Total, ICP	2610	mg/kg dry wt.	1	249		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Strontium, Total, ICP	623	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Thallium, Total, ICP	<10.0	mg/kg dry wt.	1	10.0		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Tin, Total, ICP	137	mg/kg dry wt.	1	24.9		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Titanium,Total, ICP	120	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Vanadium, Total, ICP	33.5	mg/kg dry wt.	1	5.00		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
Zinc, Total, ICP	920	mg/kg dry wt.	1	49.8		01/16/2024 09:06	pace	01/16/2024 09:06	pace	
SM 4500-NH3B Ammonia										
Ammonia as N	2860	mg/kg dry wt.	1	1.00		01/04/2024 10:53	IAZ	01/04/2024 10:53	IAZ	
SM 2540G % Sludge										
Total Solids (%)	14.4	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Moisture	85.6	%	1			01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Total Ash (%)	23.5	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Volatile Solids (%)	76.5	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SW-846 8321 TCLP Herbicides										
2,4-D	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
2,4,5-TP (Silvex)	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
SM 9222D Fecal Coliform 503										
Geometric Mean 503	688000	CFU/g TS	.001	1.00		01/02/2024 12:31	RIC	01/02/2024 12:31	RIC	
EPA 353.2 Nitrate-N										
Nitrite + Nitrate	98.6	mg/kg dry wt.	1	20.0		01/12/2024 10:27	HLF	01/12/2024 10:27	HLF	
SW 8270C, Semi-Volatiles										
Acenaphthene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Acenaphthylene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Anthracene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzidine	<577000	ug/kg dry wt.	10	577000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzo(a)anthracene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzo(a)pyrene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzo(b)+(j)fluoranthene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzo(g,h,i)perylene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Benzo(k)fluoranthene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
4-Bromophenyl Phenyl Ether	<100000	ug/kg dry wt.	10	100000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Butyl benzyl phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
4-Chloro-3-methylphenol	<228000	ug/kg dry wt.	10	228000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Bis(2-Chloroethoxy)methane	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Bis(2-Chloroethyl)ether	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Bis(2-Chloroisopropyl)ether	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2-Chloronaphthalene	<100000	ug/kg dry wt.	10	100000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2-Chlorophenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
4-Chlorophenyl Phenyl Ether	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Chrysene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Dibenz(a,h)anthracene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
3,3'-Dichlorobenzidine	<228000	ug/kg dry wt.	10	228000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,4-Dichlorophenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Diethyl phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,4-Dimethylphenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Dimethyl phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Di-n-butyl phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
4,6-Dinitro-2-methylphenol	<577000	ug/kg dry wt.	10	577000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,4-Dinitrophenol	<577000	ug/kg dry wt.	10	577000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,4-Dinitrotoluene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,6-Dinitrotoluene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Di-n-octyl phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
1,2 Diphenylhydrazine	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Bis(2-Ethylhexyl)phthalate	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Fluoranthene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Fluorene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Hexachlorobutadiene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Hexachlorobenzene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Hexachlorocyclopentadiene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Hexachloroethane	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Indeno(1,2,3-cd)pyrene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Isophorone	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Naphthalene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Nitrobenzene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2-Nitrophenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
4-Nitrophenol	<577000	ug/kg dry wt.	10	577000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
n-Nitrosodimethylamine	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
n-Nitrosodi-n-Propylamine	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
n-Nitrosodiphenylamine	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Pentachlorophenol	<577000	ug/kg dry wt.	10	577000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Phenanthrene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Phenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
Pyrene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
1,2,4-Trichlorobenzene	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
2,4,6-Trichlorophenol	<114000	ug/kg dry wt.	10	114000		01/12/2024 18:40	pace	01/12/2024 18:40	pace	
SW 8081A TCLP Pesticides										
Lindane (G-BHC)	<10.00	ug/L	1	10.00		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Chlordane	<10.0	ug/L	1	10.0		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Endrin	<10.00	ug/L	1	10.00		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Heptachlor	<5.00	ug/L	1	5.00		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Heptachlor epoxide	<5.00	ug/L	1	5.00		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Methoxychlor	<10.0	ug/L	1	10.0		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
Toxaphene	<20.0	ug/L	1	20.0		01/10/2024 20:43	pace	01/10/2024 20:43	pace	
SW 8270C TCLP Extractables										
1,4-Dichlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
2,4-Dinitrotoluene	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	2
Hexachlorobutadiene	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
Hexachlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
Hexachloroethane	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
2-Methylphenol (o-Cresol)	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
3+4 Methylphenol (m,p-Cresol)	<40.0	ug/L	1	40.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
Nitrobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
Pentachlorophenol	<100	ug/L	1	100		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
Pyridine	<100	ug/L	1	100		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
2,4,5-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
2,4,6-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:31	pace	01/10/2024 15:31	pace	
EPA1030 Ignitability of Solids										
Ignitability of Solids	<2.20	mm/second	1	2.20		01/09/2024 17:26	pace	01/09/2024 17:26	pace	
EPA 6010B Metals, TCLP										
Arsenic, TCLP	<0.50	mg/L	1	0.50		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Barium, TCLP	<0.7	mg/L	1	0.7		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Cadmium, TCLP	<0.050	mg/L	1	0.050		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Chromium, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Lead, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Selenium, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
Silver, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:02	pace	01/09/2024 16:02	pace	
EPA 7471A, Mercury										
Mercury	0.370	mg/kg dry wt.	1	0.320		01/18/2024 16:49	pace	01/18/2024 16:49	pace	
EPA 7470A, Mercury										
Mercury, TCLP	<0.0002	mg/L	1	0.0002		01/10/2024 10:49	pace	01/10/2024 10:49	pace	
SW 8081 OC Pesticide (Solid)										
Aldrin	<57.2	ug/kg dry wt.	1	57.2		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
alpha-BHC	<1140	ug/kg dry wt.	20	1140		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
beta-BHC	<1140	ug/kg dry wt.	20	1140		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
delta-BHC	<57.2	ug/kg dry wt.	1	57.2		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Lindane (G-BHC)	<1140	ug/kg dry wt.	20	1140		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
Chlordane	<22900	ug/kg dry wt.	20	22900		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
alpha (cis)-Chlordane	<1140	ug/kg dry wt.	20	1140		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
gamma (trans)-Chlordane	<1140	ug/kg dry wt.	20	1140		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
4,4'-DDD	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
4,4'-DDE	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
4,4'-DDT	<2290	ug/kg dry wt.	20	2290		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
Dieldrin	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
A-Endosulfan	<57.2	ug/kg dry wt.	1	57.2		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
B-Endosulfan	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Endosulfan Sulfate	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Endrin	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Endrin Aldehyde	<114	ug/kg dry wt.	1	114		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Endrin ketone	<114	ug/kg dry wt.	1	114		01/17/2024 21:53	pace	01/17/2024 21:53	pace	
Heptachlor	<57.2	ug/kg dry wt.	1	57.2		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Heptachlor epoxide	<57.2	ug/kg dry wt.	1	57.2		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Methoxychlor	<11400	ug/kg dry wt.	20	11400		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
Toxaphene	<22900	ug/kg dry wt.	20	22900		01/17/2024 18:54	pace	01/17/2024 18:54	pace	1
EPA 9045D Corrosivity by pH										
pH	7.10	pH	1	0.100		01/16/2024 15:11	pace	01/16/2024 15:11	pace	
SM 4500 Norg C, TKN										

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Nitrogen, Kjeldahl, Total	66800	mg/kg dry wt.	1	2.00		01/04/2024 08:50	SMG	01/04/2024 08:50	SMG	
EPA 9095, Paint Filter Test										
Free Liquids	Negative	P/N	1			01/19/2024 12:36	pace	01/19/2024 12:36	pace	
SM 2540G Total Percent Solids										
Total Solids	13.8	%	1	0.1		01/10/2024 16:02	pace	01/10/2024 16:02	pace	
EPA 9012A Cyanide, Total										
Cyanide, Total	1.40	mg/kg dry wt.	1	1		01/16/2024 12:44	pace	01/16/2024 12:44	pace	
EPA 9066, Phenolics, Total Rec										
Phenolics, Total Recoverable	11.4	mg/kg dry wt.	1	10.4		01/17/2024 14:54	pace	01/17/2024 14:54	pace	
ASTM D2974, Percent Moisture										
Percent Moisture	85.7	%	1	0.5		01/17/2024 11:05	pace	01/17/2024 11:05	pace	
SW 8260, Volatiles TCLP										
Benzene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Methyl Ethyl Ketone (MEK)	<1000	ug/L	10	1000		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Carbon tetrachloride	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Chlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Chloroform	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
1,2-Dichloroethane	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
1,4-Dichlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
1,1-Dichloroethene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Tetrachloroethylene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Trichloroethene	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
Vinyl Chloride	<50.0	ug/L	10	50.0		01/09/2024 14:38	pace	01/09/2024 14:38	pace	
EPA 9034 Sulfide, Titration										
Total Sulfide	<362	mg/kg dry wt.	1	362		01/08/2024 14:59	pace	01/08/2024 14:59	pace	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1221 (Aroclor 1221)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1232 (Aroclor 1232)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1242 (Aroclor 1242)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1248 (Aroclor 1248)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1254 (Aroclor 1254)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	
PCB-1260 (Aroclor 1260)	<238	ug/kg dry wt.	1	238		01/12/2024 21:02	pace	01/12/2024 21:02	pace	

Sample Comments

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Second Percent Moisture ASTM D2974 analysis performed on 01/17/24 at 11:05 with a result of 85.7 and RL of 0.5 and dilution factor of 1.

Parameter Qualifiers

1	D3-Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
2	Blank Spike recovery exceeds the acceptance criteria. Sample result is less than the method reporting limit.
3	EE-Result exceeded calibration range. The reported result is estimated.

Lab ID:	23-42422	**Collected:**	01/02/2024 05:05
Sample ID:	HS 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 09:26
Sampling Source:	Operations	**Reported:**	05/23/2024 11:32
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala
Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPWU WWTP PERMIT SAMPLING
Project: FH 503 ANNUAL SLUDGE 2024 (51222)
Sampling Location:

El Paso Water
Fred Hervey WRP
11700 Railroad Drive
El Paso, TX 79924

Requested By:

Devin V. Chavez
El Paso Water
Fred Hervey WRP
11700 Railroad Drive
El Paso, TX 79924
USA
dvchavez@epwu.org
Ph: (915) 594-5720

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SM 4500 H and B										
pH	12.0	pH	1	1		01/03/2024 13:15	CGM	01/03/2024 13:15	CGM	
Temperature	21.2	ºC	1	1		01/03/2024 13:15	CGM	01/03/2024 13:15	CGM	
SM 4500 (COC) pH										
pH (COC)	13.0	pH	1	1		01/03/2024 05:55	SMP	01/03/2024 05:55	SMP	
Temperature (COC)	17.7	ºC	1	1		01/03/2024 05:55	SMP	01/03/2024 05:55	SMP	
SW 8260B Volatiles										
Acrolein	<600	ug/kg dry wt.	1	600		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Acrylonitrile	<600	ug/kg dry wt.	1	600		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Benzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Bromochloromethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Bromodichloromethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Bromoform	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Carbon tetrachloride	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Chlorobenzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Chloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
2-Chloroethylvinyl ether	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Chloroform	33.7	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Chloromethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Chlorodibromomethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,2-Dichlorobenzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,3-Dichlorobenzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,4-Dichlorobenzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,1-Dichloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,2-Dichloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,1-Dichloroethene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
trans-1,2-Dichloroethene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,2-Dichloropropane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
cis-1,3-Dichloropropene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
trans-1,3-Dichloropropene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Ethyl Benzene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Methylene Chloride	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,1,2,2-Tetrachloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Tetrachloroethylene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Toluene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,1,1-Trichloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
1,1,2-Trichloroethane	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Trichloroethene	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
Vinyl Chloride	<25.0	ug/kg dry wt.	1	25.0		01/11/2024 17:51	pace	01/11/2024 17:51	pace	
EPA 6010, ICP Metals										
Aluminum, Total, ICP	1910	mg/kg dry wt.	1	43.6		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Antimony, Total, ICP	<5.80	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Arsenic, Total, ICP	6.70	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Barium, Total, ICP	180	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Beryllium, Total, ICP	<0.580	mg/kg dry wt.	1	0.580		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Boron, Total, ICP	<58.1	mg/kg dry wt.	1	58.1		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Cadmium, Total, ICP	<2.90	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Calcium, Total, ICP	79200	mg/kg dry wt.	1	116		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Chromium, Total, ICP	26.8	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Cobalt, Total, ICP	<2.90	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Copper, Total, ICP	133	mg/kg dry wt.	1	11.6		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Iron, Total, ICP	2860	mg/kg dry wt.	1	29.0		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Lead, Total, ICP	10	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Magnesium, Total, ICP	6140	mg/kg dry wt.	1	29.0		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Manganese, Total, ICP	84.4	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Molybdenum, Total, ICP	<11.6	mg/kg dry wt.	1	11.6		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Nickel, Total, ICP	9.80	mg/kg dry wt.	1	2.90		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Phosphorus, Total, ICP	23800	mg/kg dry wt.	1	58.1		01/16/2024 08:56	pace	01/16/2024 08:56	pace	3
Potassium, Total, ICP	7770	mg/kg dry wt.	1	290		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Selenium, Total, ICP	15.7	mg/kg dry wt.	1	8.70		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Silver, Total, ICP	<4.10	mg/kg dry wt.	1	4.10		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Sodium, Total, ICP	1500	mg/kg dry wt.	1	290		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Strontium, Total, ICP	315	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Thallium, Total, ICP	<11.6	mg/kg dry wt.	1	11.6		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Tin, Total, ICP	30.2	mg/kg dry wt.	1	29.0		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Titanium,Total, ICP	126	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Vanadium, Total, ICP	19.5	mg/kg dry wt.	1	5.80		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
Zinc, Total, ICP	391	mg/kg dry wt.	1	58.1		01/16/2024 08:56	pace	01/16/2024 08:56	pace	
SM 4500 24 Hour pH										
pH 24 Hour	11.8	pH	1	1		01/04/2024 12:07	CGM	01/04/2024 12:07	CGM	
Temperature 24 Hour	20.6	°C	1	1		01/04/2024 12:07	CGM	01/04/2024 12:07	CGM	
SM 4500-NH3B Ammonia										

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Ammonia as N	492	mg/kg dry wt.	1	1.00		01/04/2024 10:53	IAZ	01/04/2024 10:53	IAZ	
SM 2540G % Sludge										
Total Solids (%)	17.9	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Moisture	82.1	%	1			01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Total Ash (%)	25.2	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
Volatile Solids (%)	74.8	%	1	0.100		01/04/2024 13:09	JPG	01/04/2024 13:09	JPG	
SW-846 8321 TCLP Herbicides										
2,4-D	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
2,4,5-TP (Silvex)	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
SM 9222D Fecal Coliform 503										
Geometric Mean 503	<1.00	CFU/g TS	1	1.00		01/03/2024 12:55	JHA	01/03/2024 12:55	JHA	
EPA 353.2 Nitrate-N										
Nitrite + Nitrate	<20.0	mg/kg dry wt.	1	20.0		01/12/2024 10:27	HLF	01/12/2024 10:27	HLF	
SW 8270C, Semi-Volatiles										
Acenaphthene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Acenaphthylene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Anthracene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Benzidine	<1160000	ug/kg dry wt.	20	116000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Benzo(a)anthracene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Benzo(a)pyrene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Benzo(b)+(j)fluoranthene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Benzo(g,h,i)perylene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Benzo(k)fluoranthene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
4-Bromophenyl Phenyl Ether	<200000	ug/kg dry wt.	20	200000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Butyl benzyl phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
4-Chloro-3-methylphenol	<460000	ug/kg dry wt.	20	460000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Bis(2-Chloroethoxy)methane	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Bis(2-Chloroethyl)ether	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Bis(2-Chloroisopropyl)ether	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2-Chloronaphthalene	<200000	ug/kg dry wt.	20	200000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2-Chlorophenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
4-Chlorophenyl Phenyl Ether	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Chrysene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Dibenz(a,h)anthracene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
3,3'-Dichlorobenzidine	<460000	ug/kg dry wt.	20	460000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2,4-Dichlorophenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Diethyl phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2,4-Dimethylphenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Dimethyl phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Di-n-butyl phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
4,6-Dinitro-2-methylphenol	<1160000	ug/kg dry wt.	20	116000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
2,4-Dinitrophenol	<1160000	ug/kg dry wt.	20	116000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
2,4-Dinitrotoluene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
2,6-Dinitrotoluene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Di-n-octyl phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
1,2 Diphenylhydrazine	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Bis(2-Ethylhexyl)phthalate	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Fluoranthene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Fluorene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Hexachlorobutadiene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Hexachlorobenzene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Hexachlorocyclopentadiene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Hexachloroethane	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Indeno(1,2,3-cd)pyrene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Isophorone	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Naphthalene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Nitrobenzene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2-Nitrophenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
4-Nitrophenol	<1160000	ug/kg dry wt.	20	116000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
n-Nitrosodimethylamine	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
n-Nitrosodi-n-Propylamine	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
n-Nitrosodiphenylamine	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Pentachlorophenol	<1160000	ug/kg dry wt.	20	116000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
Phenanthrene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Phenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
Pyrene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
1,2,4-Trichlorobenzene	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	
2,4,6-Trichlorophenol	<230000	ug/kg dry wt.	20	230000		01/12/2024 17:35	pace	01/12/2024 17:35	pace	2
SW 8081A TCLP Pesticides										
Lindane (G-BHC)	<10.00	ug/L	1	10.00		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Chlordane	<10.0	ug/L	1	10.0		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Endrin	<10.00	ug/L	1	10.00		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Heptachlor	<5.00	ug/L	1	5.00		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Heptachlor epoxide	<5.00	ug/L	1	5.00		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Methoxychlor	<10.0	ug/L	1	10.0		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
Toxaphene	<20.0	ug/L	1	20.0		01/10/2024 20:24	pace	01/10/2024 20:24	pace	
SW 8270C TCLP Extractables										
1,4-Dichlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
2,4-Dinitrotoluene	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	1
Hexachlorobutadiene	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
Hexachlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
Hexachloroethane	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
2-Methylphenol (o-Cresol)	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
3+4 Methylphenol (m,p-Cresol)	<40.0	ug/L	1	40.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
Nitrobenzene	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
Pentachlorophenol	<100	ug/L	1	100		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
Pyridine	<100	ug/L	1	100		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
2,4,5-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
2,4,6-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 15:04	pace	01/10/2024 15:04	pace	
EPA1030 Ignitability of Solids										
Ignitability of Solids	<2.20	mm/second	1	2.20		01/09/2024 17:20	pace	01/09/2024 17:20	pace	
EPA 6010B Metals, TCLP										
Arsenic, TCLP	<0.50	mg/L	1	0.50		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Barium, TCLP	<0.7	mg/L	1	0.7		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Cadmium, TCLP	<0.050	mg/L	1	0.050		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Chromium, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Lead, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Selenium, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
Silver, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:00	pace	01/09/2024 16:00	pace	
EPA 7471A, Mercury										
Mercury	<0.270	mg/kg dry wt.	1	0.270		01/18/2024 16:44	pace	01/18/2024 16:44	pace	
EPA 7470A, Mercury										
Mercury, TCLP	<0.0002	mg/L	1	0.0002		01/10/2024 10:49	pace	01/10/2024 10:49	pace	
SW 8081 OC Pesticide (Solid)										
Aldrin	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
alpha-BHC	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
beta-BHC	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
delta-BHC	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Lindane (G-BHC)	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Chlordane	<1060	ug/kg dry wt.	1	1060		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
alpha (cis)-Chlordane	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
gamma (trans)-Chlordane	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
4,4'-DDD	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
4,4'-DDE	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
4,4'-DDT	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Dieldrin	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
A-Endosulfan	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
B-Endosulfan	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Endosulfan Sulfate	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Endrin	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Endrin Aldehyde	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Endrin ketone	<106	ug/kg dry wt.	1	106		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Heptachlor	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Heptachlor epoxide	<53.0	ug/kg dry wt.	1	53.0		01/11/2024 17:16	pace	01/11/2024 17:16	pace	

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Methoxychlor	<530	ug/kg dry wt.	1	530		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
Toxaphene	<1060	ug/kg dry wt.	1	1060		01/11/2024 17:16	pace	01/11/2024 17:16	pace	
EPA 9045D Corrosivity by pH										
pH	10.8	pH	1	0.100		01/16/2024 15:11	pace	01/16/2024 15:11	pace	
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	69500	mg/kg dry wt.	1	2.00		01/04/2024 08:50	SMG	01/04/2024 08:50	SMG	
EPA 9095, Paint Filter Test										
Free Liquids	Negative	P/N	1	1		01/19/2024 12:35	pace	01/19/2024 12:35	pace	
SM 2540G Total Percent Solids										
Total Solids	16.8	%	1	0.1		01/10/2024 16:01	pace	01/10/2024 16:01	pace	
EPA 9012A Cyanide, Total										
Cyanide, Total	1.10	mg/kg dry wt.	1	0.92		01/16/2024 12:42	pace	01/16/2024 12:42	pace	
EPA 9066, Phenolics, Total Rec										
Phenolics, Total Recoverable	<9	mg/kg dry wt.	1	9		01/17/2024 14:53	pace	01/17/2024 14:53	pace	
ASTM D2974, Percent Moisture										
Percent Moisture	83.4	%	1	0.5		01/17/2024 11:05	pace	01/17/2024 11:05	pace	
SW 8260, Volatiles TCLP										
Benzene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Methyl Ethyl Ketone (MEK)	<1000	ug/L	10	1000		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Carbon tetrachloride	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Chlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Chloroform	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
1,2-Dichloroethane	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
1,4-Dichlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
1,1-Dichloroethene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Tetrachloroethylene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Trichloroethene	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
Vinyl Chloride	<50.0	ug/L	10	50.0		01/09/2024 14:12	pace	01/09/2024 14:12	pace	
EPA 9034 Sulfide, Titration										
Total Sulfide	<298	mg/kg dry wt.	1	298		01/08/2024 14:59	pace	01/08/2024 14:59	pace	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1221 (Aroclor 1221)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1232 (Aroclor 1232)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1242 (Aroclor 1242)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1248 (Aroclor 1248)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1254 (Aroclor 1254)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	
PCB-1260 (Aroclor 1260)	<390	ug/kg dry wt.	1	390		01/12/2024 20:02	pace	01/12/2024 20:02	pace	

Sample Comments

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Lab ID:	23-42421	**Collected:**	01/03/2024 05:25
Sample ID:	FH 503 ANNUAL SLUDGE 2024	**Received:**	01/03/2024 07:42
Sampling Source:	Operations	**Reported:**	05/23/2024 11:29
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Sample Comments

Second Percent Moisture ASTM D2974 performed on 1/17/24 at 11:05 with result 83.4% RL 0.50 dilution Factor 1.

Parameter Qualifiers

1	Blank Spike recovery exceeds the acceptance criteria. Sample result is less than the method reporting limit.
2	M1-Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
3	EE-Result exceeded calibration range. The reported result is estimated.

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala

Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPWU WWTP PERMIT SAMPLING
Project: RB 503 ANNUAL SLUDGE 2024 (51225)
Sampling Location:

El Paso Water
Roberto R. Bustamante WWTP
10001 Southside Road
El Paso, TX 79927

Requested By: Martin Ortiz
El Paso Water
Roberto R. Bustamante WWTP
10001 Southside Road
El Paso, TX 79927
mlortiz@epwater.org

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SM 4500 H and B										
pH	8.3	pH	1	1		01/02/2024 10:38	SMG	01/02/2024 10:38	SMG	
Temperature	22.4	ºC	1	1		01/02/2024 10:38	SMG	01/02/2024 10:38	SMG	
SW 8260B Volatiles										
Acrolein	<800	ug/kg dry wt.	1	800		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Acrylonitrile	<800	ug/kg dry wt.	1	800		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Benzene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Bromochloromethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Bromodichloromethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Bromoform	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Carbon tetrachloride	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Chlorobenzene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Chloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
2-Chloroethylvinyl ether	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Chloroform	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Chloromethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Chlorodibromomethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,2-Dichlorobenzene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,3-Dichlorobenzene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,4-Dichlorobenzene	697	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,1-Dichloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,2-Dichloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,1-Dichloroethene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
trans-1,2-Dichloroethene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,2-Dichloropropane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
cis-1,3-Dichloropropene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
trans-1,3-Dichloropropene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Ethyl Benzene	108	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Methylene Chloride	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,1,2,2-Tetrachloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Tetrachloroethylene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Toluene	300	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,1,1-Trichloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
1,1,2-Trichloroethane	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Trichloroethene	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
Vinyl Chloride	<41.2	ug/kg dry wt.	1	41.2		01/11/2024 18:39	pace	01/11/2024 18:39	pace	
EPA 6010, ICP Metals										
Aluminum, Total, ICP	11300	mg/kg dry wt.	1	43.5		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Antimony, Total, ICP	<5.80	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Arsenic, Total, ICP	24.7	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Barium, Total, ICP	270	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Beryllium, Total, ICP	<0.580	mg/kg dry wt.	1	0.580		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Boron, Total, ICP	75	mg/kg dry wt.	1	58.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Cadmium, Total, ICP	<2.90	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Calcium, Total, ICP	21600	mg/kg dry wt.	1	116		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Chromium, Total, ICP	31.7	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Cobalt, Total, ICP	<2.90	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Copper, Total, ICP	438	mg/kg dry wt.	1	11.6		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Iron, Total, ICP	9650	mg/kg dry wt.	1	29.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Lead, Total, ICP	15.3	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Magnesium, Total, ICP	3500	mg/kg dry wt.	1	29.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Manganese, Total, ICP	145	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Molybdenum, Total, ICP	22.4	mg/kg dry wt.	1	11.6		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Nickel, Total, ICP	26.6	mg/kg dry wt.	1	2.90		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Phosphorus, Total, ICP	15400	mg/kg dry wt.	1	58.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	3
Potassium, Total, ICP	1810	mg/kg dry wt.	1	290		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Selenium, Total, ICP	25.1	mg/kg dry wt.	1	8.70		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Silver, Total, ICP	<4.10	mg/kg dry wt.	1	4.10		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Sodium, Total, ICP	3040	mg/kg dry wt.	1	290		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Strontium, Total, ICP	394	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Thallium, Total, ICP	<11.6	mg/kg dry wt.	1	11.6		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Tin, Total, ICP	37.3	mg/kg dry wt.	1	29.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Titanium,Total, ICP	108	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Vanadium, Total, ICP	61.5	mg/kg dry wt.	1	5.80		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
Zinc, Total, ICP	1430	mg/kg dry wt.	1	58.0		01/16/2024 09:10	pace	01/16/2024 09:10	pace	
SM 4500-NH3B Ammonia										
Ammonia as N	5400	mg/kg dry wt.	1	1.00		01/04/2024 10:53	IAZ	01/04/2024 10:53	IAZ	
SM 2540G % Sludge										
Total Solids (%)	13.0	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Moisture	87.0	%	1			01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Total Ash (%)	24.0	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	
Volatile Solids (%)	76.0	%	1	0.100		01/02/2024 17:00	JPG	01/02/2024 17:00	JPG	

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
SW-846 8321 TCLP Herbicides										
2,4-D	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
2,4,5-TP (Silvex)	<0.050	mg/L	1	0.050		01/10/2024 13:42	pace	01/10/2024 13:42	pace	
SM 9222D Fecal Coliform 503										
Geometric Mean 503	324000	CFU/g TS	.001	1.00		01/02/2024 12:31	RIC	01/02/2024 12:31	RIC	
EPA 353.2 Nitrate-N										
Nitrite + Nitrate	36.4	mg/kg dry wt.	1	20.0		01/12/2024 10:27	HLF	01/12/2024 10:27	HLF	
SW 8270C, Semi-Volatiles										
Acenaphthene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Acenaphthylene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Anthracene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzidine	<270000	ug/kg dry wt.	10	270000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzo(a)anthracene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzo(a)pyrene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzo(b)+(j)fluoranthene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzo(g,h,i)perylene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Benzo(k)fluoranthene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
4-Bromophenyl Phenyl Ether	<50000	ug/kg dry wt.	10	50000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Butyl benzyl phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
4-Chloro-3-methylphenol	<107000	ug/kg dry wt.	10	107000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Bis(2-Chloroethoxy)methane	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Bis(2-Chloroethyl)ether	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Bis(2-Chloroisopropyl)ether	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2-Chloronaphthalene	<50000	ug/kg dry wt.	10	50000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2-Chlorophenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
4-Chlorophenyl Phenyl Ether	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Chrysene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Dibenz(a,h)anthracene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
3,3'-Dichlorobenzidine	<107000	ug/kg dry wt.	10	107000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,4-Dichlorophenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Diethyl phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,4-Dimethylphenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Dimethyl phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Di-n-butyl phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
4,6-Dinitro-2-methylphenol	<270000	ug/kg dry wt.	10	270000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,4-Dinitrophenol	<270000	ug/kg dry wt.	10	270000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,4-Dinitrotoluene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,6-Dinitrotoluene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Di-n-octyl phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
1,2 Diphenylhydrazine	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Bis(2-Ethylhexyl)phthalate	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Fluoranthene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Fluorene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Hexachlorobutadiene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Hexachlorobenzene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Hexachlorocyclopentadiene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Hexachloroethane	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Indeno(1,2,3-cd)pyrene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Isophorone	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Naphthalene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Nitrobenzene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2-Nitrophenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
4-Nitrophenol	<270000	ug/kg dry wt.	10	270000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
n-Nitrosodimethylamine	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
n-Nitrosodi-n-Propylamine	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
n-Nitrosodiphenylamine	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Pentachlorophenol	<270000	ug/kg dry wt.	10	270000		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Phenanthrene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Phenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
Pyrene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
1,2,4-Trichlorobenzene	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
2,4,6-Trichlorophenol	<53400	ug/kg dry wt.	10	53400		01/12/2024 19:23	pace	01/12/2024 19:23	pace	
SW 8081A TCLP Pesticides										
Lindane (G-BHC)	<10.00	ug/L	1	10.00		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Chlordane	<10.0	ug/L	1	10.0		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Endrin	<10.00	ug/L	1	10.00		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Heptachlor	<5.00	ug/L	1	5.00		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Heptachlor epoxide	<5.00	ug/L	1	5.00		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Methoxychlor	<10.0	ug/L	1	10.0		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
Toxaphene	<20.0	ug/L	1	20.0		01/10/2024 21:20	pace	01/10/2024 21:20	pace	
SW 8270C TCLP Extractables										
1,4-Dichlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
2,4-Dinitrotoluene	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	2
Hexachlorobutadiene	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
Hexachlorobenzene	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
Hexachloroethane	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
2-Methylphenol (o-Cresol)	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
3+4 Methylphenol (m,p-Cresol)	<40.0	ug/L	1	40.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
Nitrobenzene	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
Pentachlorophenol	<100	ug/L	1	100		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
Pyridine	<100	ug/L	1	100		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
2,4,5-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
2,4,6-Trichlorophenol	<20.0	ug/L	1	20.0		01/10/2024 16:25	pace	01/10/2024 16:25	pace	
EPA1030 Ignitability of Solids										
Ignitability of Solids	<2.20	mm/second	1	2.20		01/09/2024 17:33	pace	01/09/2024 17:33	pace	
EPA 6010B Metals, TCLP										
Arsenic, TCLP	<0.50	mg/L	1	0.50		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Barium, TCLP	<0.7	mg/L	1	0.7		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Cadmium, TCLP	<0.050	mg/L	1	0.050		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Chromium, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Lead, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Selenium, TCLP	<0.40	mg/L	1	0.40		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
Silver, TCLP	<0.05	mg/L	1	0.05		01/09/2024 16:05	pace	01/09/2024 16:05	pace	
EPA 7471A, Mercury										
Mercury	0.530	mg/kg dry wt.	1	0.340		01/18/2024 16:53	pace	01/18/2024 16:53	pace	
EPA 7470A, Mercury										
Mercury, TCLP	<0.0002	mg/L	1	0.0002		01/10/2024 10:49	pace	01/10/2024 10:49	pace	
SW 8081 OC Pesticide (Solid)										
Aldrin	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
alpha-BHC	<687	ug/kg dry wt.	10	687		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
beta-BHC	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
delta-BHC	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Lindane (G-BHC)	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Chlordane	<13700	ug/kg dry wt.	10	13700		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
alpha (cis)-Chlordane	<687	ug/kg dry wt.	10	687		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
gamma (trans)-Chlordane	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
4,4'-DDD	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
4,4'-DDE	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
4,4'-DDT	<1370	ug/kg dry wt.	10	1370		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
Dieldrin	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
A-Endosulfan	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
B-Endosulfan	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Endosulfan Sulfate	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Endrin	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Endrin Aldehyde	<137	ug/kg dry wt.	1	137		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Endrin ketone	<137	ug/kg dry wt.	1	137		01/17/2024 22:06	pace	01/17/2024 22:06	pace	
Heptachlor	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Heptachlor epoxide	<68.7	ug/kg dry wt.	1	68.7		01/17/2024 22:19	pace	01/17/2024 22:19	pace	
Methoxychlor	<6870	ug/kg dry wt.	10	6870		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
Toxaphene	<13700	ug/kg dry wt.	10	13700		01/17/2024 18:41	pace	01/17/2024 18:41	pace	1
EPA 9045D Corrosivity by pH										
pH	7.40	pH	1	0.100		01/16/2024 15:11	pace	01/16/2024 15:11	pace	
SM 4500 Norg C, TKN										

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Nitrogen, Kjeldahl, Total	71300	mg/kg dry wt.	1	2.00		01/04/2024 08:50	SMG	01/04/2024 08:50	SMG	
EPA 9095, Paint Filter Test										
Free Liquids	Negative	P/N	1			01/19/2024 12:38	pace	01/19/2024 12:38	pace	
SM 2540G Total Percent Solids										
Total Solids	12.7	%	1	0.1		01/10/2024 16:02	pace	01/10/2024 16:02	pace	
EPA 9012A Cyanide, Total										
Cyanide, Total	3.00	mg/kg dry wt.	1	1.2		01/16/2024 12:49	pace	01/16/2024 12:49	pace	
EPA 9066, Phenolics, Total Rec										
Phenolics, Total Recoverable	54	mg/kg dry wt.	1	12.2		01/17/2024 14:56	pace	01/17/2024 14:56	pace	
ASTM D2974, Percent Moisture										
Percent Moisture	87.9	%	1	0.5		01/17/2024 11:05	pace	01/17/2024 11:05	pace	
SW 8260, Volatiles TCLP										
Benzene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Methyl Ethyl Ketone (MEK)	<1000	ug/L	10	1000		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Carbon tetrachloride	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Chlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Chloroform	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
1,2-Dichloroethane	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
1,4-Dichlorobenzene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
1,1-Dichloroethene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Tetrachloroethylene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Trichloroethene	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
Vinyl Chloride	<50.0	ug/L	10	50.0		01/09/2024 15:31	pace	01/09/2024 15:31	pace	
EPA 9034 Sulfide, Titration										
Total Sulfide	<394	mg/kg dry wt.	1	394		01/08/2024 14:59	pace	01/08/2024 14:59	pace	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1221 (Aroclor 1221)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1232 (Aroclor 1232)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1242 (Aroclor 1242)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1248 (Aroclor 1248)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1254 (Aroclor 1254)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	
PCB-1260 (Aroclor 1260)	<257	ug/kg dry wt.	1	257		01/12/2024 21:32	pace	01/12/2024 21:32	pace	

Sample Comments

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Second Percent Moisture ASTM D2974 analysis was performed on 1/17/24 at 11:05 with a result of 87.9% with a RL of 0.5 and dilution factor of 1.

Parameter Qualifiers

1	D3-Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
2	Blank Spike recovery exceeds the acceptance criteria. Sample result is less than the method reporting limit.
3	EE-Result exceeded calibration range. The reported result is estimated.

Lab ID:	23-42424	**Collected:**	01/02/2024 05:00
Sample ID:	RB 503 ANNUAL SLUDGE 2024	**Received:**	01/02/2024 08:15
Sampling Source:	Operations	**Reported:**	05/23/2024 11:36
Sample Type:	GRAB	**Matrix:**	Solid/Sludge

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

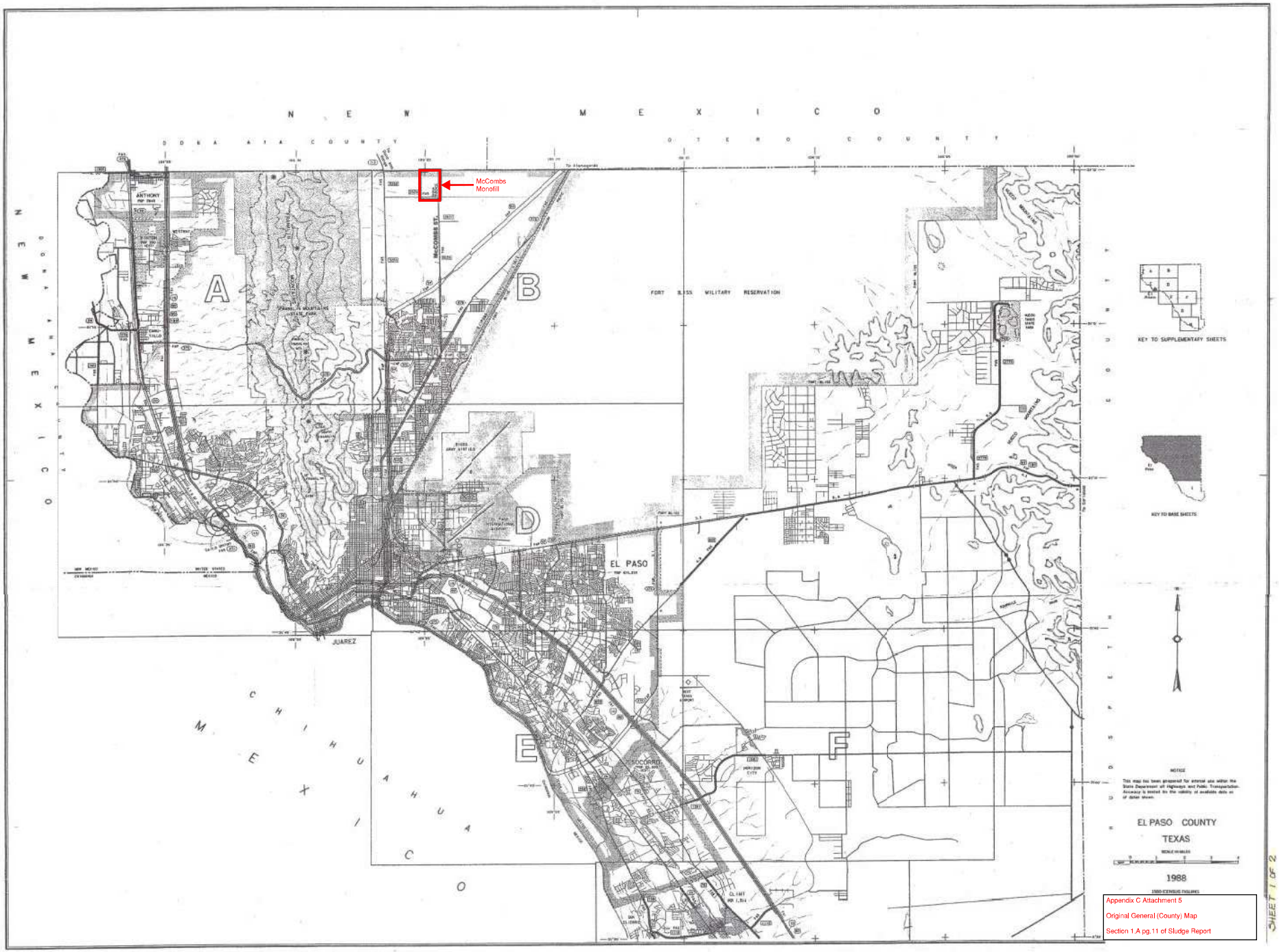
We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

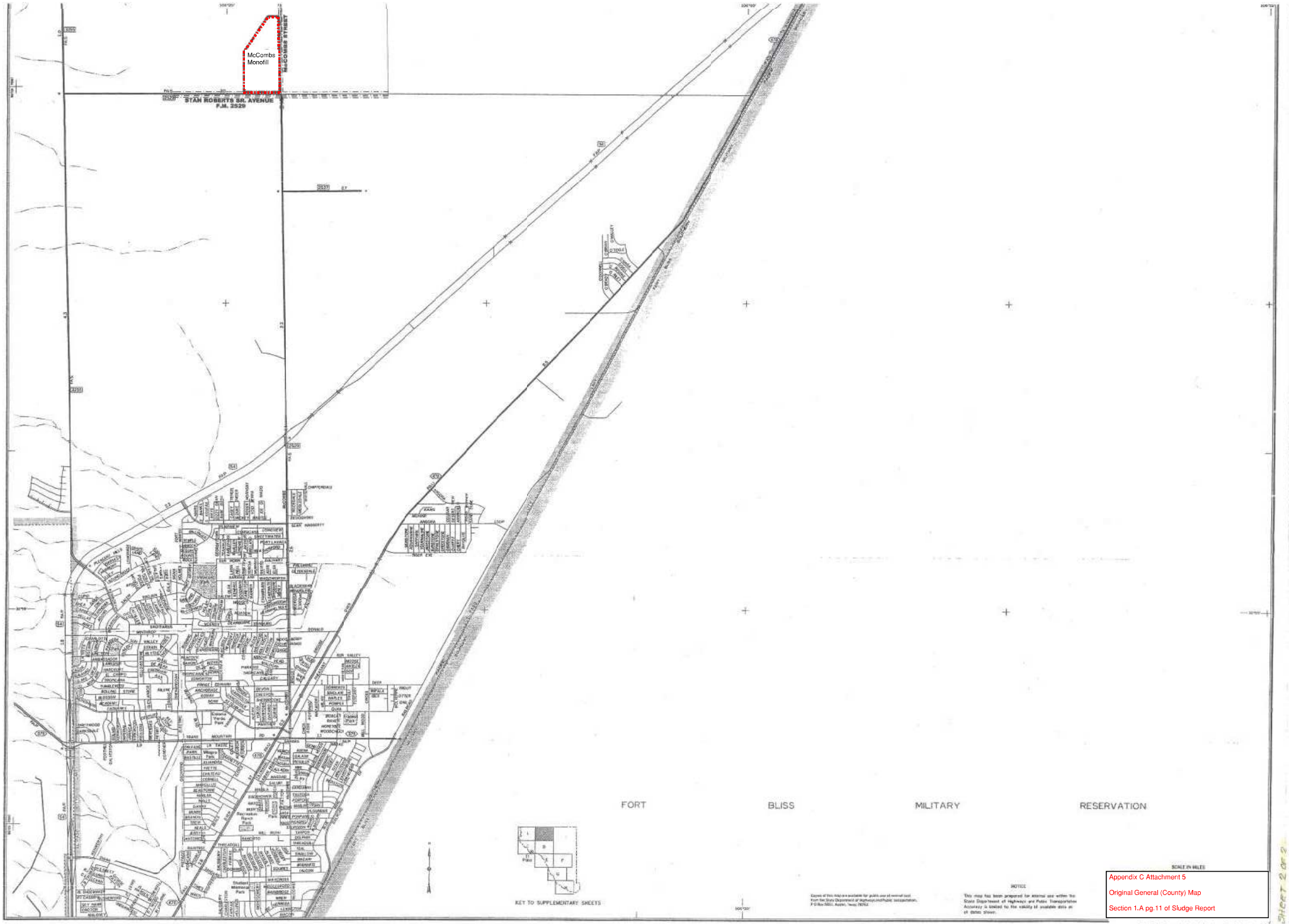
Teresa Alcala
Laboratory Services Manager

Appendix C, Attachment 5

Original General Highway County Map

Section 1 of worksheet 4.0 pg. 11


N E W M E X I C O
D O N A A N A C O U N T Y
O T E R O C O U N T Y
McCombs
Monofill
ANTHONY
McCOMBS ST.
FORT BLISS MILITARY RESERVATION
EL PASO
JUAREZ
SOCORRO
A
B
D
E
F
KEY TO SUPPLEMENTARY SHEETS
KEY TO BASE SHEETS
EL PASO COUNTY
TEXAS
1988
Appendix C Attachment 5
Original General (County) Map
Section 1.A pg.11 of Sludge Report
SHEET 1 OF 2



Appendix C Attachment 5

Original General (County) Map

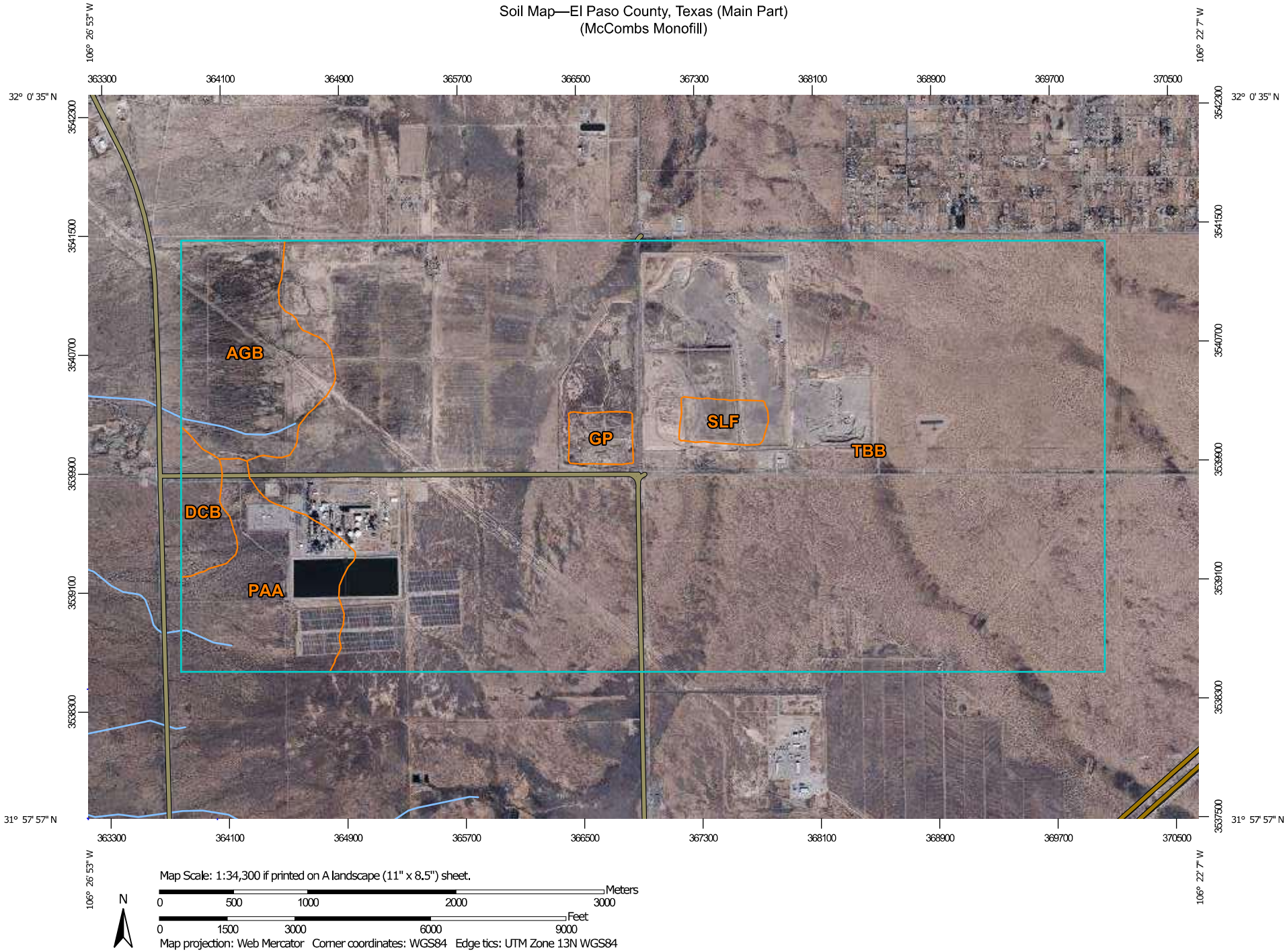
Section 1.A pg.11 of Sludge Report

Appendix C, Attachment 6

USDA Natural Resources Conservation Service Soil Map

Section 1 of worksheet 4.0 pg. 11

Soil Map—El Paso County, Texas (Main Part)
(McCombs Monofill)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:31,700.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: El Paso County, Texas (Main Part)
Survey Area Data: Version 22, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 5, 2022—Dec 27, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AGB	Agustin association, undulating	293.8	6.5%
DCB	Delnorte-Canutio association, undulating	64.4	1.4%
GP	Pits, gravel	37.0	0.8%
PAA	Pajarito association, level	273.3	6.1%
SLF	Urban land, sanitary landfill	42.3	0.9%
TBB	Turney-Berino association, undulating	3,778.1	84.2%
Totals for Area of Interest		**4,489.0**	**100.0%**

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Appendix C, Attachment 7

Federal Emergency Management Agency Map

Section 1 of worksheet 4.0 pg. 11

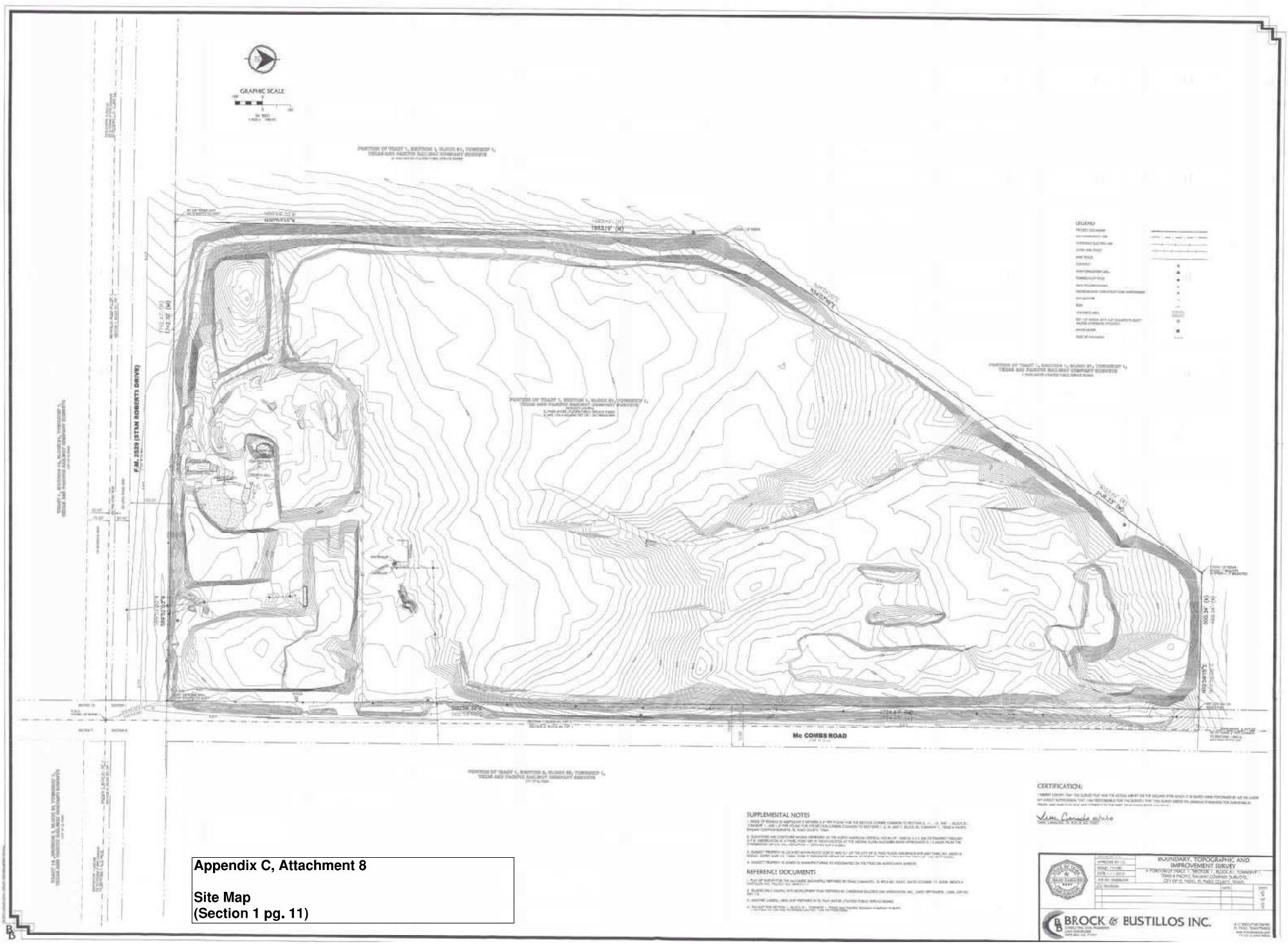
Appendix C Attachment 7
Federal Emergency Management Agency (FEMA) Map

Section 1.A of worksheet 4, pg. 11 of Sludge Report

Appendix C, Attachment 8

Site Map

Section 1 of worksheet 4.0 pg. 11



Appendix C, Attachment 8

Site Map
(Section 1 pg. 11)

Appendix C, Attachment 9.1

Disposal Information

Section 2.A-B of worksheet 4.0 pg. 11

Appendix C, Attachment 9.1

Section 2A-2B, page 12 of the Sewage Sludge Technical Report 4.0

Disposal Information

The information provided for this item corresponds to the annual sludge produced by the permitted wastewater treatment facility during the period that includes September 2023 to August 2024 and which was disposed 100% at Cerro Alto Monofill, a contracted permitted facility, owned and operated by Cemex, Inc.

The dewatered sludge produced by the treatment facility can be transported by a certified carrier and discarded at the TCEQ-approved sludge-only Monofill, Cerro Alto Monofill, Permit No. WQ004636000 (surface disposal) and Registration No. 42036 (composting), both located in Hudspeth County. Additionally, the waste activated sludge from the treatment facility can be conveyed through the El Paso Water Utilities Public Service Board-owned pipeline to the El Paso Water Utilities Public Service Board Haskell R. Street Wastewater Treatment Plant, Permit No. WQ0010408004, for digestion, dewatering, and eventual disposal along with most the plant's sludge. In case of emergencies, the preliminary permit allows for the disposal of sludge at the TCEQ-approved sludge-only Monofill, McCombs Monofill (surface disposal), Permit No. WQ0010408004, in El Paso County. Furthermore, the preliminary permit also permits the disposal of sludge at a TCEQ-authorized land application site, surface disposal site, or co-disposal landfill.

El Paso Water Utilities, the owner of McCombs Monofill, plans to retain the option to dispose of sludge generated from its authorized wastewater and water treatment facilities at the McCombs Monofill (TCEQ Permit No. WQ0010408-004) as an alternative disposal location in case of emergency situations. El Paso Water Utilities anticipates that these emergencies will not last longer than one month, with the volume of sludge generated during this period expected to be the highest monthly production from each facility. The total estimated sludge production for all sludge-generating facilities is around 16,157 dry metric tons from the period of September 2023 to August 2024. Emergency situations may involve the closure of access roads to the designated Monofill due to severe weather conditions or other circumstances beyond the contractor's control, as well as the contractor losing or failing to renew their permit.

TCLP Results

TCLP Test Result for each source is provided on Appendix C, Attachment 9.3.

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Appendix C, Attachment 9.2

Sludge Disposal Report

Section 2.A-C of worksheet 4.0 pg. 11

el paso
WATER

VIA CERTIFIED MAIL: 7020 1290 0000 7466 1528

September 18, 2024

Texas Commission on Environmental Quality
Municipal Permits Team (MC 148)
Wastewater Permitting Section
12100 Park 35 Circle, Bldg. C
Austin, TX 78753

Re: 2024 Annual Sludge Report
McCombs Monofill, Registration No. WQ0010408-004

To Whom It May Concern:

Enclosed please find the Annual Sludge Report and Summary Sheet for the above referenced registration number. There was **no** wastewater sludge or water sludge surface disposed at the McCombs Monofill during the reporting period of September 1, 2023 to August 31, 2024. All wastewater and water sludge produced by El Paso Water Utilities was surface disposed at a contracted private Monofill, owned and operated by GCC Sun City Materials, LLC. under permit number 04636.

Should you have any questions, please do not hesitate to contact me at your earliest convenience at (915) 487-7739.

Sincerely,

Angel Bustamante PE
El Paso Water
Wastewater Systems Division Manager

Enclosures: 2024 Annual Sludge Report "McCombs Sludge Only Monofill", WQ0010408-004

cc: TCEQ Region 6, El Paso, TX – Certified Mail: 7020 1290 0000 7466 1535
File, EPWU Biosolids Management
Ruben Rodriguez, Chief Water Quality Compliance Officer (w/enclosures)

2024 Annual Sludge Report

McCombs Sludge Only Landfill

Permit #0010408-004

Reporting Period: September 1, 2023 through August 31, 2024

Billing Address:

El Paso Water – Public Service Board
P. O. Box 511
El Paso, TX 79961-0511

Contacts:

Sludge Generator/Producer and Monofill Owner:

El Paso Water – Public Service Board
P. O. Box 511
El Paso, TX 79961-0001
Attn: Angel Bustamante, Wastewater Systems Division Manager

at one or two of the Monofill's monitoring wells, but the maximum methane concentration level detected was significantly below the Lower Explosive Limit. There is no growth of food, feed or fiber crops or animal grazing permitted at the Monofill. The groundwater beneath the Monofill has in the past been monitored for a broad spectrum of contaminants. Two of four monitoring wells (LF1 and LF3) were replaced in 2010. A comparable alternative well was used to meet the monitoring requirements as approved by TCEQ in 2009 during the construction period of these two wells (now LF1A and LF3A respectively). Elevated levels of nitrate have inconsistently measured in one or more of the groundwater monitoring wells, however a preliminary evaluation by hydrogeology experts has not produced conclusive results that could be assessed to a groundwater contamination event as defined by TAC§312.8(19). Nitrate levels just above 10.0mg/L were inconsistently detected within this reporting period. Hydrocarbons were detected at LF3A. The McCombs Monofill is being maintained as a surface disposal site for "emergency only" purposes. No additional sludge has been placed at the McCombs Monofill since January 8, 2004. The primary sludge disposal site for EPWU-generated sludge is the Cerro Alto Monofill, which is privately owned and operated by Cemex, Inc. under TCEQ Permit No. 04636.

9. Identity of hauler(s) and TCEQ transporter number.
GCC Sun City Materials, LLC, TCEQ Transporter Registration #24841.

10. Level of pathogen reduction achieved (Class A or Class B).
Class B Sludge

Signed:
EL PASO WATER

Angel Bustamante PE
Wastewater Systems Division Manager

ATTACHMENT B
AMOUNT OF SLUDGE SURFACE DISPOSED

ATTACHMENT B - ANNUAL BIOSOLIDS & RESIDUALS DISPOSAL

EL PASO WATER UTILITIES TREATMENT PLANT	DISPOSAL SITE CERRO ALTO MONOFILL[1,2] Permit #04636		DISPOSAL SITE MCCOMBS MONOFILL[4] Permit #WQ0010408004		DISPOSAL SITE Interstate (Landfill)[5]	
	DRY WEIGHT[3] (US)	DRY WEIGHT (SI)	DRY WEIGHT[3] (US)	DRY WEIGHT (SI)	DRY WEIGHT[3] (US)	DRY WEIGHT (SI)
	ton	t	ton	t	ton	t
John T. Hickerson WRTP (Northwest)	1,626	1,475	0	0	0	0
Haskell R Street WWTP	3,681	3,340	0	0	0	0
R Bustamante WWTP	5,452	4,947	0	0	0	0
F Hervey WRP (Sewage Sludge)	1,874	1,701	0	0	0	0
F Hervey WRP (Water Treatment Resid)	2,999	2,721	0	0	0	0
J Rogers WTP (Water Treatment Resid)	2173	1,972	0	0	0	0
Others[5]	0	0	0	0	0	0
Sub-total Biosolids Generated	17,804	16,157	0	0	0	0
Less Biosolids to Special Projects	0	0	0	0	0	0
Total Residuals and Biosolids Disposal Sept. 1, 2023 - Aug. 31, 2024	**17,804**	**16,157**	**0**	**0**	**0**	**0**

Notes:

1. Surface Disposal 100% at Cerro Alto Monofill, a privately owned and operated Monofill by GCC.
2. Quantities in accordance to GCC Sludge Loading and Hauling Manifests.
3. Dry Weight calculated based on EPWU Percent Solids (Total Solids) laboratory analyses for each plant.
4. McCombs Monofill is available for emergency disposals only. No disposal of biosolids ocurred at this site.

Appendix C, Attachment 9.3

TCLP Test Results

Section 2.D of worksheet 4.0 pg. 12

Northwest WWTP
TPDES No. WQ001048-009

OTHER SLUDGE REQUIREMENTS LISTED ON NUMBER 8, PAGE 24 OF THE WASTEWATER PERMIT (REQ'D IN DMR, DISCHARGE NO. 102A, As of 9/1/07)																					
MONTH YEAR	NITROGEN, TOTAL (TKN+NO3+NH3)		NITROGEN, NH3		NITROGEN, NO3	PHOSPHORUS	POTASSIUM		CADMIUM	COPPER		LEAD	NICKEL	pH*		Mercury		Molybdenum		Selenium	Zinc
	mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg		mg/Kg	mg/Kg	Std. Units		mg/Kg		mg/Kg		mg/Kg	Std. Units
Sep-2023	40900		1320		61.50	5290	1980.00	<	1.80	129.0		7.10	7.50	12.5		0.37		12.10	<	5.50	383.00
Oct-2023	20700		1010	<	20.0	4,150	1,190	<	1.3	159.0		6.2	6.8	12.7		0.37		11.3	<	3.8	321.0
Nov-2023	28500		653		25.5	9,450	1,080	<	1.9	201.0		10.6	7.6	12.5		0.48		11.1	<	5.6	420.0
Dec-2023	19600		392	<	20.0	4,040	973	<	1.3	89.6		3.2	5.0	12.6	<	0.11		7.5	<	3.8	185.0
Jan-2024	22900		340	<	20.0	7,510	1,590	<	1.5	84.7	<	3.1	6.0	12.6	<	0.19		9.6	<	4.6	241.0
Feb-2024	27900		440	<	20.0	4,240	994	<	150	60.7	<	3.1	3.5	12.6	<	0.16		6.3	<	4.6	158.0
Mar-2024	32800		986		39.6	7,310	1,590	<	2.300	157.0		7.40	7.40	12.5		0.820		16.80	<	7.00	393.0
Apr-2024	61500		1400		46.1	12,800	1,760	<	2.10	171.0		8.5	8.20	12.2		0.46		15.0	<	6.30	367
May-2024	25700		901	<	20.0	3,780	1,590	<	1.80	118		5.7	6.20	12.5	<	0.200		11.6	<	5.3	290
Jun-2024	19700		1010		23.1	7,260	1,030	<	1.10	101.0		4.3	3.80	12.4		0.17		8.4	<	3.30	198.0
Jul-2024	64800		3350		41.5	3,360	2,290	<	2.500	285.0		11.2	9.00	12.3	<	0.27		20.6	<	7.50	586.0
Aug-2024	29300		1060		22.3	4,220	1,200	<	1.400	85.2		3.0	4.00	12.4		0.130		7.1	<	4.30	152
Maximum	64800		3350		61.5	12,800.0	2,290.0		150.0	285.0		11.2	9.0	12.7		0.82		20.6		7.5	586.0
Average	32858		1072		30.0	6,117.5	1,438.9		13.0	126.2		6.1	5.8	11.5		0.31		11.5		5.1	308

Notes: Numbers in bold indicate average of 2 sample analysis within same month. (*) Denotes value at Time=0 hours after lime addition.

Appendix C, Attachment 9.3

TCLP Results

(Section 2.D pg.12)

Appendix C, Attachment 10

Site Development Plan

Section 4.A of worksheet 4.0 pg. 13

Appendix C, Attachment 10

Item 4A, page 13 of the Sewage Sludge Technical Report 4.0

Site Development Plan

Description of Methods Used to Deposit Sludge in the Active/Proposed Sludge Unit

El Paso Water Utilities (EPWU) currently contracts the transportation and disposal of all its sewage sludge and water treatment residuals (sludge) generated from its wastewater treatment facilities and water treatment plants. **All EPWU generated sludge is currently disposed at a TCEQ-permitted and privately owned surface disposal site, Cerro Alto Monofill (Permit #WQ0004636-000)**. Through this application, EPWU seeks renewal of tis current permit to dispose of sludge at the McCombs Monofill (Surface Disposal Site) as a contingency disposal site in the event of an unforeseeable emergency (see attachment 10.1 "Disposal Site Map").

Previous evaluations of the McCombs Monofill indicate the availability of limited area for continued disposal of sludge in the north cell. Access to the disposal site will remain through the gated paved road off McCombs Street, approximately 975-feet north of the northern right-of-way line of Farm-to-Market Road 2529 (Stan Roberts Sr. Drive). The average solids disposed to the disposal site (Cerro Alto Monofill) from John T. Hickerson WRF is about 6,423 yd^3 of the year 2023.

McCombs Monofill is located in an alluvial system indicating no nearby fault lines. The site is protected from floods through a perimeter berm system located within the property boundary. The perimeter boundary of the Monofill is fenced and gated to prevent access by unauthorized personnel or by animals. No crops are grown on site. Sludge that has been anaerobically digested is mixed with bulking material at a 1:3 sludge-to-bulk ratio. Lime stabilized sludge is mixed with bulking material at a 1:1 sludge-to-bulk ratio, deposited on an open trench (trench disposal method), and covered with soil at the end of the day. Bulking material may be added to lime-stabilized sludge to increase its bearing capacity and to reduce the amount of the daily soil cover. Air dried sludge requires no special mixing and may be used as bulking. Native sandy soil from the southeastern end of the Monofill is used as bulk for incorporation with sludge. Sludge is mixed with bulking material in piles approximately 8-feet high. Availability of native soil is minimal and resuming sludge disposal activities at the Monofill will require importation of soil or other bulking material with physical characteristics suitable for this activity.

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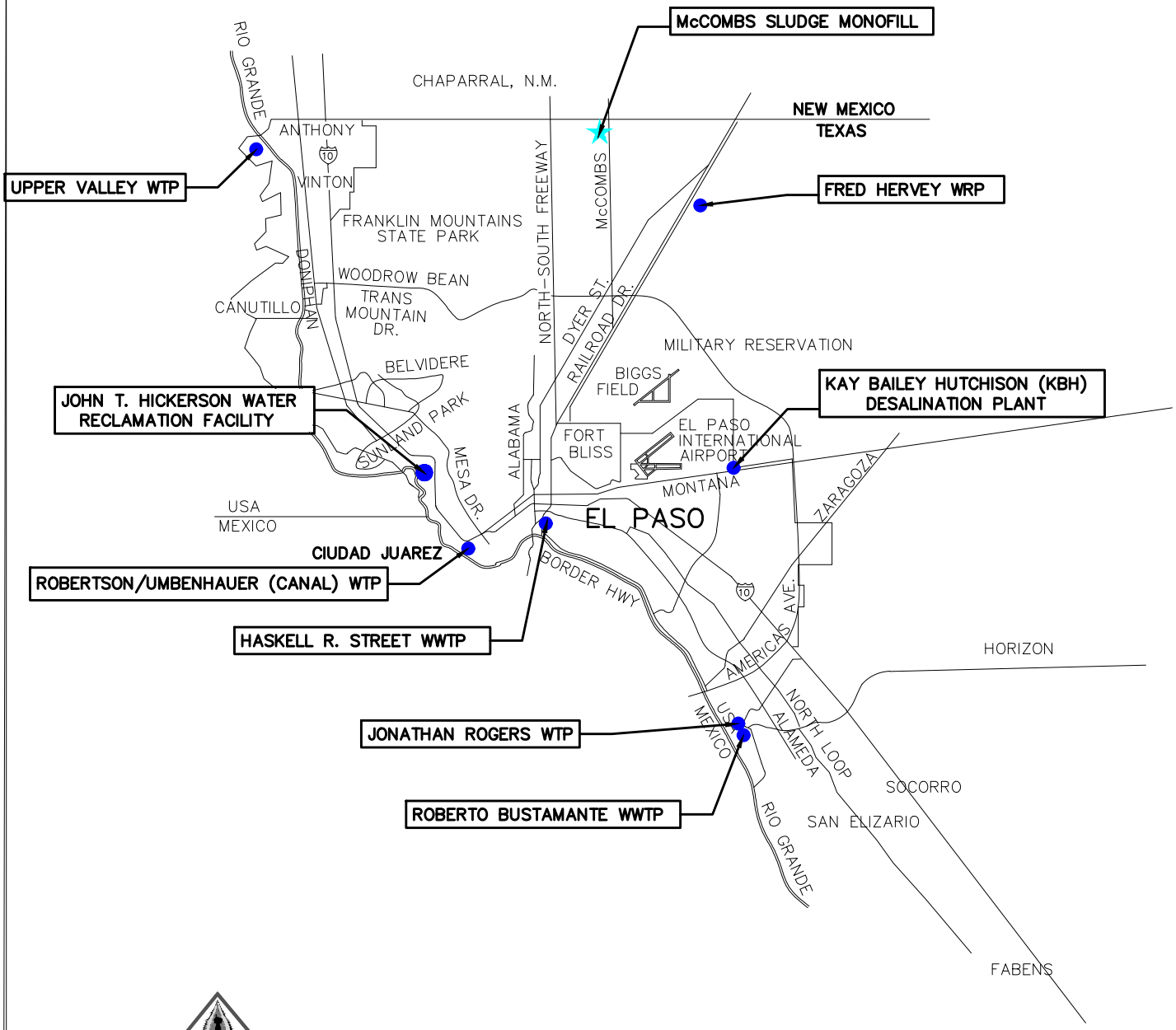
Appendix C, Attachment 10.1

Disposal Site Plan

Section 4.A of worksheet 4.0 pg. 13



H2 Terra
ENGINEERING. SURVEYING. SOLUTIONS.
TBPE FIRM No. F-2103 TBPLS FIRM No. 10060700

el paso WATER

EL PASO WATER UTILITIES SURFACE DISPOSAL SITE MAP

APPENDIX C
ATTACHMENT
10.1

Appendix C, Attachment 11

Plan View and Cross-Section of Disposal Unit

Section 4.B of worksheet 4.0 pg. 13

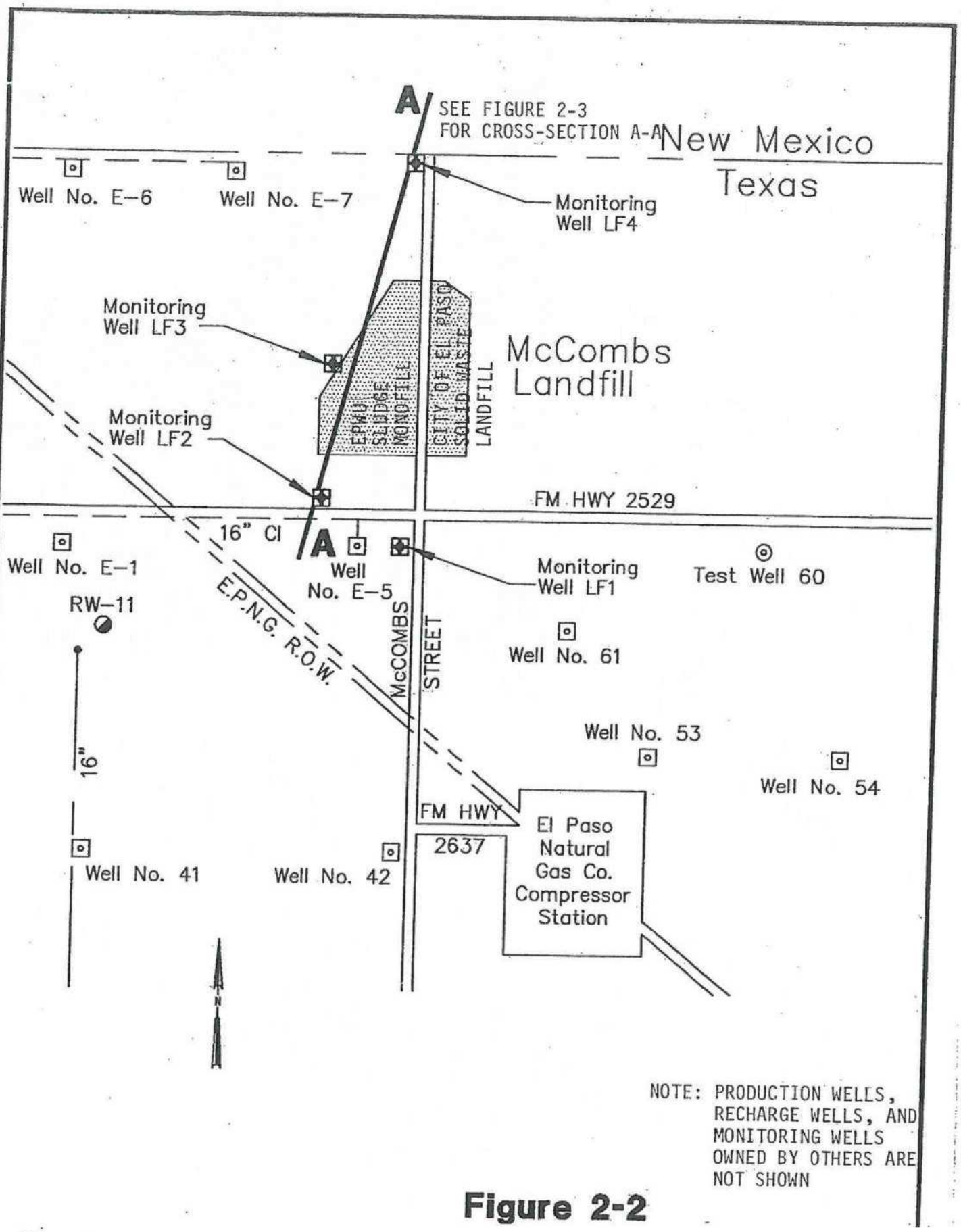


Figure 2-2

EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD

34278F32.DWG

Appendix C. Attachment 11

Plan View and Cross Section of the Disposal Unit
(Section 4B of Worksheet 4 pg. 13)

Appendix C. Attachment 11

Plan View and Cross Section of the Disposal Unit
(Section 4B of Worksheet 4 pg. 13)

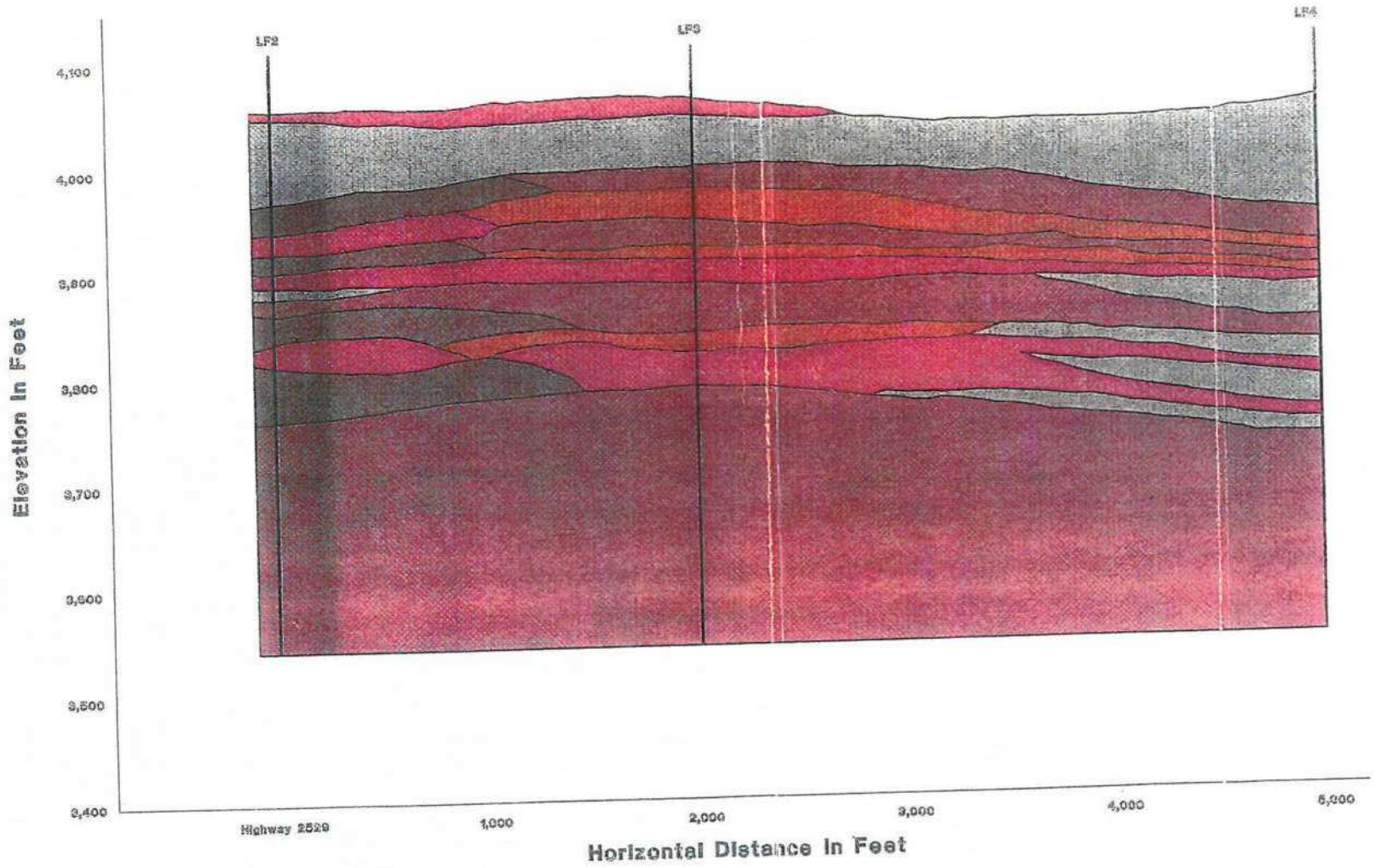


Figure 2-3
A-A Monofill
Geologic Cross-Section

EL PASO PUBLIC WATER UTILITIES SERVICE BOARD

CH2MHILL

Appendix C, Attachment 12

Source and Physical Properties of Bulking Materials

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 12

Section 4.B., page 14 of the Sewage Sludge Technical Report 4.0

Source and Physical Properties of the Soil and/or Other Media for Sludge Bulking

Native sandy soil from Monofil's southeastern limits is available for immediate short-term use. Continued use of the Monofill for sludge disposal will require importation of suitable soil with physical characteristics appropriate for this activity. Specific sources of foreign bulking material will be determined later, upon need of additional bulking media.

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Appendix C, Attachment 13

Locations of Stockpiles of Media and Area

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 13

Item 4.B., page 14 of the Sewage Sludge Technical Report 4.0

Locations of Stockpiles of Media and the Area for Sludge Loading and Unloading

Native soil is available within the southeastern portion of the property, formerly a sand-and-gravel quarry. Sludge loading occurs at each wastewater treatment, Haskell R. Street WTP, Roberto R. Bustamante WTP, John T. Hickerson WRTP, Fred Hervey WRTF, and the Upper Valley WTP. The loading is via silos or drying beds, as applicable for each treatment plant. The collection trucks drive through and sludge is released into the container. Water treatment residuals loading from water treatment facilities is performed through loading stockpiled residuals and depositing them into belly dumps and transported to the disposal site. Sewage sludge and water treatment residuals will be deposited into the disposal (unloading) area of McCombs Monofill through ramps and other access points within the Monofill.

Continued use of the Monofill for sludge disposal will require importation of suitable soil with physical characteristics appropriate for this activity. Specific sources of foreign bulking material will be determined later, upon need of additional bulking media.

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Appendix C, Attachment 14

Operation Procedures

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 14

Item 4.B., page 14 of the Sewage Sludge Technical Report 4.0

Operation Procedures Detailing Mixing, Ratio of Mixture, Handling of the Mixture, Placement of the Mixture, and Daily Cover.

Sludge is mixed with native sandy soil, or with imported soil with suitable chemical and/or physical characteristics for this activity, at a sludge-to-sand ratio of 1:3 and spread within the active unit. A daily soil cover is placed within at the end of each operating day.

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Appendix C, Attachment 15

Copy of Closure Plan

Section 4.B of worksheet 4.0 pg. 14

El Paso Water Utilities
Public Service Board
City of El Paso, Texas

SLUDGE - ONLY LANDFILL DEVELOPMENT, CLOSURE, AND OPERATIONAL PROCEDURES PLAN

SEPTEMBER, 1988

CARDENAS - SALCEDO & ASSOCIATES, INC.
CONSULTING ENGINEERS
701 N. ST. VRAIN • EL PASO

Appendix C, Attachment 15

Copy of Closure Plan
(Section 4.B p. 14)

EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD

CITY OF EL PASO, TEXAS

SLUDGE-ONLY LANDFILL SITE DEVELOPMENT, CLOSURE, AND OPERATIONAL PROCEDURES PLAN

SEPTEMBER, 1988

CARDENAS-SALCEDO AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · CONSULTANTS
701 N. ST. VRAIN
EL PASO, TEXAS 79902

TABLE OF CONTENTS

EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD

SLUDGE-ONLY LANDFILL SITE DEVELOPMENT, CLOSURE, AND OPERATIONAL PROCEDURES PLAN

I. GENERAL

The purpose of the following operational procedures is to provide guidance to site management and operating personnel for the day-to-day operations of the proposed facility. These procedures will also provide necessary information to assist the facility manager in implementing the engineering site development and closure plans attached to this document.

The site will be developed in two phases. Phase I contains approximately 49.5 acres located in the northern half of the site, and will be developed first. Once the initial phase is substantially completed, landfilling operations will proceed south into Phase II. Phase II contains approximately 49.2 acres. In the future, the facility may be extended further south to include the area presently leased by El Paso Sand Products, Inc.

Due to the low rainfall and high evaporation rates in this region, the site will be developed without a liner. The key items for the development of the site will therefore be: site access, site preparation, drainage control, security controls, utility services, and maintenance.

II. PERSONNEL AND EQUIPMENT REQUIREMENTS

The recommended operating equipment is listed below. The Public Service Board should evaluate its operating needs and provide the minimum required equipment.

Scraper	-	this will be used for area grading, and application of cover;
Track Dozer	-	this will be used for mounding, mixing and layering, and covering;
Wheel Loader	-	this will be used for mounding and hauling; and
Water Wagon	-	this will be used for dust control on roads and working areas.

The scraper and track dozer will be used for construction of roadways within the landfill site during the development phases.

Other back-up equipment should be available through the Public Service Board. The four minimum types of machinery listed above will be operable at all times.

The number of personnel at the proposed site is anticipated to be between 2 and 4. This will include equipment operators and maintenance personnel. The equipment operators will act as supervisors in directing the sludge unloading operations.

All personnel assigned to the landfill will be trained in safety procedures for working around large equipment, handling of special wastes, vector and dust control procedures, first-aid emergency procedures, and general landfill safety procedures.

III. ACCESS

Permanent access to the site will be via a paved road located at the main entrance to the facility, off from McCombs Road. The paved road will handle incoming and outgoing traffic on two 12-feet lanes. Interim access roads will provide access of sludge hauling vehicles to the active landfill areas. The 24-feet wide interim roads will handle two-way traffic. A maintenance road should be constructed around the perimeter of the site for access to drainage appurtenances and completed landfill slopes. The width of this road will be at least 15-feet. This road should be constructed prior to closure of the landfill.

IV. MAINTENANCE BUILDING

A metal building will be installed near the entrance to the facility for storage of equipment and maintenance work. The structure will be seated on a 60-feet x 60-feet graded pad and should provide adequate vertical clearance for the tallest equipment on site.

V. SITE SECURITY AND TRAFFIC CONTROL

The only access to the site will be via the proposed paved entrance road. This paved road will handle all incoming and outgoing traffic to the site. The facility will be enclosed by a 4-feet high barbed wire fence along the north and west site boundaries, a 6-feet high chain-link fence along the south boundary (common boundary with the El Paso Sand Products, Inc.

site), and a 7-feet high chain-link fence with barbed wire along the east boundary (common boundary with the McCombs Road right-of-way line). An access gate will be located at the entrance to the landfill. Warning signs to deter trespassers will be posted along the fence.

The operating hours of the landfill will be as established by the El Paso Water Utilities. At times when the landfill is closed, the access gate will remain locked. The maintenance building and entrance areas should be lighted after sunset. Speed limit and traffic signs should be placed at several points along the main access and interim roads before reaching the active areas.

VI. SITE IMPROVEMENTS

The development of the initial landfill phase will require minimal site preparation. This is due to the fact that the initial construction of the landfill will take place in the northern area in the deepest pits left as a result of the past sand and gravel operations. However, site improvements will have to begin before any loads of sludge are received at the facility. This will be done by a Contractor to the Public Service Board.

VII. EARTHWORK

Due to the large amounts of earthwork required to prepare areas, and to minimize the amount of excavation, stockpiling and hauling of materials for cover, earthwork and landfilling operations will be concurrent. Borrow material will be available

for bulking (if required) and daily, intermediate, and final cover from site preparation and removal of perimeter earthen berms.

Temporary slopes in the pit will be no steeper than 2 (horizontal) to 1 (vertical). Temporary ramps will be required as the landfilling operations proceed. For loaded vehicles, uphill grades will be less than 7% and downhill grades less than 10%.

VIII. LANDFILLING OPERATIONS

The landfill facility will be developed by the 1) area fill mound method and/or the 2) area fill layer method. The sludge will be placed over existing or prepared ground surfaces inside the cell.

Dried or dewatered sludges with sufficient bearing capacity will be placed in area fill mounds. No bulking should be necessary for these sludges. Cover soil will be applied atop each lift of mounds. If bulking is necessary to improve the bearing capacity of the sludge, area fill layers will be employed. The sludge will be mixed with soil and layered in one operation. Sludge/soil layers will be separated by interim applications of clean soil cover. Stockpiling of special wastes such as grit, skimmings, and screenings will not be allowed. These wastes will be placed in separate areas where they can be processed properly. Cover soils will be obtained from cell floor preparation, existing material stockpiles, natural hills within

the pit, and existing earthen berms along the perimeter of the site. Phases I and II will be completed to the elevations shown on the site closure plan. A final cover will be applied to the landfilled area.

The following steps will be followed for development of the landfill facility.

A. Phase I

A.1 Landfilling will commence in the deepest sections in the pit utilizing area fill methods. Preparation of the cell floor and walls in Phase I will be concurrent with landfilling operations.

A.2 Once the low areas have been filled, the landfill operations will move to the north area of the cell and proceed in a south bound direction.

A.3 Borrow materials will be obtained from Phase I excavation and may extend into preparation of the Phase II cells.

A.4 Sludges will be unloaded in the active fill areas and will be placed against the pit walls which can provide containment on one or more sides. The wheel loader will be used to push and pile the sludges into mounds. The height of the individual lifts will not exceed 8 feet. Once a lift is completed, a 3-feet (minimum) interim cover of clean soil will be applied to safely support on-site operating equipment. The number of lifts

applied to any one area will not exceed 3. If bulking is required to improve the bearing capacity of the sludge, a soil stockpile will be kept nearby for the track dozer to mix and layer the sludge in one operation. The recommended bulking ratio will range from 0.5 to 2 parts soil to 1 part sludge. This ratio will vary depending on the stability of the resulting mixture. The sludge/soil mixture will be spread evenly in 3-feet thick layers. A 12-inch clean soil cover will be applied over each layer. The thickness of the interim cover may need to be higher depending on the bearing capacity of the fill.

A.5 Special wastes such as grit, skimmings, and screenings will be placed in specially designated areas. As the high organic content of these wastes would otherwise become a nuisance.

A.6 To minimize the length of ramps within the active fill areas, deposition of sludge will occur from lower to higher invert cell elevations.

A.7 Partially completed areas of the landfill will not be open for traffic. These areas will be regularly inspected for cracks, fissures, and erosion, and remedial measures undertaken.

A.8 Once Phase I is completed to the site closure plan elevations, landfilling will proceed to Phase II.

B. Phase II:

B.1 Site preparation will be concurrent with the final stages of development and the completion of Phase I. Tasks will include grading of the cell floor and walls, construction of interim access roads to new active areas, and construction of run-off/run-on control earthen berms;

B.2 Landfill development will commence along the north perimeter of Phase II - against the completed surface of Phase I. Landfilling will proceed in a south bound direction. As an alternative to the operator landfilling may start along the west wall and proceed in an east bound direction, or may continue to the south.

B.3 Borrow materials will be obtained from Phase II excavation and may extend into leveling of earthen berms along the perimeter of the site.

B.4 Steps A.4 thru A.7 above will be implemented.

B.5 Once Phase II is completed, the site will be graded according to the closure plan requirements.

IX. WET WEATHER OPERATION

The paved access road at the entrance to the facility should not present an access problem during inclement weather. The perimeter maintenance and interim access roads will be topped and

compacted with caliche material. In the event these measures do not prove adequate during wet weather periods, additional cover material shall be placed on the surface.

X. DRAINAGE CONTROLS

The landfill facility is designed to divert surface flows around its perimeter, contain its run-off during development, and maintain the natural drainage courses after development. The perimeter ditches along FM 2529 and McCombs Road are designed for a 25-year storm using the methods in the Texas State Department of Highways and Public Transportation's Bridge Division Hydraulic Manual.

Rainfall over active areas of the landfill will be contained by earthen berms. The cell floor will be sloped away from the active fill areas to prevent ponding of runoff at the working face. Standing water which had contact with the waste will be collected and transported to the Fred Hervey Reclamation Plant located about 4 miles south for treatment.

During the life of the facility and after completion the site will be protected from off-site runoff by a perimeter ditch.

XI. EMERGENCY SERVICES

In the event that fire fighting services are needed, the El Paso Fire Department may be contacted by dialing 911.

If an emergency at the site requires the service of an ambulance company, the telephone number 911 may also be used.

When emergency vehicles are called to the site during operating hours, special provisions shall be made by the site personnel to insure rapid ingress and egress of these vehicles. This may include temporarily detouring of landfill traffic.

For minor emergencies, first aid equipment will be kept at the site and personnel will be trained in elementary first aid care services.

XII. UTILITIES

Appropriate utility facilities should be maintained at the site.

XIII. CLOSURE

The landfill will be graded in accordance to the closure plan for the facility. At this time there is no definite use proposed for the completed site. It is desirable that the site be developed into a park or other land use which would not be affected by the anticipated landfill settlement conditions.

The following procedures will be followed for closure of each landfill phase:

1. No sludge will be left exposed. Lifts will be covered with a final layer of clean soils. The final cover will be a minimum of 3 to 5-feet thick, depending on the stability of the landfill.
2. The cover materials will be obtained from site preparation excavation or existing earthen berms around the perimeter of the site.

3. After each phase is completed, a minimum period of one year will be allowed for settlement. As necessary, the completed areas will be regraded and any depressions and/or cracks will be filled.

4. After one year from completion of the final cell, the entire landfill facility will be regraded as necessary to meet cover and drainage requirements.

5. The final slopes in the landfill will range from 2% to 5%.

6. Temporary landfill slopes for completed phases adjoining active areas and permanent slopes for the perimeter earthen ditch (parallel to FM 2529 and McCombs Rd.) will be no steeper than 4 (horizontal) to 1 (vertical).

XIV. SPILLAGE, DUST, VECTORS, ODORS, AND AESTHETICS

Enroute and on-site spillage of sludge will be cleaned up as soon as possible. Haul vehicles enroute to the disposal site will report even small spills to the operation supervisor, so emergency clean-up crews can take prompt action. On-site spills will be controlled as much as possible.

Dust caused by movement of haul vehicles will be minimized by provisions such as interim roads with compacted caliche surfaces and water applications.

Vectors likely to develop at the proposed facility will be flies and mosquitos. The proper application of cover material is the best deterrent to vector problems. Any cracks or deterioration of completed landfill areas will be repaired immediately. Throughout the active life of the facility and during the post-closure period as well, the PSB will coordinate a vector control program with the City of El Paso departments.

Odors at a sludge landfill facility alike vectors, can be reduced by proper and frequent cover applications. To help minimize odor problems no storage of sludge will be allowed at the facility prior to final disposal. In addition, stockpiling of special wastes - with high organic content - such as grit, skimmings and screenings will not be allowed.

To make the sludge landfill acceptable, every attempt will be made to keep the site compatible with its surroundings. The site is presently surrounded by high earthen berms along FM 2529 and McCombs Rd. acting as a visual barrier. Unloading of sludge will be confined to designated active areas. The size of the working areas will be kept as small as an efficient operation will allow.

XV. TEXAS WATER COMMISSION - PERMIT

Attached is a copy of the permit issued by the Texas Water Commission. This permit amends the Haskell Street Treatment Plant permit to allow for sludge disposal at the landfill. The permit contains specific requirements for landfilling operations and monitoring.

PERMIT NO. 10408-04
(corresponds to
NPDES PERMIT NO. TX0026751)

This permit supersedes and replaces Permit No. 10408-04 approved June 27, 1983.

TEXAS WATER COMMISSION
Stephen F. Austin State Office Building
1700 N. Congress Ave.
Austin, Texas 78711

PERMIT TO DISPOSE OF WASTES
under provisions of Chapter 26
of the Texas Water Code

El Paso Water Utilities Public Service Board

whose mailing address is

320 South Campbell
El Paso, Texas 79901

is authorized to treat and dispose of wastes from the Haskell Street Plant

located on Delta Street approximately 0.5 mile south of the Franklin Canal and 0.5 mile north of the Rio Grande in the City of El Paso, El Paso County, Texas

to the Rio Grande in Segment No. 2308 of the Rio Grande Basin

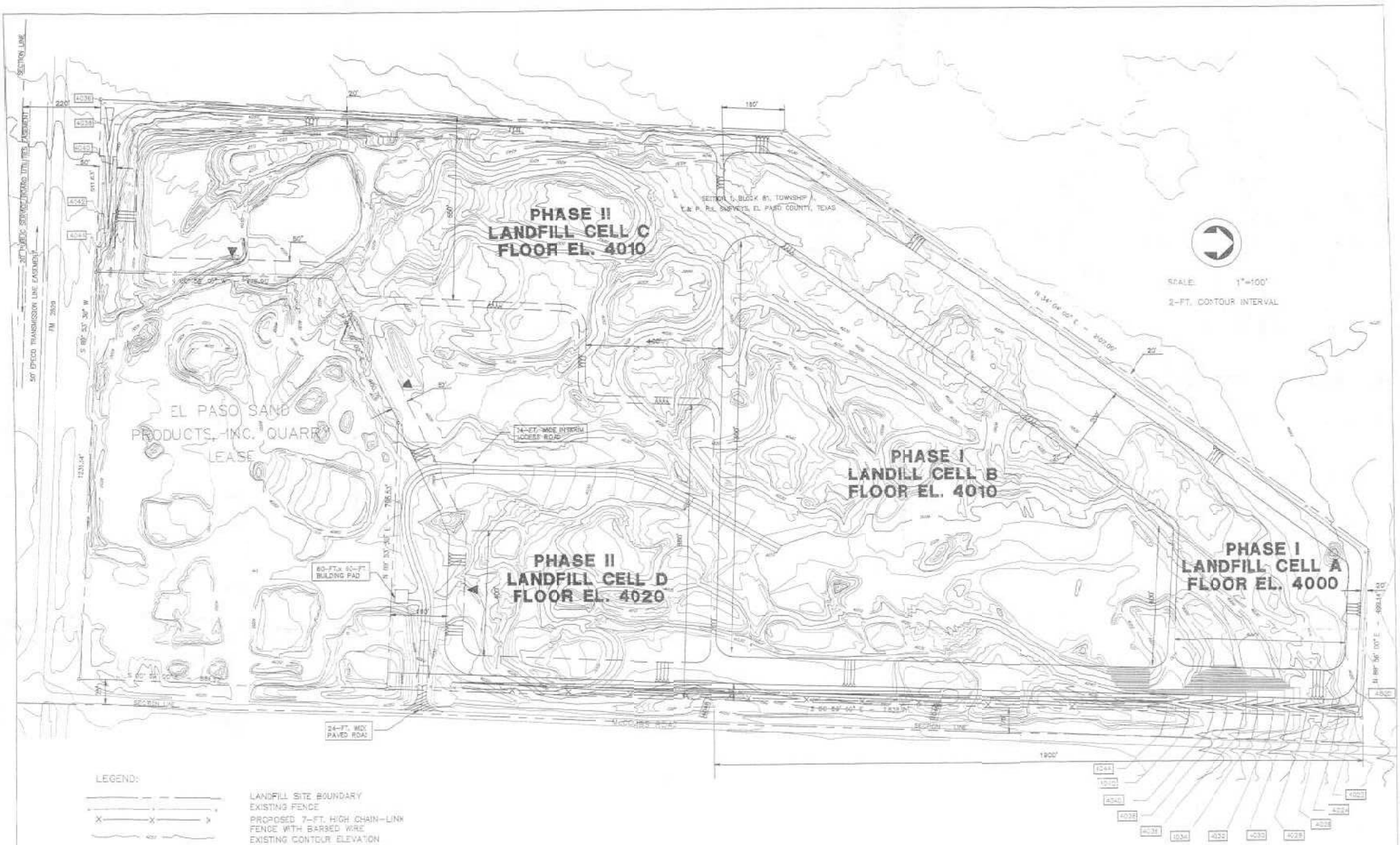
only in accordance with effluent limitations, monitoring requirements and other conditions set forth herein, as well as the rules of the Texas Water Commission ("Commission"), the laws of the State of Texas, and other orders of the Commission. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the herein described discharge route. This includes property belonging to but not limited 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 herein described discharge route.

This permit and the authorization contained herein shall expire at midnight, five years after the date of Commission approval.

APPROVED, ISSUED AND EFFECTIVE this 28th day of June 19 88.

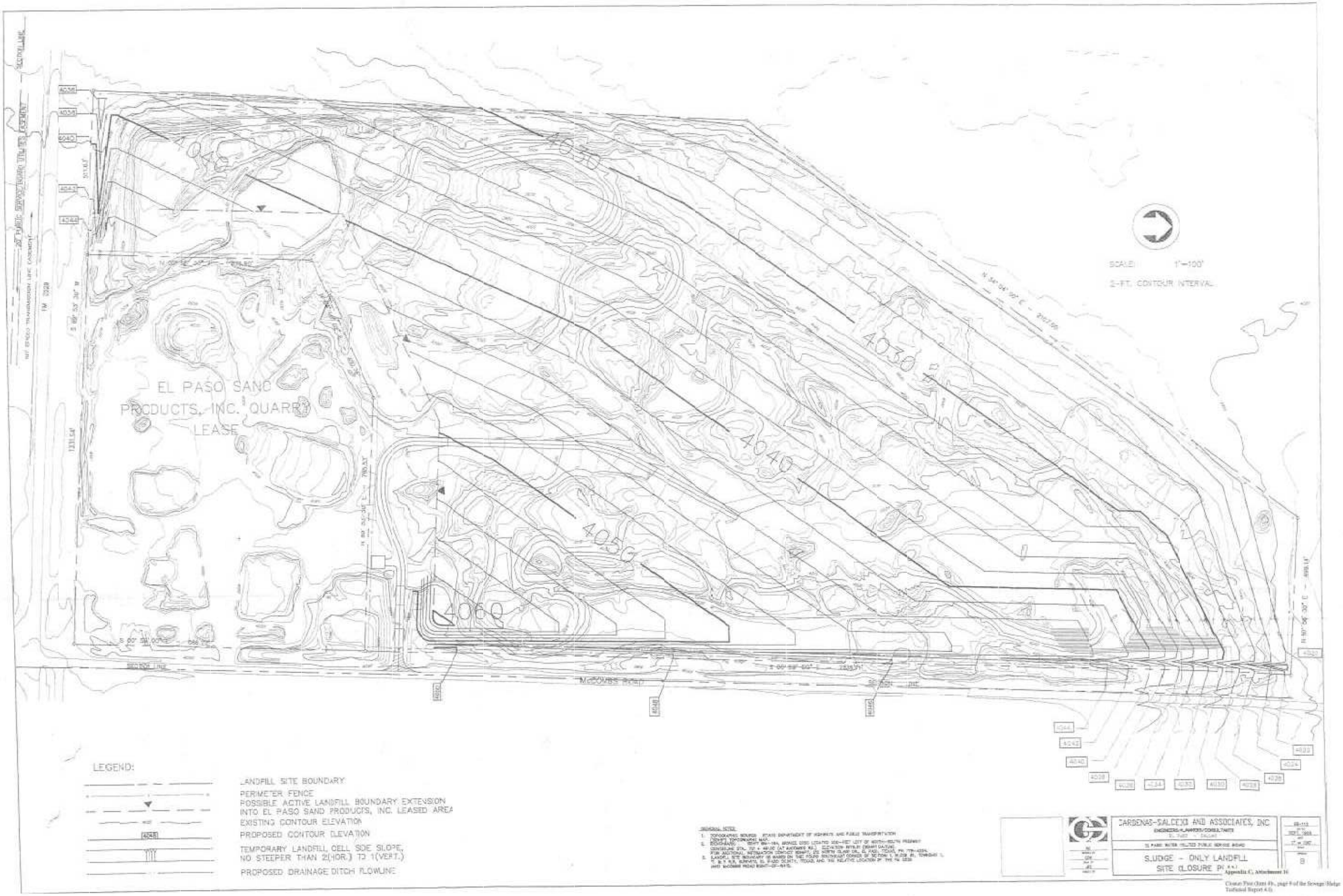
ATTEST: Karen A. Phillips

Paul Hopkins
For the Commission



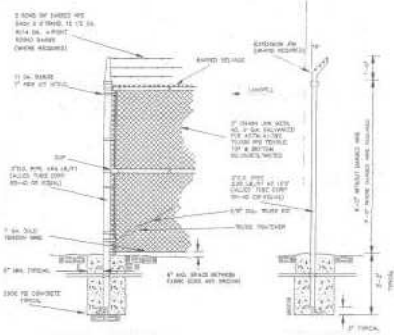
Appendix C, Attachment 16

Closure Plan (Item 4.b., page 9 of the Sewage Sludge Technical Report 4.0)



Appendix C, Attachment 16

Closure Plan (Item 4b, page 8 of the Sewage Sludge Technical Report 4.0)



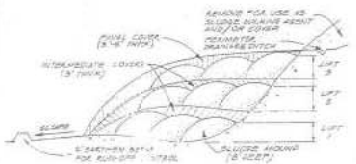
CORNER & END POST

LINE POST

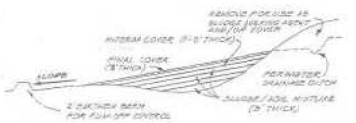
GATE POST

CHAIN LINK FENCE DETAILS

WARNING SIGN DETAIL

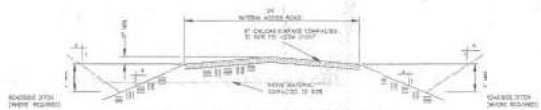


MOUND OPERATION

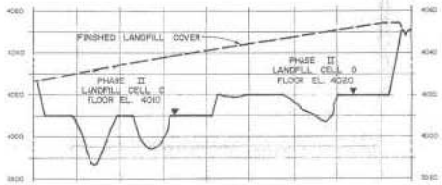


LAYER OPERATION

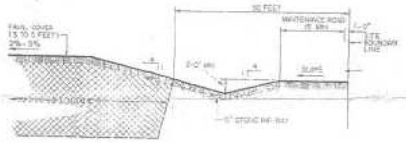
TYPICAL AREA FILL CROSS-SECTIONS



TYPICAL INTERIM ACCESS ROAD CROSS SECTION

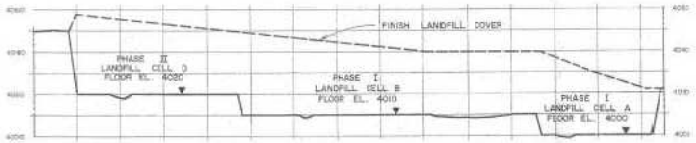


E-W CROSS SECTION



SECTION

TYPICAL PAVED ACCESS ROAD CROSS SECTION



N-S CROSS SECTION

CARDENAS-SALCEDO AND ASSOCIATES, INC.

TYPICAL DETAILS

C

Appendix C, Attachment 31

Current Plat (Item 4 b., page 8 of the Sewage Budget Technical Report #10).

Appendix C, Attachment 16

Copy of Deed Record

Section 4.B of worksheet 4.0 pg. 14

7/29/53

61241

THE STATE OF TEXAS,)
COUNTY OF EL PASO.) WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That I, LAZAR KOPILOWITZ, joined by my wife, LILLIAN KOPILOWITZ, of El Paso County, Texas, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations, to me in hand paid by THE CITY OF EL PASO, a Municipal corporation, receipt of which is hereby acknowledged and confessed, have Granted, Sold and Conveyed, and by these presents do Grant, Sell and Convey unto the said THE CITY OF EL PASO, of the County of El Paso, State of Texas, subject to the exceptions and reservations hereinafter stated, all those certain tracts or parcels of land, situated in El Paso County, Texas, and described as follows, to-wit:

All of Sections One (1), Two (2), Twelve (12), Thirteen (13) and Fourteen (14), containing 640 acres each, more or less, in Block Eighty-One (81), Township One (1), Texas & Pacific Railway Company Surveys, El Paso County, Texas.

But it is expressly stipulated and agreed that the Grantors herein except and reserve from this conveyance and hereby expressly except and reserve all oil, gas and other minerals of every nature in and under the above described land. This is not a reservation of the water under said land, except that free use of sufficient water is excepted and reserved for development of the oil, gas and other minerals under said land but not elsewhere. But it is agreed that Grantors, their heirs or assignees, will not drill or mine minerals within 150 feet of any established water well of the City of El Paso, Texas, unless written consent is first obtained from the Municipal Water and Sewerage System of the City of El Paso, Texas, authorizing drilling or mining closer to such well. Grantors, their heirs or assigns, shall give written notice to Grantee, its successors or assigns, fourteen (14) days in advance of their intention to drill wells, giving the location and when such drilling is to commence.

This conveyance is made subject to all property or rights vested in the State of Texas, in El Paso County, Texas, in El Paso Natural Gas Co., or in Salt Lake Pipe Line Company, by quitclaim deed, right-of-way deed, or right-of-way easements now of record in the office of the County Clerk of El Paso County, Texas.

This conveyance is being made as a resu
condemnation proceeding filed by the C

Appendix C, Attachment 16

Copy of Deed
Section 4.B p. 14

WARRANTY DEED

FROM:

LAZAR KOPILOWITZ, joined by his wife, LILLIAN KOPILOWITZ,

TO:

THE CITY OF EL PASO, a Municipal Corporation.

FILED FOR RECORD IN MY OFFICE

1955 AUG 3 AM 10 46

RAYMOND L. TELLES, JR.
COUNTY CLERK, EL PASO COUNTY, TEXAS

By [illegible] Deputy

POTASH, CAMERON, POTASH & BERNAT
ATTORNEYS AT LAW
SUITE 505 CAPLES BUILDING
EL PASO, TEXAS

CERTIFICATE OF RECORD:

The State of Texas, }
County of El Paso. }

I, Raymond L. Telles, Jr., County Clerk in and for said County, do hereby certify that the foregoing instrument of writing with its certificate of authentication, was filed for record in my office, on the 3 day of Aug. A. D. 1955 at 10:46 O'clock A. M and duly recorded the 3 day of Aug. A. D. 1955 at 9 O'clock A. M. in the Deed Records of said County, in volume 1242 on page 231

Witness my hand and the seal of the County Court of said county of office in El Paso, Texas, the day and year last above written.

Raymond L. Telles, Jr., County Clerk.

By [illegible] Deputy.

(SEAL)

Appendix C, Attachment 17

Source and Physical Properties of the Soil and/or Other Media for Sludge Bulking
Section 4.B p. 14

in the El Paso County Court at Law, El Paso County, Texas, being Suit No. 16526, on July 31, 1954 for the taking of the land for the improvement and enlargement of the City's water works system.

TO HAVE AND TO HOLD the above described premises, together with all and singular the rights and appurtenances thereto in anywise belonging unto the said THE CITY OF EL PASO, its successors and assigns forever, subject to all of the exceptions and reservations hereinabove stated; and we do hereby bind ourselves, our heirs, executors and administrators, to warrant and forever defend all and singular the said premises unto the said THE CITY OF EL PASO, its successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, subject to all of the exceptions and reservations hereinabove stated,

WITNESS OUR HANDS, at El Paso, Texas, this 29 day of July, 1955.

Lazar Kopilowitz
Lazar Kopilowitz

Lillian Kopilowitz
Lillian Kopilowitz

THE STATE OF TEXAS,)
COUNTY OF EL PASO.)

BEFORE ME, the undersigned authority, on this day personally appeared LAZAR KOPILOWITZ and wife, LILLIAN KOPILOWITZ, both known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they each executed the same for the purposes and consideration therein expressed, and the said LILLIAN KOPILOWITZ, wife of the said LAZAR KOPILOWITZ, having been examined by me privily and apart from her husband, and having the same fully explained to her, she, the said LILLIAN KOPILOWITZ acknowledged such instrument to be her act and deed, and she declared that she had willingly signed the same for the purposes and consideration therein expressed, and that she did not wish to retract it.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 29 day of July, 1955.

JULIAN BERNAT
Notary Public in and for
El Paso County, Texas

Julian Bernat
Notary Public in and for
El Paso County, Texas.

Deed Book 1242 page 231

61241

THE STATE OF TEXAS,
COUNTY OF EL PASO. } WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That I, LAZAR KOPILOWITZ, joined by my wife, LILLIAN KOPILOWITZ, of El Paso County, Texas, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations, to me in hand paid by THE CITY OF EL PASO, a Municipal corporation, receipt of which is hereby acknowledged and confessed, have Granted, Sold and Conveyed, and by these presents do Grant, Sell and Convey unto the said THE CITY OF EL PASO, of the County of El Paso, State of Texas, subject to the exceptions and reservations hereinafter stated, all those certain tracts or parcels of land, situated in El Paso County, Texas, and described as follows, to-wit:

All of Sections One (1), Two (2), Twelve (12), Thirteen (13) and Fourteen (14), containing 640 acres each, more or less, in Block Eighty-One (81), Township One (1), Texas & Pacific Railway Company Surveys, El Paso County, Texas.

But it is expressly stipulated and agreed that the Grantors herein except and reserve from this conveyance and hereby expressly except and reserve all oil, gas and other minerals of every nature in and under the above described land. This is not a reservation of the water under said land, except that free use of sufficient water is excepted and reserved for development of the oil, gas and other minerals under said land but not elsewhere. But it is agreed that Grantors, their heirs or assignees, will not drill or mine minerals within 150 feet of any established water well of the City of El Paso, Texas, unless written consent is first obtained from the Municipal Water and Sewerage System of the City of El Paso, Texas, authorizing drilling or mining closer to such well. Grantors, their heirs or assigns, shall give written notice to Grantee, its successors or assigns, fourteen (14) days in advance of their intention to drill wells, giving the location and when such drilling is to commence.

This conveyance is made subject to all property or rights vested in the State of Texas, in El Paso County, Texas, in El Paso Natural Gas Co., or in Salt Lake Pipe Line Company, by quitclaim deed, right-of-way deed, or right-of-way easements now of record in the office of the County Clerk of El Paso County, Texas.

This conveyance is being made as a result of a condemnation proceeding filed by the City of El Paso

Appendix C, Attachment 17

Source and Physical Properties of the Soil and/or Other Media for Sludge Bulking
Section 4.B p. 14

Deed Book 1242 page 232

in the El Paso County Court at Law, El Paso County, Texas, being Suit No. 16526, on July 31, 1954 for the taking of the land for the improvement and enlargement of the City's water works system.

TO HAVE AND TO HOLD the above described premises, together with all and singular the rights and appurtenances thereto in anywise belonging unto the said THE CITY OF EL PASO, its successors and assigns forever, subject to all of the exceptions and reservations hereinabove stated; and we do hereby bind ourselves, our heirs, executors and administrators, to warrant and forever defend all and singular the said premises unto the said THE CITY OF EL PASO, its successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, subject to all of the exceptions and reservations hereinabove stated.

WITNESS OUR HANDS, at El Paso, Texas, this 29 day of July, 1955.

Lazar Kopilowitz
Lazar Kopilowitz

Lillian Kopilowitz
Lillian Kopilowitz

THE STATE OF TEXAS,
COUNTY OF EL PASO.

BEFORE ME, the undersigned authority, on this day personally appeared LAZAR KOPILOWITZ and wife, LILLIAN KOPILOWITZ, both known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they each executed the same for the purposes and consideration therein expressed, and the said LILLIAN KOPILOWITZ, wife of the said LAZAR KOPILOWITZ, having been examined by me privily and apart from her husband, and having the same fully explained to her, she, the said LILLIAN KOPILOWITZ acknowledged such instrument to be her act and deed, and she declared that she had willingly signed the same for the purposes and consideration therein expressed, and that she did not wish to retract it.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 29 day of July, 1955.

JULIAN BERNAT
Notary Public in and for
El Paso County, Texas

Julian Bernat
Notary Public in and for
El Paso County, Texas.

-2-

Appendix C, Attachment 17

Source and Physical Properties of the Soil and/or Other Media for Sludge Bulking
Section 4.B p. 14

Deed Book 1242 page 23[illegible]

61241

WARRANTY DEED

FROM: LAZAR KOPILOWITZ, joined by his wife, LILLIAN KOPILOWITZ,

TO: THE CITY OF EL PASO, a Municipal Corporation.

FILED FOR RECORD IN MY OFFICE

[illegible] AUG 3 AM 10 46

RAYMOND L. TELLES, JR.
[illegible]

POTASH, CAMERON, POTASH & BERNAT
ATTORNEYS AT LAW
SUITE 805 CAPLES BUILDING
EL PASO, TEXAS

A46—WARRANTY DEED—With Single, Joint and Wife's Separate Acknowledgment — Martin Stationery Co. Dallas

THE STATE OF TEXAS, 61271
COUNTY OF EL PASO

Know All Men By These Presents:

That we, RAY D. STACY, and wife, MARY STACY, ...

of the County of . . .KAY, . . . State of . . OKLAHOMA. . . . for and in consideration of the sum of

TEN . . . . ($10.00) DOLLARS. and other valuable consideration,

to . . . us . . in hand paid by . . . . . . FAYE H. KISSEL, a feme sole. . the receipt of all of which is acknowledged and confessed,

have Granted, Sold and Conveyed, and by these presents do Grant, Sell and Convey unto the said . . . . FAYE H. KISSEL, ...

of the County of . . EL PASO . , State of . . . TEXAS, . . all that certain

Lot, tract or parcel of land, situate, lying and being in El Paso County, Texas, and particularly described as follows:

FIRST TRACT:
Lot Number Ten(10) in Block Number Three(3) of the CLARDY-FOX SUBDIVISION, in El Paso County, Texas:

SECOND TRACT:
Lots Six(6) and Seven(7) of the WILKINS SUB-DIVISION of the Elijah Bennett Survey No. 12, in El Paso County, Texas, as per Plat of said subdivision made by J. W. Carter County Surveyor of El Paso County, Texas, June 20, 1931 and dedicated by W. C. Wilkins, and recorded in Book 374 front, Deed Records of El Paso County, Texas, which is here referred to for all purposes:

THIRD TRACT:
A rectangular shaped tract of land fronting Highway 62, and described as Tract [illegible] El Paso County, Texas, containing approximately 9100 square feet, and being the same property described in a deed from Jim L. Gamble to

Appendix C, Attachment 17

Method of Controlling Infiltration of Groundwater and Surface Water

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 17

Item 4.B., page 14 of the Sewage Sludge Technical Report 4.0

Description of Method of Controlling Infiltration of Groundwater and Surface Water from Entering the Site

Surface water is prevented from entering the site through a perimeter border system located within and along the property limits. The El Paso City Wide Water and Wastewater Residuals Management Study conducted in 1994 by CH2M-Hill reported the existence of a vadose zone at a depth of 370 feet. In conjunction with low permeability clay soils, level of water content in sludge, low rainfall and high evapotranspiration rates in the area, the study suggests leaching of pollutants to groundwater is unlikely.

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Appendix C, Attachment 18

Financial Assurances

Section 4.B of worksheet 4.0 pg. 14

el paso WATER

December 18, 2024

Wastewater Permitting Section/Municipal Permits Team (MC-148)
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

RE: Sewage Sludge Permit Application Technical Report, TPDES Permit No. WQ0010408004(TX0026751)

I am the CFO of the El Paso Water Utilities Public Service Board, 1154 Hawkins Blvd., El Paso, Texas 79925.This letter is in support of the use of the bond rating test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and non-sudden accidental releases in the amount of at least $1,000,000 per occurrence and $1,000,000 annual aggregate arising from operating the McCombs Monofill surface disposal unit. This local government is not organized to provide general governmental services and does not have the legal authority under the state law or constitutional provisions to issue general obligation debt.

The McCombs Monofill is assured by this bond rating test located at physical address – Northwest corner of FM259 and McCombs Street, El Paso, Texas.

The details of the issue date, maturity, outstanding amount, bond rating, and bond rating agency of all outstanding revenue bond issues that are being used by City of El Paso Public Service Board to demonstrate financial responsibility are as follows:

BOND SERIES	ISSUE DATE	MATURITY DATE	AMOUNT OUTSTANDING
2014 Refunding Series	1/15/2014	3/1/2025	4,010,000
2015 Refunding Series	12/1/2014	3/1/2035	16,565,000
2015A Revenue Series	7/1/2015	3/1/2035	11,940,000
2015B Revenue Series	11/1/2015	3/1/2035	29,420,000
2015C Refunding Series	11/1/2015	3/1/2035	30,820,000
2016 Refunding & Improvement	7/15/2016	3/1/2037	45,290,000
2016A Refunding Series	11/15/2016	3/1/2036	77,000,000
2017 Refunding & Improvement	10/1/2017	3/1/2038	67,240,000
2017A Revenue Series	11/14/2017	3/1/2037	41,500,000
2018 Refunding Series	12/1/2018	3/1/2039	26,670,000
2019 Revenue Series	3/1/2019	3/1/2039	1,115,000
2019A Refunding Series	9/1/2019	3/1/2039	33,400,000
2019B Refunding Series	9/1/2019	3/1/3031	14,705,000
2020 Refunding Series	9/1/2020	3/1/2040	33,880,000
2020A Refunding Series	9/1/2020	3/1/2033	38,890,000
2021 Refunding Series	4/1/2021	3/1/2041	35,490,000
2021A Refunding Series	4/1/2021	3/1/2034	72,525,000
2022 Refunding Series	4/1/2022	3/1/2052	304,900,000
2022A Refunding Series	9/27/2022	3/1/2048	266,135,000
2023 Refunding & Improvement Series	6/1/2023	3/1/2049	169,140,000
2023A Revenue Series	11/1/2023	3/1/2044	8,680,000
TOTALS			**$1,329,315,000**

The total outstanding obligation of $1,329,315,000, excluding refunded bond issues, exceeds the minimum amount of $1 million. All outstanding revenue bonds issued by this government that have been rated by Standard & Poor's and Fitch Ratings are rated AA and AA+, respectively, based on the most recent ratings published within the last 12 months. The revenue bonds listed are not backed by third-party credit enhancement or are insured by a municipal bond insurance company. Neither rating service has provided notification within the last 12 months of downgrading of bond ratings below investment grade or of withdrawal of bond rating other than for repayment of outstanding bond issues.

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR Part 280.104(e) as such regulations were constituted on the date shown immediately below.

Arturo Duran

12/18/2024

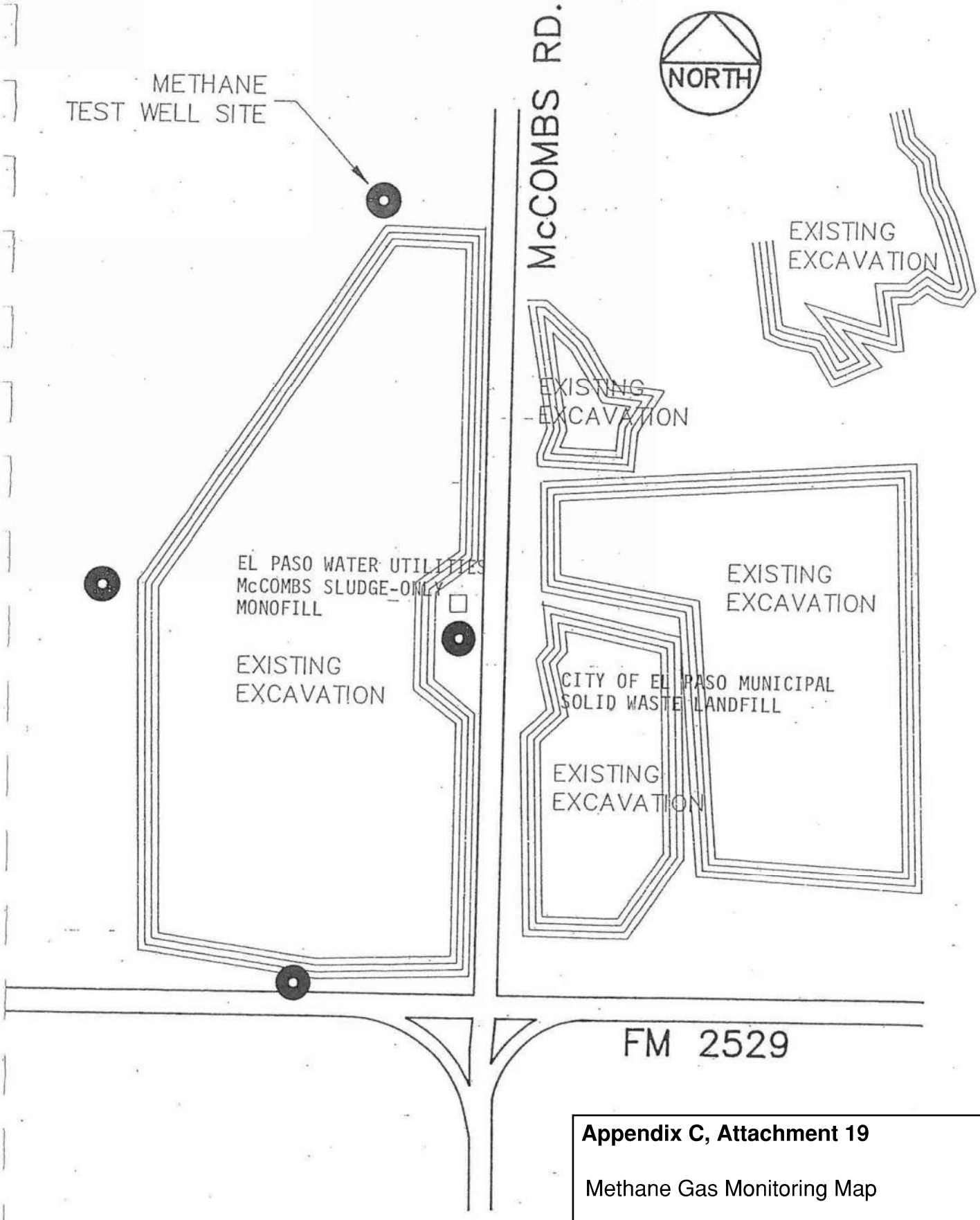
Arturo Duran, CFO

Date

Appendix C, Attachment 19

Methane Gas Monitoring Map

Section 4.B of worksheet 4.0 pg. 14



Appendix C, Attachment 19

Methane Gas Monitoring Map

(Section 4B pg. 14)

METHANE MONITORING WELL SITES

Appendix C, Attachment 19.1

Methane Gas Monitoring Description

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 19.1

Section 4.B., page 14 of the Sewage Sludge Report 4.0

Description of Methane Gas Monitoring if Cover is Placed on the Disposal Unit

Methane gas levels are checked at four monitoring wells around the McCombs Monofill. These wells are positioned along the north, south, east, and west of the McCombs Monofill (See Appendix C, Attachment 19). Monitoring occurs monthly at the surface (ambient air) and at 20ft, 40ft, and 60 ft depth at each well site.

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Appendix C, Attachment 20

Public Access Restriction Description

Section 4.B of worksheet 4.0 pg. 14

Appendix C, Attachment 20

TPDES Permit No. WQ0010408009 John T. Hickerson (Northwest) WTP

SEWAGE SLUDGE TECHNICAL REPORT 4.0

Section 4B, Page 14

Description of method to restrict public access to the site The disposal site is fenced along its property line. In addition, a total of five gates are located along the perimeter fence. Only one gate along McCombs Road is dedicated for authorized access to the site and it's secured with locking devices. The remaining gates are locked and are for authorized access only (access to monitoring wells), or permanently secured. Restrictive signage warning trespassers are also strategically located along the site boundaries adjacent to McCombs Road and Stan Roberts, Sr. Road.

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Appendix C, Attachment 21

Groundwater Monitoring Data

Section 5.A of worksheet 4.0 pg. 14

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPW Water Reclamation & Biosolids

Project: MONOFILL WELLS 2ND QT-06/13/22 (39972)

Sampling Location:
El Paso Water
Monofil Well 1A
13101 McCombs
El Paso, TX 79924

Requested By:
David G. Tirre
El Paso Water
10751 Montana Ave.
El Paso, TX 79935

dtirre@EPWU.org

Ph: 915-594-5443

Fax: 915-621-2056

Lab ID: 22-15186
Sample ID: MF-Well 1A-06/14/22
Sampling Source: Tap
Sample Type: GRAB

Collected: 06/14/2022 07:15
Received: 06/14/2022 10:42
Reported: 08/05/2022 14:35
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
EPA 350.1 Ammonia										
Ammonia as N	<0.100	mg/L	1	0.100		07/07/2022 21:17	EUX	07/07/2022 21:17	EUX	
EPA 200.8, ICP-MS Metals										
Arsenic, Tot. Rec., ICP-MS	0.0027	mg/L	1	0.001		07/02/2022 13:39	PACE	07/02/2022 13:39	PACE	
EPA 200.7, ICP Salts										
Calcium, Dissolved	106	mg/L	1	10.0		07/06/2022 16:50	LQM	07/06/2022 16:50	LQM	
Potassium, Dissolved	13.0	mg/L	1	2.00		07/06/2022 16:50	LQM	07/06/2022 16:50	LQM	
Sodium, Dissolved	372	mg/L	1	10.0		07/06/2022 16:50	LQM	07/06/2022 16:50	LQM	
Magnesium, Dissolved	29.3	mg/L	1	0.500		07/06/2022 16:50	LQM	07/06/2022 16:50	LQM	
SM 4500 (COC) pH										
pH (COC)	7.2	pH	1	1		06/14/2022 07:25	SMP	06/14/2022 07:25	SMP	
Temperature (COC)	24.4	ºC	1	1		06/14/2022 07:25	SMP	06/14/2022 07:25	SMP	
EPA 200.7 ICP Salts (Contract)										
Calcium	131	mg/L	1	0.50		07/01/2022 16:29	PACE	07/01/2022 16:29	PACE	
Iron	0.08	mg/L	1	0.04		07/01/2022 16:29	PACE	07/01/2022 16:29	PACE	
Magnesium	37.3	mg/L	1	0.50		07/01/2022 16:29	PACE	07/01/2022 16:29	PACE	
Manganese	0.01	mg/L	1	0.01		07/01/2022 16:29	PACE	07/01/2022 16:29	PACE	
Potassium	18.3	mg/L	1	1.00		07/01/2022 16:29	PACE	07/01/2022 16:29	PACE	
EPA 300.1 Anions										
Nitrite-N	<0.1	mg/L	1	0.1		06/14/2022 22:55	JCA	06/14/2022 22:55	JCA	
Nitrate-N	14.703	mg/L	2	0.2		06/14/2022 23:16	JCA	06/14/2022 23:16	JCA	
SM 2510B										
Conductivity at 25°C	2750	umhos/cm	1	147		06/15/2022 14:36	OVT	06/15/2022 14:36	OVT	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
PCB-1221 (Aroclor 1221)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
PCB-1232 (Aroclor 1232)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
PCB-1242 (Aroclor 1242)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
PCB-1248 (Aroclor 1248)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12

Lab ID:	22-15186	**Collected:**	06/14/2022 07:15
Sample ID:	MF-Well 1A-06/14/22	**Received:**	06/14/2022 10:42
Sampling Source:	Tap	**Reported:**	08/05/2022 14:35
Sample Type:	GRAB	**Matrix:**	Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
PCB-1254 (Aroclor 1254)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
PCB-1260 (Aroclor 1260)	<0.480	ug/L	1	0.480		06/29/2022 22:48	PACE	06/29/2022 22:48	PACE	12
SM 9222D, Fecal Coliform (MF)										
Fecal Coliform	<1.00	CFU/100mL	1	1.00		06/14/2022 14:38	ASL	06/14/2022 14:38	ASL	
SM 2540C TDS										
Total Dissolved Solids	1880	mg/L	1	100		06/14/2022 14:21	NHM	06/14/2022 14:21	NHM	
HACH 8114, Total Phosphorus										
Phosphorus, Total	2.11	mg/L	1	1		06/17/2022 14:00	LDS	06/17/2022 14:00	LDS	
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	<2.00	mg/L	1	2.00		06/21/2022 13:47	SNR	06/21/2022 13:47	SNR	
SM 2510B, Conductivity										
Specific Conductance	2750	uS/cm	1			06/14/2022 07:25	SMP	06/14/2022 07:25	SMP	

Sample Comments

ADDITIONAL BILL METALS 062722

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Parameter Qualifiers

1	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2	H2-Extraction or preparation conducted outside EPA method holding time.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala
Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPW Water Reclamation & Biosolids

Project: MONOFILL WELLS 2ND QT-06/13/22 (39972)

Sampling Location:
El Paso Water
Monofil Well 2A
13101 McCombs
El Paso, TX 79924

Requested By:
David G. Tirre
El Paso Water
10751 Montana Ave.
El Paso, TX 79935

dtirre@EPWU.org

Ph: 915-594-5443

Fax: 915-621-2056

Lab ID: 22-15187
Sample ID: MF-Well 2A-06/13/22
Sampling Source: Tap
Sample Type: GRAB

Collected: 06/13/2022 10:00
Received: 06/13/2022 11:15
Reported: 08/05/2022 14:35
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
EPA 350.1 Ammonia										
Ammonia as N	<0.100	mg/L	1	0.100		07/07/2022 01:08	EUX	07/07/2022 01:08	EUX	
EPA 200.8, ICP-MS Metals										
Arsenic, Tot. Rec., ICP-MS	0.0047	mg/L	1	0.001		07/05/2022 11:04	PACE	07/05/2022 11:04	PACE	
SM 4500 (COC) pH										
pH (COC)	6.8	pH	1	1		06/13/2022 10:15	SMP	06/13/2022 10:15	SMP	
Temperature (COC)	27.3	°C	1	1		06/13/2022 10:15	SMP	06/13/2022 10:15	SMP	
EPA 200.7 ICP Salts (Contract)										
Calcium	309	mg/L	1	0.50		07/02/2022 00:28	PACE	07/02/2022 00:28	PACE	
Iron	3.50	mg/L	1	0.04		07/02/2022 00:28	PACE	07/02/2022 00:28	PACE	
Magnesium	63.0	mg/L	1	0.50		07/02/2022 00:28	PACE	07/02/2022 00:28	PACE	
Manganese	0.09	mg/L	1	0.01		07/02/2022 00:28	PACE	07/02/2022 00:28	PACE	
Potassium	17.6	mg/L	1	1.00		07/02/2022 00:28	PACE	07/02/2022 00:28	PACE	
EPA 300.1 Anions										
Nitrite-N	<0.1	mg/L	1	0.1		06/13/2022 23:16	JCA	06/13/2022 23:16	JCA	
Nitrate-N	8.64	mg/L	5	0.5		06/13/2022 23:58	JCA	06/13/2022 23:58	JCA	
SM 2510B										
Conductivity at 25°C	3050	umhos/cm	1	147		06/13/2022 16:18	OVT	06/13/2022 16:18	OVT	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1221 (Aroclor 1221)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1232 (Aroclor 1232)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1242 (Aroclor 1242)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1248 (Aroclor 1248)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1254 (Aroclor 1254)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
PCB-1260 (Aroclor 1260)	<0.480	ug/L	1	0.480		06/29/2022 21:47	PACE	06/29/2022 21:47	PACE	12
SM 9222D, Fecal Coliform (MF)										
Fecal Coliform	<1.00	CFU/100mL	1	1.00		06/13/2022 14:40	ASL	06/13/2022 14:40	ASL	
SM 2540C TDS										

Lab ID:	22-15187	**Collected:**	06/13/2022 10:00
Sample ID:	MF-Well 2A-06/13/22	**Received:**	06/13/2022 11:15
Sampling Source:	Tap	**Reported:**	08/05/2022 14:35
Sample Type:	GRAB	**Matrix:**	Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
Total Dissolved Solids	2330	mg/L	1	100		06/15/2022 12:04	NHM	06/15/2022 12:04	NHM	3
HACH 8114, Total Phosphorus										
Phosphorus, Total	<1	mg/L	1	1		06/17/2022 14:00	LDS	06/17/2022 14:00	LDS	
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	<2.00	mg/L	1	2.00		06/21/2022 13:47	SNR	06/21/2022 13:47	SNR	
SM 2510B, Conductivity										
Specific Conductance	3130	uS/cm	1			06/13/2022 10:15	SMP	06/13/2022 10:15	SMP	

Sample Comments

ADDITIONAL BILL METALS 062722

Subcontractor
EUX Eurofins Houston - 4145 Greenbriar Dr. - Stafford, TX 77477 - T104704215-21-44
Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Parameter Qualifiers

1	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2	H2-Extraction or preparation conducted outside EPA method holding time.
3	Constant weight for this analyte was not obtained, result may not be suitable for regulatory purposes.

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

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Teresa Alcala
Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPW Water Reclamation & Biosolids

Project: MONOFILL WELLS 2ND QT-06/13/22 (39972)

Sampling Location:
El Paso Water
Monofil Well 3A
13101 McCombs
El Paso, TX 79924

Requested By:
David G. Tirre
El Paso Water
10751 Montana Ave.
El Paso, TX 79935

dtirre@EPWU.org

Ph: 915-594-5443

Fax: 915-621-2056

Lab ID: 22-15188
Sample ID: MF-Well 3A-06/13/22
Sampling Source: Tap
Sample Type: GRAB

Collected: 06/13/2022 08:00
Received: 06/13/2022 11:14
Reported: 08/05/2022 14:35
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
EPA 350.1 Ammonia										
Ammonia as N	<0.100	mg/L	1	0.100		07/07/2022 20:15	EUX	07/07/2022 20:15	EUX	
EPA 200.8, ICP-MS Metals										
Arsenic, Tot. Rec., ICP-MS	0.0024	mg/L	1	0.001		07/02/2022 13:41	PACE	07/02/2022 13:41	PACE	
EPA 200.7, ICP Salts										
Calcium, Dissolved	246	mg/L	1	10.0		07/06/2022 16:42	LQM	07/06/2022 16:42	LQM	
Potassium, Dissolved	12.8	mg/L	1	2.00		07/06/2022 16:42	LQM	07/06/2022 16:42	LQM	
Sodium, Dissolved	289	mg/L	1	10.0		07/06/2022 16:42	LQM	07/06/2022 16:42	LQM	
Magnesium, Dissolved	52.2	mg/L	2	1.00		07/07/2022 09:28	LQM	07/07/2022 09:28	LQM	
SM 4500 (COC) pH										
pH (COC)	6.6	pH	1	1		06/13/2022 08:15	SMP	06/13/2022 08:15	SMP	
Temperature (COC)	25.3	°C	1	1		06/13/2022 08:15	SMP	06/13/2022 08:15	SMP	
EPA 200.7 ICP Salts (Contract)										
Calcium	271	mg/L	1	0.50		07/01/2022 16:33	PACE	07/01/2022 16:33	PACE	
Iron	6.90	mg/L	1	0.04		07/01/2022 16:33	PACE	07/01/2022 16:33	PACE	
Magnesium	52.2	mg/L	1	0.50		07/01/2022 16:33	PACE	07/01/2022 16:33	PACE	
Manganese	0.38	mg/L	1	0.01		07/01/2022 16:33	PACE	07/01/2022 16:33	PACE	
Potassium	16.0	mg/L	1	1.00		07/01/2022 16:33	PACE	07/01/2022 16:33	PACE	
EPA 300.1 Anions										
Nitrite-N	<0.1	mg/L	1	0.1		06/14/2022 00:19	JCA	06/14/2022 00:19	JCA	
Nitrate-N	10.6	mg/L	5	0.5		06/14/2022 01:01	JCA	06/14/2022 01:01	JCA	
SM 2510B										
Conductivity at 25°C	2890	umhos/cm	1	147		06/13/2022 16:18	OVT	06/13/2022 16:18	OVT	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
PCB-1221 (Aroclor 1221)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
PCB-1232 (Aroclor 1232)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
PCB-1242 (Aroclor 1242)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
PCB-1248 (Aroclor 1248)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12

Lab ID:	22-15188	**Collected:**	06/13/2022 08:00
Sample ID:	MF-Well 3A-06/13/22	**Received:**	06/13/2022 11:14
Sampling Source:	Tap	**Reported:**	08/05/2022 14:35
Sample Type:	GRAB	**Matrix:**	Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
PCB-1254 (Aroclor 1254)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
PCB-1260 (Aroclor 1260)	<0.510	ug/L	1	0.510		06/29/2022 22:07	PACE	06/29/2022 22:07	PACE	12
SM 9222D, Fecal Coliform (MF)										
Fecal Coliform	<1.00	CFU/100mL	1	1.00		06/13/2022 14:40	ASL	06/13/2022 14:40	ASL	
SM 2540C TDS										
Total Dissolved Solids	2020	mg/L	1	100		06/13/2022 14:00	NHM	06/13/2022 14:00	NHM	
HACH 8114, Total Phosphorus										
Phosphorus, Total	<1	mg/L	1	1		06/17/2022 14:00	LDS	06/17/2022 14:00	LDS	
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	<2.00	mg/L	1	2.00		06/16/2022 10:30	GPP	06/16/2022 10:30	GPP	
SM 2510B, Conductivity										
Specific Conductance	2980	uS/cm	1			06/13/2022 08:15	SMP	06/13/2022 08:15	SMP	

Sample Comments

ADDITIONAL BILL METALS 062722

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Parameter Qualifiers

1	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2	H2-Extraction or preparation conducted outside EPA method holding time.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala
Laboratory Services Manager

ANALYTICAL REPORT

4100-L Delta Drive
El Paso, TX 79905-4306
Phone (915) 594-5725

Client: EPW Water Reclamation & Biosolids

Project: MONOFILL WELLS 2ND QT-06/13/22 (39972)

Sampling Location:
El Paso Water
Monofil Well 4A
13101 McCombs
El Paso, TX 79924

Requested By:
David G. Tirre
El Paso Water
10751 Montana Ave.
El Paso, TX 79935

dtirre@EPWU.org

Ph: 915-594-5443

Fax: 915-621-2056

Lab ID:	22-15189	**Collected:**	06/14/2022 09:15
Sample ID:	MF-Well 4A-06/14/22	**Received:**	06/14/2022 10:42
Sampling Source:	Tap	**Reported:**	08/05/2022 14:35
Sample Type:	GRAB	**Matrix:**	Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
EPA 350.1 Ammonia										
Ammonia as N	<0.100	mg/L	1	0.100		07/07/2022 21:20	EUX	07/07/2022 21:20	EUX	
EPA 200.8, ICP-MS Metals										
Arsenic, Tot. Rec., ICP-MS	0.0085	mg/L	1	0.001		08/01/2022 13:18	JAA	08/01/2022 13:18	JAA	
EPA 200.7, ICP Salts										
Calcium, Dissolved	25.6	mg/L	1	10.0		07/07/2022 12:20	LQM	07/07/2022 12:20	LQM	
Potassium, Dissolved	3.64	mg/L	1	2.00		07/07/2022 12:20	LQM	07/07/2022 12:20	LQM	
Sodium, Dissolved	48.8	mg/L	1	10.0		07/07/2022 12:20	LQM	07/07/2022 12:20	LQM	
Magnesium, Dissolved	3.72	mg/L	1	0.500		07/07/2022 12:20	LQM	07/07/2022 12:20	LQM	
SM 4500 (COC) pH										
pH (COC)	7.3	pH	1	1		06/14/2022 09:25	SMP	06/14/2022 09:25	SMP	
Temperature (COC)	24.7	ºC	1	1		06/14/2022 09:25	SMP	06/14/2022 09:25	SMP	
EPA 200.7 ICP Salts (Contract)										
Calcium	32.2	mg/L	1	0.50		07/01/2022 16:44	PACE	07/01/2022 16:44	PACE	
Iron	0.06	mg/L	1	0.04		07/01/2022 16:44	PACE	07/01/2022 16:44	PACE	
Magnesium	4.70	mg/L	1	0.50		07/01/2022 16:44	PACE	07/01/2022 16:44	PACE	
Manganese	<0.01	mg/L	1	0.01		07/01/2022 16:44	PACE	07/01/2022 16:44	PACE	
Potassium	4.40	mg/L	1	1.00		07/01/2022 16:44	PACE	07/01/2022 16:44	PACE	
EPA 300.1 Anions										
Nitrite-N	<0.2	mg/L	2	0.2		06/15/2022 00:18	JCA	06/15/2022 00:18	JCA	
Nitrate-N	1.719192144	mg/L	2	0.2		06/15/2022 00:18	JCA	06/15/2022 00:18	JCA	
SM 2510B										
Conductivity at 25°C	495	umhos/cm	1	147		06/15/2022 14:36	OVT	06/15/2022 14:36	OVT	
SW 8082 PCBs										
PCB-1016 (Aroclor 1016)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
PCB-1221 (Aroclor 1221)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
PCB-1232 (Aroclor 1232)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
PCB-1242 (Aroclor 1242)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
PCB-1248 (Aroclor 1248)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12

Lab ID:	22-15189	**Collected:**	06/14/2022 09:15
Sample ID:	MF-Well 4A-06/14/22	**Received:**	06/14/2022 10:42
Sampling Source:	Tap	**Reported:**	08/05/2022 14:35
Sample Type:	GRAB	**Matrix:**	Drinking Water

Parameter	Result	Units	Dil.	RDL	MCL	Prepared	By	Analyzed	By	Qual
PCB-1254 (Aroclor 1254)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
PCB-1260 (Aroclor 1260)	<0.480	ug/L	1	0.480		06/29/2022 23:08	PACE	06/29/2022 23:08	PACE	12
SM 9222D, Fecal Coliform (MF)										
Fecal Coliform	<1.00	CFU/100mL	1	1.00		06/14/2022 14:38	ASL	06/14/2022 14:38	ASL	
SM 2540C TDS										
Total Dissolved Solids	296	mg/L	1	100		06/14/2022 14:21	NHM	06/14/2022 14:21	NHM	
HACH 8114, Total Phosphorus										
Phosphorus, Total	<1	mg/L	1	1		06/17/2022 14:00	LDS	06/17/2022 14:00	LDS	
SM 4500 Norg C, TKN										
Nitrogen, Kjeldahl, Total	<2.00	mg/L	1	2.00		06/16/2022 10:30	GPP	06/16/2022 10:30	GPP	
SM 2510B, Conductivity										
Specific Conductance	509	uS/cm	1			06/14/2022 09:25	SMP	06/14/2022 09:25	SMP	

Sample Comments

ADDITIONAL BILL METALS 062722

Subcontractor
PACE Pace Analytical Services, LLC -528 N. 9th St. Salina, KS 67401 T104704407-19-12

Parameter Qualifiers

1	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2	H2-Extraction or preparation conducted outside EPA method holding time.

We value your feedback. Your input and comments help us improve the efficiency of our services. Please send your comments via email to ttalcala@epwater.org or fax to (915) 594-5430

Teresa Alcala
Laboratory Services Manager

Appendix C, Attachment 22

Groundwater Monitoring Plan

Section 5.B-C of worksheet 5.0 pg. 14

Certification of Groundwater Monitoring Program
For McCombs Sludge Monofil
Permit No. WQ0010408-004

Scott Reinert
Water Resources Manager
El Paso Water Utilities
August 26, 2009

Appendix C, Attachment 22

Groundwater Monitoring Program and 30 TAC 312.64(n) Certification (Section 5.B P.14)

INTRODUCTION

Data related to groundwater quality in the vicinity of the McCombs Monofill have been reviewed and analyzed. The general location of the monofill is shown on Figure 1. El Paso Water Utilities(EPWU) currently maintains the McCombs Monofill sludge disposal facility under Texas Commission on Environmental Quality (TCEQ) Permit No. WQ0010408-004, approved July 31, 1998. As required in the permit, EPWU has been sampling four monitoring wells since 1988. The location of these wells is shown on Figure 2.

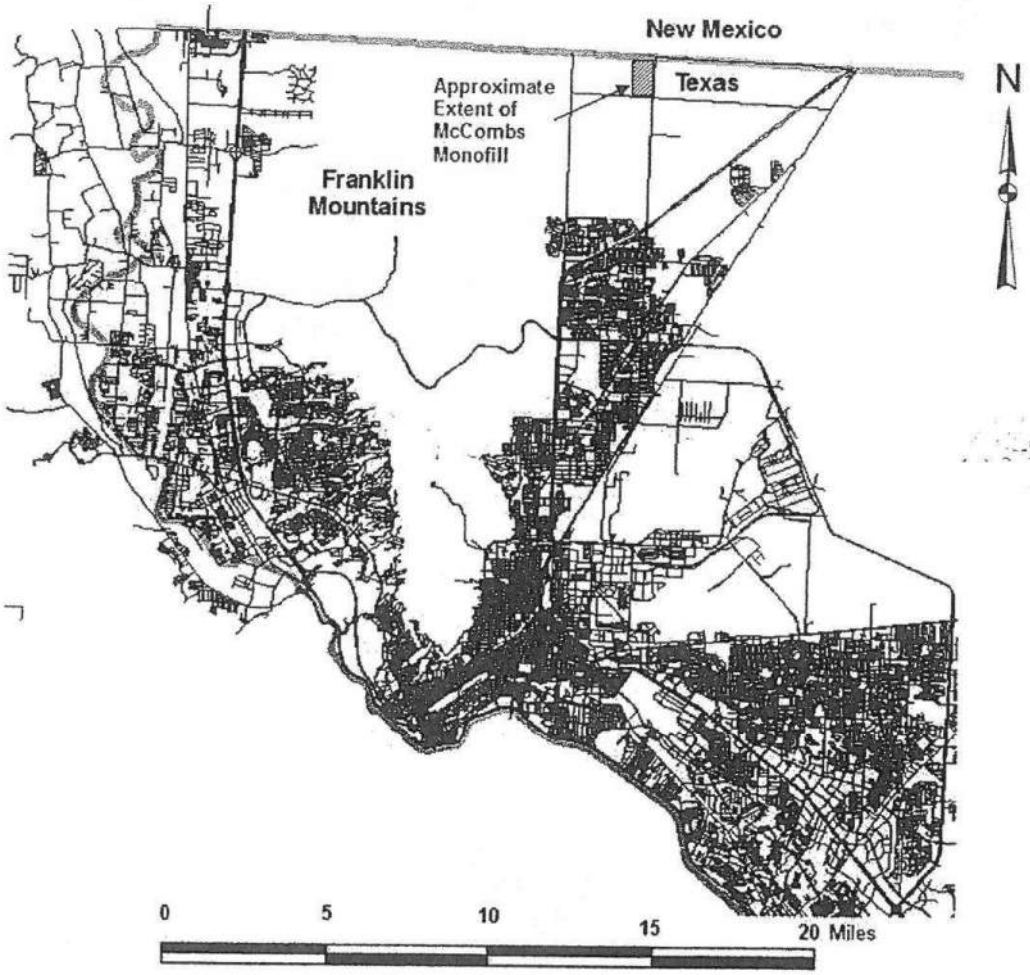

Figure 1. General Location of Mc Combs Monofill, El Paso, Texas

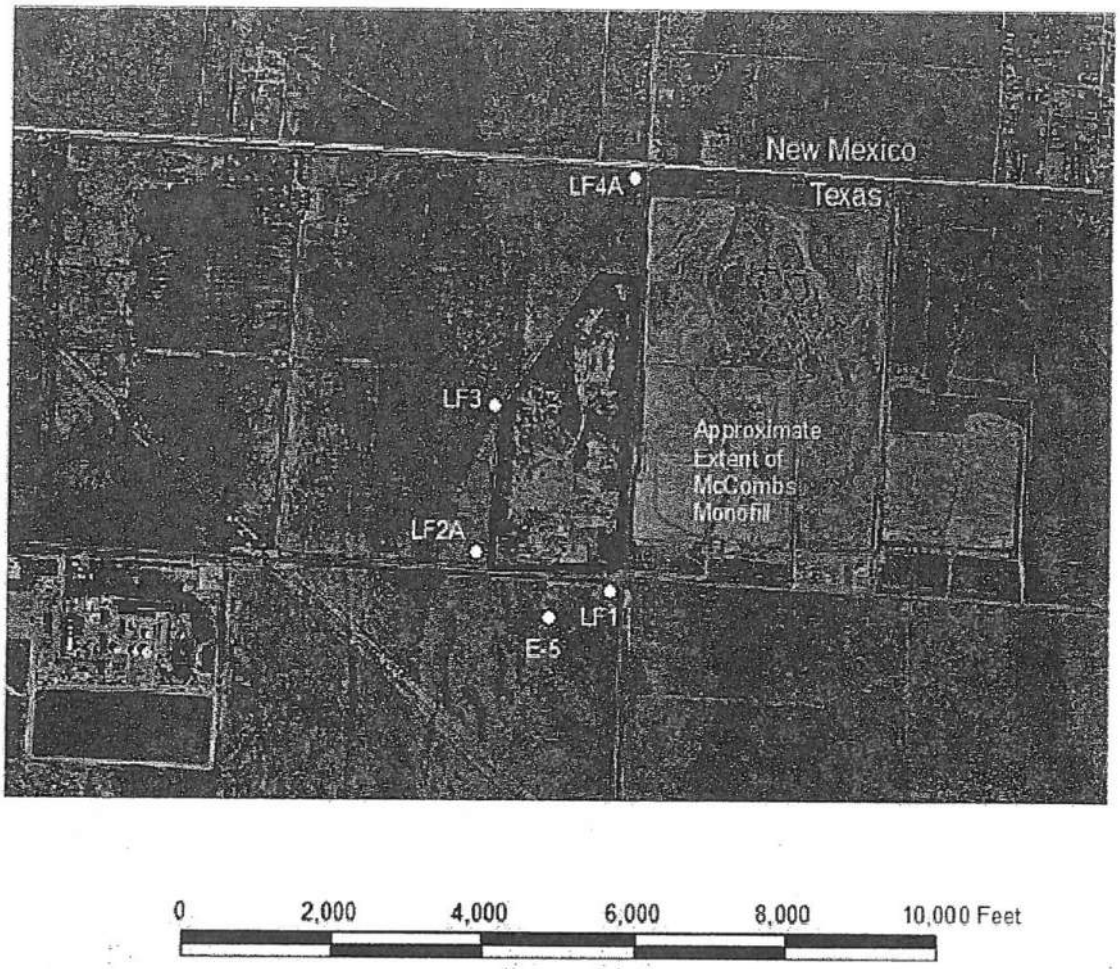

Figure 2. Location of Monitoring Wells

Table 1 summarizes the monitored parameters.

Table 1. Monitored Parameters of Groundwater Quality

Copper	Polychlorinated Biphenyls (PCB)
Nickel	Elect. Conductivity
Phosphorus	TDS
Zinc	Fecal Coliform
Cadmium	pH
Lead	Ammonia-Nitrogen
Nitrate-Nitrogen	Total Nitrogen
Potassium	

Regional groundwater flow direction in the area is shown in Figure 3. These groundwater flow directions were estimated from the regional groundwater flow model of the area. Based on the regional flow direction, it can be seen that Well LF4A is upgradient to the

monofill, Wells LF2A and LF3 are crossgradient to the monofill, and Wells LF1 and E-5 are downgradient from the monofill.

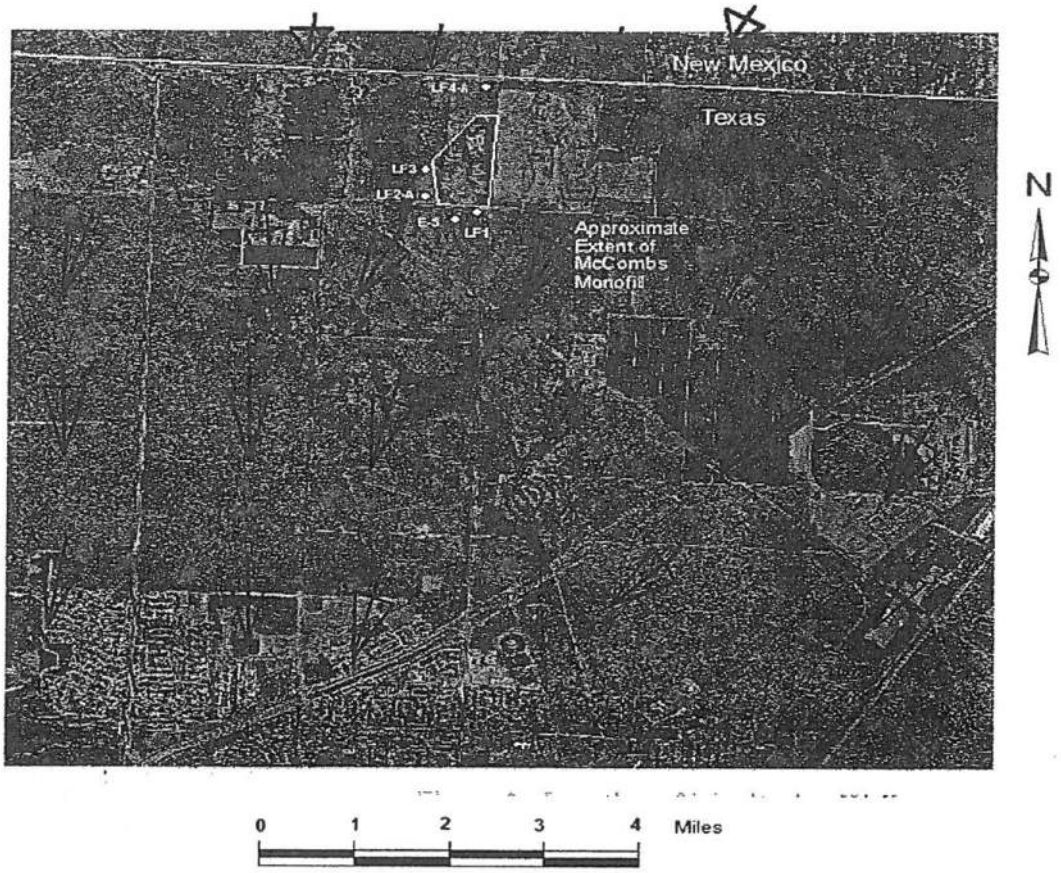

Figure 3. Regional Groundwater Flow Direction

HISTORIC DISPOSAL AT MONOFILL

Historic disposal volumes are shown in Table 2. EPWU ceased sludge disposal activities in January 2004 due to the startup of a new disposal site. For purposes of Table 2, it is assumed that 5.25 cubic yards of material is equivalent to one dry ton. Peak disposal was in 1993 (29,124 tons), and generally the disposal rate was around 22,000 tons per year.

EPWU desires to maintain an active permit for the existing McCombs Monofill in case of emergency events. This new permit seeks disposal at the McCombs Monofill at a rate not to exceed approximately 57 dry tons per day and up to a maximum of 400 dry tons per year.

Table 2. Historic Disposal Volumes and Weights, McCombs Monofill

Year	Volume (Cubic Yards)	Weight (Dry Tons)
1989	36,163	6,888
1990	76,701	14,610
1991	79,308	15,106
1992	111,160	21,173
1993	152,902	29,124
1994	135,484	25,806
1995	115,464	21,993
1996	123,552	23,534
1997	120,000	22,857
1998	125,000	23,810
1999	120,000	22,857
2000	120,476	22,948
2001	100,045	19,056
2002	102,953	19,610
2003	115,150	21,993

GROUNDWATER QUALITY MONITORING DATA

Water quality data collected from LF1, LF2A, LF3, E-5, and LF4A are presented in the Appendix. These data were reviewed in accordance with 30 TAC §312.64(n) that states:

> *"Sewage sludge placed on an active sludge unit must not contaminate an aquifer. Results of a groundwater monitoring program developed by a licensed professional geoscientist or licensed professional engineer or a certification by a licensed professional geoscientist or licensed professional engineer shall be used to demonstrate that sewage sludge placed on an active sludge unit does not contaminate an aquifer. The results of the certification shall be signed, sealed, and dated by the licensed professional geoscientist or licensed professional engineer preparing the results of the certification."*

Additionally, the definition of "contaminate an aquifer", as presented in 30 §TAC 312.8(19) states:

> *"To introduce a substance that causes the maximum contaminant level for nitrate in 40 Code of Federal Regulations (CFR) §141.11, as amended, to be exceeded in groundwater or that causes the existing concentration of nitrate in groundwater to increase when the existing concentration of nitrate in the groundwater already exceeds the maximum contaminate level for nitrate in 40 CFR §141.11, as amended."*

The following parameters were consistently below detection limits in all wells: copper, nickel, phosphorus, cadmium, lead, PCB, fecal coliform, ammonia-nitrogen, and total nitrogen. Zinc was consistently below detection limits in Well LF4A, and was at low concentrations in the other three wells. Nitrate-nitrogen data varied during the monitoring

period and between wells. This variation is of interest, and the data are summarized in Figures 4-7.

The downgradient well (LF1) had several readings above 10 mg/l in the early 1990s. Since 1995, the downgradient well exhibited nitrate concentrations that were generally below 6 mg/l until 2001, when nitrate concentrations increased to a peak just above 10 mg/l in 2002 (10.5 mg/l) and 2003 (10.3 mg/l). Groundwater samples collected in 2003 exhibited nitrate concentrations that were at or below 10 mg/l. Groundwater samples collected in 2006 exhibited concentrations that were slightly above 10 mg/l. The year 2007 was marked with highly variable nitrate data ranging from 0 to 13.7 mg/l. The sample collected in 2008 resulted in a nitrate concentration of 10.6 mg/l. Data collected in the 2009 was again marked with high variability including 16.6 mg/l (3/31/09), 3.21 mg/l (5/12/09), and 0.1 mg/l (7/14/09).
Nitrate concentrations in LF1 have been shown to be quite variable over the past 20 years (1988-2009) with no definite increasing trend of concentration above the primary standard. It is interesting to note that the nitrate concentration of a sample collected on September 25, 1988 (9 mg/l) is actually higher than the nitrate concentrations of the two most recent sampling events on May 12, 2009 (3.21 mg/l) and July 14, 2009(0.1 mg/l) (Figure 4).

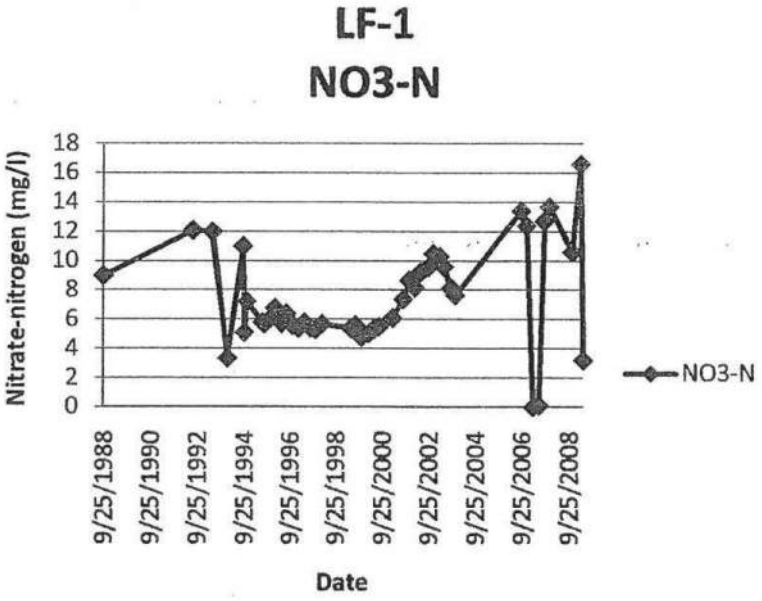

Figure 4-Summary of Nitrate Data in LF-1

During a period of pump malfunction in LF1, additional water quality samples were collected from Well E-5. This is a well that is located west of LF1 and is downgradient of the monofill. Nitrate concentrations in Well E-5 were all below 10 mg/l (Figure 5).

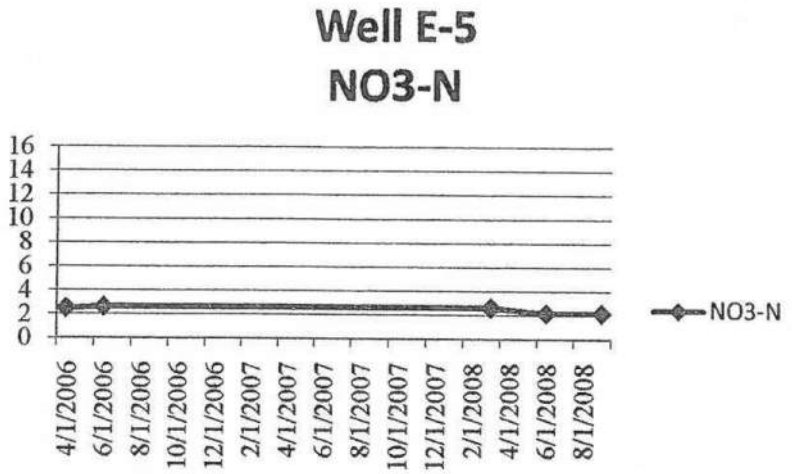

Figure 5-Summary of Nitrate Data in Well E-5

Note that in the and the cross gradient well (LF2A and LF3) and upgradient well (LF4A), nitrate concentrations are variable during the period of monitoring and are less than 10 mg/l (Figures 6, 7, and 8).

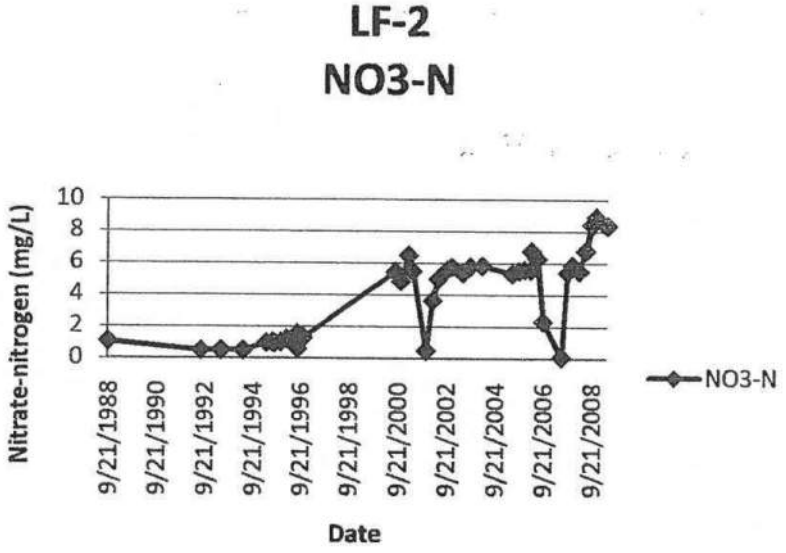

Figure 6-Summary of Nitrate Data in LF-2A

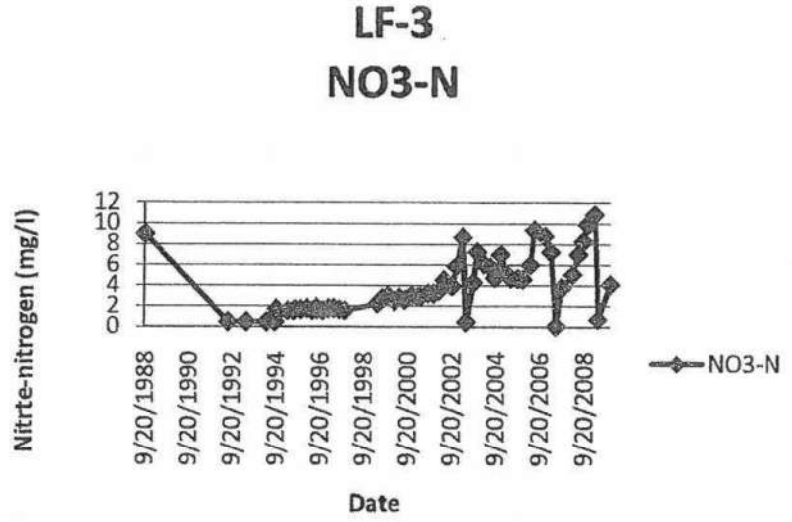

Figure 7-Summary of Nitrate Data in LF-3

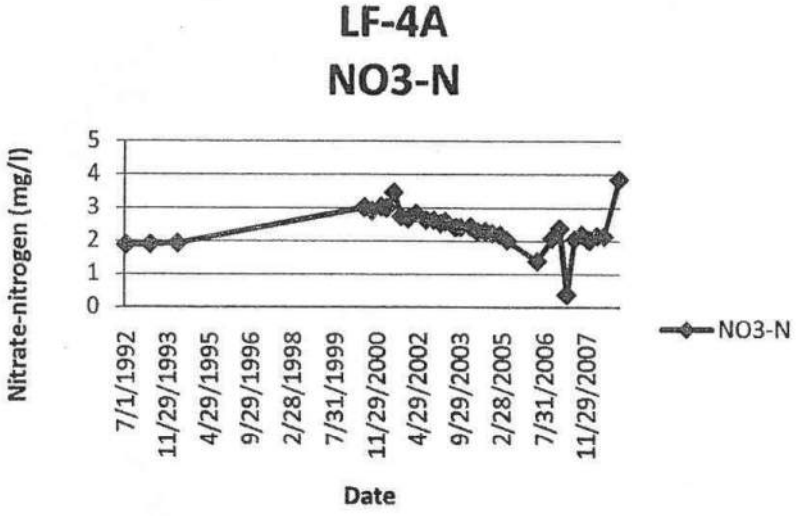

Figure 8-Summary of Nitrate Data in LF-4A

It appears that the monofill has resulted in elevated nitrates in the downgradient well as compared to the upgradient and cross gradient wells. However, the monofill has not caused "contamination" of the groundwater as defined in 30 §TAC 312.8(19). Water quality samples have been collected for the past 20 years at the monitoring wells surrounding the monofill. Review of the water quality data, indicates that there is no

consistent trend of nitrate concentrations exceeding the primary standard in any of the wells.

Given the tentative conclusion that the monofill has resulted in elevated nitrate concentrations, and the fact that the disposal ceased at the monofill, it would be reasonable to conclude that nitrate concentrations in the downgradient well (LF1) will decline over the next several years. Recall that the historic rate of disposal at the monofill was as high as about 29,000 tons/year, and in more recent years was about 21,000 tons per year. The requested disposal rate for emergency disposal sought in the new permit is 400 tons/year. Given that the higher disposal rates has not caused groundwater "contamination" as defined by 30 TAC §312.8(19), permitting a disposal of 400 tons per year would not result in "contamination". Continuation of the monitoring program is recommended to verify this conclusion.

APPENDIX

WATER QUALITY DATA FROM MONOFILL WELLS (LF-1, E-5, LF-2A, LF-3, LF-4A)

Monitoring Results - LF1

	Copper	Nickel	Phosporus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCB	Elect. Cond.	TDS	Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l	colonies/ 100ml	std. unit	mg/l	mg/l
9/25/1988	<0.010	n/a		0.282	<0.0005	0.0053	9	4.8			406		8.4		
7/21/1992	<0.01	<0.01	0.9	0.186	<0.0005	<0.005	12.1	20.36	nd	2750	2161		7.4	<0.6	0.1
5/18/1993	<0.0050	<0.0050	<0.20	0.165	<0.0005	<0.0050	12	16.8	nd		1982		7.7	<1.0	0.11
1/11/1994									nd						
1/11/1994	<0.0050	<0.0050	<0.10	0.298	<0.0005		3.34	6.64	nd	784	490		8	<1	<35.0
9/6/1994			<0.10				11			2530					
9/6/1994	nd	nd	<0.10	4.71	nd	0.013	11	12		2530					
9/30/1994	<0.005	<0.0050	<0.10	0.719	<0.0005	<0.0050	5.1	1.6	nd	1183	665		7.6	<2	<2
11/8/1994	<0.005	<0.0050	<0.10	0.955	<0.0005	<0.005	7.22	10.42	nd	1756	1151		7.5	<2	<2
4/12/1995			<0.1					9.64	nd	1664	1086		7.9	<1.0	<2
7/18/1995	<0.0050	<0.0050	<0.1	0.495	<0.0005	0.0052	5.8	9.82	nd	1470	990		8	<2	<2
8/17/1995	<0.0050	<0.0050	<0.20	0.352	<0.0005	<0.0050	5.7	7.2	nd	1440	980		7.7	<2	<2
11/14/1995			<0.10				6.02	8.2	nd	1400	950		7.7	<2.0	<2
2/2/1996	<0.0050	<0.0050	<0.10	0.746	<0.0005	0.0065	6.8	10.7	nd	1500	1100		7.4	<2.0	<2.0
5/21/1996	nd	nd	nd	0.447	0.0014	nd	5.7	8.92	nd	1300	910		7.5	nd	nd
7/30/1996	nd	nd	nd	1.01	nd	0.0232	6.21	9.4	nd	1500	1040		7.6	nd	2.4
8/8/1996	nd	nd	nd	0.344	nd	nd	6.4	10.6	nd	1600	1190		7.7	nd	nd
11/5/1996	nd	nd	nd	0.476	nd	nd	5.6	8.31	nd	1400	930		6.5	nd	5.4
2/11/1997	nd	nd	nd	0.533	nd	nd	5.4	8.3	nd	1330	930		7.9	nd	nd
5/13/1997	nd	nd	nd	0.456	nd	nd	5.8	7.47	nd	1400	990		6.9	nd	nd
8/19/1997	nd	nd	nd	0.46	nd	nd	5.4	8.59	nd	1400	910		7.6	nd	nd
11/11/1997	nd	nd	nd	nd	nd	0.0056	5.3	8.88	nd	1400	950		8.1	nd	nd
2/24/1998	nd	nd	nd	0.398	nd	nd	5.7	8.3	nd	1400	900		7.3	nd	nd
5/18/1999	nd	nd	nd	0.358	nd	nd	5.4	7.74	nd	1400	880		7.5	nd	2.25
8/9/1999	nd	nd	nd	0.296	nd	nd	5.61	7.99	nd	1400	860		7.6	nd	2.3
11/2/1999	nd	nd	nd	0.306	nd	nd	4.79	7.94	nd	1340	870		7.6	nd	nd
2/22/2000	nd	nd	nd	0.298	nd	nd	5.03	7.64	nd	1300	800		7.9	nd	nd
5/9/2000	nd	nd	nd	0.261	nd	nd	5.3	8.09	nd	1400	870			nd	nd
8/8/2000	nd	nd	nd	0.231	nd	nd	5.5	7.79	nd	1400	920		7.6	nd	nd
11/7/2000	nd	nd	nd	0.239	nd	nd		8.05	nd	1200	790		7.9	nd	nd
3/1/2001	nd	nd	nd	0.345	nd	0.0052	6.08	9.96	nd	1600	1100		7.8	nd	nd
5/1/2001	nd	nd	nd	0.405	nd	nd	6.56	10.1	nd	1600			7.5	0.56	nd
8/23/2001	nd		nd	0.218	nd	nd	7.38	16.3	nd	1900	1300		7.8	2	nd
11/20/2001			nd				8.66	13		1600	1500			nd	nd
2/21/2002	<0.010	<0.010	<0.20	0.238	<0.0005	<0.0050	8.15	9.97	<0.5	21300	1430		8.3	0.6	<2.0
5/20/2002	<0.010	<0.010	<0.2	0.283	0.0008	<0.0050	9.24	12.5	<0.5	2230	1550		7.1	0.3	<2.0
9/26/2002	<0.010	<0.010	<0.2	0.361	<0.0005	<0.0050	9.58	13.6	<0.5	2380	1640		8.9	<2.0	<2.0
12/5/2002	<0.010	<0.010	<0.2	0.441	<0.0005	<0.0050	10.5	13.4	<0.5	2630	1830	<1		<2.0	<2.0
3/19/2003	<0.010	<0.010	2.2	0.357	<0.0005	<0.0050	10.3	13.7	<0.5	2650	1760		8.1	<2.0	<2.0
5/21/2003	<0.010	<0.010	<0.2	0.367	<0.0005	<0.0050	9.62	11.4	<0.5	2350	1580	<1	7	<2.0	<2.0
9/9/2003	<0.010	<0.010	<0.2	0.286	<0.0005	<0.0050	8.14	9.88	<0.5	2030	1300	<1	8	<2.0	<2.0
11/17/2003	<0.010	<0.010	<0.2	0.207	<0.0005	<0.0050	7.66	10.7	<0.5	1840	1190	<1	7.2	<2.0	<2.0

n/a - Not Sampled/No Information Available
nd = Not detected

. Monitoring Results -LF1 (continued)

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
3/28/2006	no sample produced															
4/17/2006*	0.01	0.01	0.2	0.020	0.0005	0.005	2.18	4.29	0.5	455	232	<	1	8.3	2	2
6/21/2006*	0.01	0.01	0.2	0.010	0.0005	0.01	2.2	4.15	0.5	455	280	<	1	7.1	2	2
9/18/2006	0.01	0.01	0.2	0.572	0.0005	0.01	13.4	14.5	0.5	2940	2080	<	1	7.1	2	2
12/13/2006	0.001	0.001	0.2	0.490	0.0005	0.01	12.4	13.4	0.5	2760	1900	<	5	7.3	2	2
3/27/2007	0.01	0.01	0.2	0.513	0.0005	0.01	0	13.7	0.5	2700	1890	<	10	7.5	2	2
6/25/2007	0.01	0.01	0.2	0.717	0.0005	0.01	0.1	13.8	0.5	2850	1990	<	2	7.9	2	2
9/19/2007	0.01	0.01	0.2	0.010	0.0005	0.01	12.7	13.2	0.5	2920	2070	<	4	7.7	2	
12/5/2007	0.01	0.01	0.2	0.644	0.0005	0.01	13.7	13.8	0.5	2580	1910	<	2	7.5	2	2
3/24/2008*	0.01	0.01	0.2	0.023	0.0005	0.01	2.51	5.2	0.5	545	280	<	1	8.4	2.4	2
6/17/2008*	0.01	0.01	0.2	0.015	0.5	0.5	2.64	4.8	0.5	476	306	<	2	7.9	2	2
9/9/2008*	0.01	0.01	0.2	0.010	2.4	0.9	2.64	4.1	0.5	485	348	<	2	7.9	2	2
11/18/2008	0.01	0.01	0.2	0.372	0.5	0.5	10.6	10.9	0.5	2120	1470	<	2	8.3	0.02	2
3/31/2009	0.01	0.01	0.2	0.782	0.5	0.5	16.6	14.2	0.5	3220	2190	<	2	8.4	0.038	0.9
5/12/2009	0.01	0.01	0.2	0.734	0.5	0.5	3.21	14.8	0.5	3080	2110	<	1	7.6	0.02	2

* Indicates pump malfunction in LF1. Sample collected from Well E-5

Monitoring Results- Well E5

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
6/21/2006	0.01	0.01	0.2	0.010	0.0005	0.01	2.2	4.15	0.5	455	280	<	1	7.1	2	2
3/24/2008	0.01	0.01	0.2	0.023	0.0005	0.01	2.51	5.2	0.5	545	280	<	1	8.4	2.4	2
6/17/2008	0.01	0.01	0.2	0.015	0.5	0.5	2.64	4.8	0.5	476	306	<	2	7.9	2	2
9/9/2008	0.01	0.01	0.2	0.010	2.4	0.9	2.64	4.1	0.5	485	348	<	2	7.9	2	2

Monitoring Results - LF2A

	Copper	Nickel	Phosporus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCB	Elect. Cond.	TDS	Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l	colonies/ 100ml	std. unit	mg/l	mg/l
9/21/1988	<0.010	n/a		1.312	<0.0005	0.0082	1.07	12			638		8.2		
7/21/1992	<0.01	<0.01	0.18	0.058	<0.0005	<0.005	<0.5	7.09	nd	640	390		7.1	<0.5	<0.1
5/18/1993	<0.0050	<0.0050	<0.20	0.062	<0.0005	<0.0050	<0.5	6.76	nd		346		7.3	<1.0	<0.1
4/20/1994	nd	nd	<0.20	2.24	nd	0.034	<0.50	7.58	nd	941	528		7.5	<0.20	<0.30
4/12/1995	<0.0050	<0.0050	<0.1	1.62	<0.0005	<0.0050	0.98	10.8	nd	1153	627		7.9	<1.0	<2
7/18/1995	0.0203	0.0106	<0.1	20.6	0.0018	0.146	<1.0	12.2	nd	1010	580		8.2	<2	<2
8/17/1995	0.0139	<0.0050	<0.20	12.7	0.0021	0.13	0.95	9.36	nd	1030	600		8	<2	<2
11/14/1995			<0.10				<10	10.9	nd	1010	580		7.8	<2	<2
2/20/1996	0.0053	0.0058	<0.10	5.37	<0.0005	0.043	1.2	9.45	nd	920	580		7.4	<2.0	<2.0
5/21/1996	0.0088	0.0059	0.115	8.01	0.0006	0.044	1.1	9.73	nd	870	550		7.9	nd	2
7/30/1996	0.0345	0.0098	0.122	20.4	0.0036	0.122	1.57	16.4	nd	1300	850		7.7	nd	2.9
8/8/1996	0.0298	0.0129	0.292	19.2	0.0019	0.134	0.62	12.2	nd	1100	627		8.5	nd	nd
11/5/1996	0.005	0.0053	0.15	2.93	nd	0.0154	1.3	7.99	nd	820	500		6.5	nd	nd
8/15/2000	nd	0.0056	nd	nd	nd	nd	5.46	6.45		970	600		8		nd
11/7/2000	nd	nd	nd	nd	nd	nd	4.84	7	nd	880	530		7.8	nd	nd
3/1/2001	nd	nd	nd	nd	nd	nd	6.51	7.7	nd	1100	660		7.5	nd	nd
5/1/2001	nd	nd	nd	nd	nd	nd	5.5	7.03	nd	970	590		7	0.85	0.56
11/20/2001			0.211				nd	4.4		600	420			nd	nd
2/22/2002	<0.010	<0.010	<0.200	<0.020	<0.0005	<0.0050	3.66	5.24	<0.5	737	454	8.2		0.3	<2.0
5/21/2002	<0.010	<0.010	<0.2	<0.010	<0.0005	<0.0050	5.02	7.1	<0.5	870	554		7.6	0.3	2
9/26/2002	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.59	8.2	<0.5	973	608		7.2	<2.0	<2.0
12/5/2002	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.76	6.69	<0.5	964	570	<1		<2.0	<2.0
5/21/2003	<0.010	<0.010	<0.2	<0.010	<0.0005	<0.005	5.38	6.59	<0.5	890	550	<1	6.9	<2.0	<2.0
9/9/2003	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.8	6.34	<0.5	967	560	<1	8.1	<2.0	<2.0
3/3/2004	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.84	6.53		987	600	<1	7.7	<2.0	<2.0
6/1/2005	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.35	6.93	<0.5	927	556	<1	7.9	<2.0	<2.0
9/18/2005	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.52	7.29	<0.5	908	572	<1	7.7	<2.0	<2.0
12/13/2005	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	5.6	8.7	<0.5	1000	598	n/a	8	<2	<2.0
3/19/2006	<0.010	<0.010	<0.2	<0.010	<0.0005	<0.005	5.58	6.87	<0.5	929	576		7.6	<2.0	<2.0

n/a - Not Sampled/No Information Available
nd = Not detected

Monitoring Results-LF2A (continued)

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
3/28/2006	0.01	0.01	0.2	0.02	0.0005	0.01	6.77	7.59	0.5	1070	652	<	1	7.9	2	2
6/20/2006	0.01	0.01	0.2	0.01	0.0005	0.01	6.3	6.96	0.5	940	610	<	1	6.9	2	2
9/18/2006	0.01	0.01	0.2	0.01	0.0005	0.01	2.33	4.88	0.5	518	318		2	7.8	2	2
12/13/2006*																
3/27/2007*																
6/25/2007	0.01	0.01	0.2	0.01	0.0005	0.01	0.1	6.9	0.5	1010	642	<	2	7.9	2	2
9/19/2007	0.01	0.01	0.2	0.693	0.0005	0.01	5.4	6.1	0.5	945	560	<	4	8.9	2	2
12/5/2007	0.01	0.01	0.2	0.01	0.0005	0.01	5.88	6.9	0.5	975	698	<	2	7.9	2	2
3/17/2008	0.01	0.01	0.2	0.01	0.0005	0.01	5.5	7.1	0.5	967	584	<	1	7.2	2	2
6/17/2008	0.01	0.01	0.2	0.01	0.5	0.5	6.78	7.4	0.5	1040	664		2	7.6	2	2
9/17/2008	0.01	0.01	0.2	0.031	0.5	0.5	8.45	8.9	0.5	1370	1030		3	7.7	2	2
11/18/2008	0.01	0.01	0.2	0.25	0.5	0.5	8.94	9.5	0.5	1450	922	<	2	8.3	0.02	2
3/31/2009*																
5/12/2009		0.02	0.2	0.01	0.5	0.5	8.38	9	0.5	1490	884	<	1	7.7	0.02	2

* Unable to collect sample (pump malfunction)

Monitoring Results - LF3

	Copper	Nickel	Phosporus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCB	Elect. Cond.	TDS	Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	micromhos/cm	mg/l	colonies/ 100ml	std. unit	mg/l	mg/l
9/20/1988	<0.010	n/a		1.486	<0.0005	0.013	9	7			361		8.3		
7/21/1992	<0.01	<0.01	0.2	0.327	<0.0005	<0.005	<0.5	4.51	nd	430	238		7.4	<0.5	0.3
5/18/1993	<0.0050	<0.0050	<0.20	0.097	<0.0005	<0.0050	<0.5	3.58	nd		218		7.5	<1.0	<0.1
4/20/1994	nd	nd	<0.20	9.37	0.005	0.062	<0.50	3.82	nd	425	242		7.5	<0.20	<0.30
9/6/1994			<0.1				<5.0			360					
9/6/1994	nd	nd	<0.10		nd	nd	<5.0		nd	360					
9/30/1994	<0.0050	<0.0050	<0.10	1.78	<0.0005	<0.005	1.76	3.4	nd	401	252		7.6	<2	<2
11/8/1994	<0.0050	<0.0050	<0.10	0.831	<0.0005	<0.0050	1.44	<5.0	nd	398	239		7.5	3.7	<2
4/12/1995	<0.0050	<0.0050	<0.1	0.445	<0.0005	<0.0050	1.6	3.64	nd	409	259		7.9	<1.0	<2
7/18/1995	<0.0050	<0.0050	<0.1	0.602	<0.0005	<0.0050	1.59	4.42	nd	403	250		7.8	<2	<2
8/17/1995	<0.0050	<0.0050	<0.20	0.265	<0.0005	<0.0050	1.7	3.73	nd	399	300		7.8	<2.0	<2
11/14/1995			<0.1				1.7	3.82	nd	390	240		7.8	<2	<2
2/20/1996	<0.0050	<0.005	<0.10	0.42	<0.0005	<0.005	1.8	<5.0	nd	390	250		7.7	<2.0	<2.0
5/21/1996	nd	nd	nd	0.406	nd	nd	1.6	nd	nd	390	250		7.7	nd	2
7/30/1996	nd	nd	nd	0.298	0.0018	nd	1.9	4.11	nd	400	255		7.6	nd	nd
8/8/1996	nd	nd	nd	0.201	nd	nd	1.73	nd	nd	400	250		7.7	nd	nd
11/5/1996	nd	nd	nd	0.42	nd	nd	1.8	4.06	nd	400	260		8.7	nd	nd
2/11/1997	nd	nd	nd	0.362	nd	nd	1.8	3.8	nd	420	290		7.8	nd	nd
5/13/1997	nd	nd	nd	0.619	nd	0.0097	1.8	3.84	nd	420	280		8.9	nd	nd
8/19/1997	nd	nd	nd	0.561	nd	nd	1.7	4.3	nd	421	260		7.5	nd	2.6
11/11/1997	nd	nd	nd	1.04	nd	0.0065	1.8	4.32	nd	430	270		8	nd	nd
5/18/1999	nd	nd	nd	0.586	nd	0.0087	2.3	4.6	nd	530	320		7.7	nd	1.41
8/3/1999	nd	nd	nd	0.343	nd	nd	2.8	4.74	nd	540	420		7.4	nd	nd
11/2/1999	nd	nd	nd	0.4	nd	nd	3.07	4.89	nd	540	360		7.5	nd	nd
2/22/2000	nd	nd	nd	0.277	nd	nd	2.54	4.4	nd	500	300		8	nd	nd
5/9/2000	nd	nd	nd	0.281	nd	nd	2.9	4.89	nd	520	320			nd	nd
8/8/2000	nd	nd	nd	0.183	nd	nd	2.64	4.39	nd	490	310		7.7	nd	nd
11/30/2000	nd	nd	nd	0.363	nd	nd	3.06	4.38	nd	510	320		7.2	nd	nd
3/1/2001	nd	nd	nd	0.297	nd	0.0053	2.96	4.52	nd	530	310		7.8	nd	nd
5/1/2001	nd	nd	3.1	0.313	nd	nd	2.97	4.58	0.5	540	330		7.3	0.8	0.26
8/23/2001	nd		nd	0.188	nd	nd	3.28	4.87	nd	540	350		7.8	nd	nd
11/20/2001							3.24	4.4		480	380			nd	0.9
2/21/2002	<0.010	<0.010	<0.200	0.262	<0.0005	<0.0050	3.61	4.35	<0.5	692	394		8.1	0.6	<2.0
5/21/2002	<0.010	<0.010	<0.2	0.257	<0.0005	<0.0050	4.57	5.91	<0.5	690	436		8.9	0.3	<2.0
9/26/2002	<0.010	<0.010	<0.2	0.265	<0.0005	<0.0050	3.98	5.89	<0.5	656	396		7.8	<2.0	<2.0
12/5/2002	<0.010	<0.010	<0.2	0.37	<0.0005	<0.0050	5.9	6.02	<0.5	842	492	<1		<2.0	<2.0
3/19/2003	<0.010	<0.010	<0.2	0.252	<0.0005	<0.0050	8.72	7.6	<0.5	1180	698		7.7	<2.0	<2.0
5/21/2003	<0.010	<0.010	<0.2	0.262	<0.0005	<0.0050	<0.10	4.92	<0.5	645	382	<2	7.5	<2.0	<2.0
9/9/2003	<0.010	<0.010	<0.2	0.235	<0.0005	<0.0050	4.31	4.82	<0.5	670	394	<1	8	<2.0	<2.0
11/17/2003	<0.010	<0.010	<0.2	0.198	<0.0005	<0.0050	7.3	5.06	<0.5	602	362	<1	7.8	<2.0	2.3
3/3/2004	<0.010	<0.010	<0.2	2.39	<0.0005	<0.0050	8.14	5.37		795	476	<1	7.5	<2.0	<2.0
6/28/2004	<0.010	<0.010	<0.2	0.589	<0.0005	<0.0050	5.8	6.29	<0.5	759	484	<20	7.6	<2.0	3.5
9/9/2004	<0.010	<0.010	<0.2	0.542	<0.0005	<0.0050	4.79	5.15	<0.5	691	402	<2	7.4	<2.0	<2.0
12/15/2004	<0.010	<0.010	<0.2	0.507	<0.0005	<0.0050	7.03	6.16	<0.5	944	528	TNTC	7.9	<2.0	<2.0
3/9/2005	<0.010	<0.010	<0.2	0.398	<0.0005	<0.0050	6.23	6.14	<0.5	724	406	<1	7.7	<2.0	<2.0
6/1/2005	<0.010	<0.010	<0.2	0.298	<0.0005	<0.0050	4.72	5.65	<0.5	685	414	<1	7.9	<2.0	<2.0
9/16/2005	<0.010	<0.010	<0.2	0.391	<0.0005	<0.0050	4.7	6.07	<0.5	632	426	<1	8	<2.0	<2.0
12/13/2005	<0.010	<0.010	<0.2	0.03	0.0006	<0.0050	4.63	5.03	<0.5	708	434	n/a	7.9	<2.0	<2.0

n/a - Not Sampled/No Information Available
nd = Not detected

Monitoring Results -LF3 (continued)

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
3/28/2006*																
4/17/2006	0.01	0.01	0.2	0.296	0.0005	0.005	6.02	5.52	0.5	754	472	<	1	7.9	2	2
6/20/2006	0.01	0.01	0.2	0.349	0.0005	0.01	9.4	7.37	0.5	1050	674	<	1	7.1	2	2
9/18/2006*																
12/13/2006	0.01	0.01	0.2	0.179	0.0005	0.01	8.81	7.5	0.5	1080	652	<	5	6.9	2	1
3/27/2007	0.01	0.01	0.2	0.117	0.0005	0.01	7.27	6.7	0.5	877	560	<	10	7.1	2	2
6/25/2007	0.01	0.01	0.2	0.099	0.0005	0.01	0.1	5.7	0.5	727	450	<	2	8	2	2
9/19/2007	0.01	0.01	0.2	0.01	0.0005	0.01	3.82	5.4	0.5	687	394	<	4	7.9	2	2
12/5/2009	0.01	0.01	0.2	0.106	0.0005	0.01	4.14	5.8	0.5	715	450	<	2	8.3	2	2
3/17/2008	0.01	0.01	0.2	0.108	0.0005	0.01	5.12	6.5	0.5	797	480	<	1	7	2	2
6/17/2008	0.01	0.01	0.2	0.128	0.5	0.5	7.07	6.9	0.5	860	550	<	2	7.6	2	2
9/9/2008	0.01	0.01	0.2	0.118	0.5	0.5	8.3	6.6	0.5	1020	622	<	1	6.9	29	2
11/18/2008	0.01	0.01	0.2	0.112	0.5	0.5	9.94	7.8	0.5	1140	700	<	2	8.1	0.02	2
3/10/2009	0.01	0.01	0.2	0.093	0.5	0.5	10.9	19.5	0.5	1050	782	<	1	8.2	0.02	2
5/12/2009	0.01	0.01	0.2	0.083	0.5	0.5	0.76	6.5	0.5	777	428	<	1	8.1	0.02	2

*Unable to collect sample (pump malfunction)

Monitoring Results - LF4A

	Copper	Nickel	Phosporus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCB	Elect. Cond.	TDS	Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	micromhos/cm	mg/l	colonies/ 100ml	std. unit	mg/l	mg/l
7/26/1988	0.167	n/a		0.4	<0.0005	<0.01									
7/21/1992	<0.01	<0.01	0.16	0.278	0.0008	<0.005	1.89	4.43	nd		238		7.7	<0.5	0.2
5/18/1993	<0.0050	<0.005	<0.20	0.267	0.0008	<0.0050	1.9	3.73	nd		216		7.8	<1.0	<0.1
4/21/1994	0.93	nd	<0.20	nd	0.008	0.87	1.93	3.53	nd	390	240		7.7	<0.20	0.3
8/15/2000	nd	nd	nd	nd	nd	nd	3.02	4.2		440	290		8.3		nd
11/30/2000	nd	nd	nd	nd	nd	nd	2.91	3.71	nd	390	240		7.5	nd	nd
3/1/2001	nd	nd	nd	nd	nd	nd	3.04	3.4	nd	380	220		7.8	nd	nd
5/1/2001	nd	nd	nd	nd	nd	nd	3	3.49	nd	380	240		7.6	0.3	1.13
8/23/2001	nd		nd	nd	0.001	nd	3.47	3.64	nd	380	250		7.8	nd	nd
11/20/2001			0.36				2.75	2.9		300	240			nd	nd
2/21/2002	<0.010	<0.010	<0.2	<0.010	<0.0005	<0.0050	2.68	3.01	<0.5	384	246		7.9	0.6	<2.0
5/21/2002	<0.010	<0.010	<0.2	<0.010	<0.0005	<0.0050	2.84	5.12	<0.5	376	254		7.9	0.3	<2.0
9/26/2002	<0.010	<0.010	<0.2	0.027	<0.0005	<0.0050	2.65	4.42	<0.5	388	246		7.8	<2.0	<2.0
12/5/2002	<0.010	<0.010	<0.2	0.043	<0.0005	<0.0050	2.64	4.63	<0.5	386	216	<1		<2.0	<2.0
3/19/2003	<0.010	<0.010	1.9	<0.010	<0.0005	<0.0050	2.53	3.5	<0.5	390	242		8.2	<2.0	<2.0
5/21/2003	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.69	3.52	<0.5	391	240	<1	7.3	<2.0	3.6
9/9/2003	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.42	3.8	<0.5	391	230	<1	8.4	<2.0	<2.0
11/17/2003	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.42	3.96	<0.5	397	242	<1	7.9	<2.0	2.23
3/3/2004	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.44	3.35		395	240	<1	8.1	<2.0	<2.0
6/28/2004	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.28	3.88	<0.5	389	252	<10	7.6	<2.0	2.9
9/9/2004	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.3	3.52	<0.5	404	234	<1	7.4	<2.0	<2.0
12/15/2004	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.24	4.16	<0.5	419	238	TNTC	8.3	<2.0	<2.0
3/9/2005	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.19	4.63	<0.5	406	232	<1	7.6	<2.0	<2.0
6/1/2005	<0.010	<0.010	<0.2	<0.020	<0.0005	<0.0050	2.02	3.84	<0.5	397	248	<1	8.1	<2.0	<2.0

nfa = Not Sampled/No Information Available
nd = Not detected

Table 6. Monitoring Results -LF4A (continued)

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
3/28/2006																
6/20/2006	0.01	0.01	0.2	0.01	0.0005	0.01	1.4	5.98	0.5	1120	728	<	1	6.5	2	2
9/18/2006	0.01	0.01	0.2	0.01	0.0005	0.01	1.36	5.88	0.5	1200	748	<	1	6.7	2	2
12/13/2006	0.01	0.01	0.2	0.01	0.0005	0.01	2.08	4	0.5	409	242	<	5	7.3	2	2
3/27/2007	0.01	0.011	0.2	0.01	0.0005	0.01	2.38	3.8	0.5	382	256	<	10	7.4	2	2
6/25/2007	0.01	0.01	0.2	0.01	0.0005	0.01	0.39	3.4	0.5	393	252	<	2	8.5	2	2
9/19/2007	0.01	0.01	0.2	0.09	0.0005	0.01	2.05	3.5	0.5	400	224	<	4	8.4	2	2
12/5/2007	0.01	0.01	0.2	0.01	0.0005	0.01	2.2	3.7	0.5	388	224	<	2	8.4	2	2
3/17/2008	0.01	0.01	0.2	0.01	0.0005	0.01	2.02	4	0.5	413	252	<	10	8.6	2	2
6/17/2008	0.01	0.01	0.2	0.01	0.5	0.5	2.15	3.9	0.5	400	262	<	2	8.2	2	2
9/9/2008	0.01	0.01	0.2	0.01	0.5	0.5	2.14	3.8	0.5	406	366	<	1	8.2	2	2
11/18/2008																
3/31/2009	0.01	0.01	0.2	0.01	0.5	0.5	3.86	4	0.5	410	196		no result	7.6	0.02	2

Monitoring Results -LP4A (continued)

	Copper	Nickel	Phosphorus	Zinc	Cadmium	Lead	Nitrate-Nitrogen	Potassium	PCBs	Elect. Cond.	TDS		Fecal Coliform	pH	Ammonia-Nitrogen	Total Nitrogen
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	micromhos/cm	mg/l			std. unit	mg/l	mg/l
3/28/2006																
6/20/2006	0.01	0.01	0.2	0.01	0.0005	0.01	1.4	5.98	0.5	1120	728	<	1	6.5	2	2
9/18/2006	0.01	0.01	0.2	0.01	0.0005	0.01	1.36	5.88	0.5	1200	748	<	1	6.7	2	2
12/13/2006	0.01	0.01	0.2	0.01	0.0005	0.01	2.08	4	0.5	409	242	<	5	7.3	2	2
3/27/2007	0.01	0.011	0.2	0.01	0.0005	0.01	2.38	3.8	0.5	382	256	<	10	7.4	2	2
6/25/2007	0.01	0.01	0.2	0.01	0.0005	0.01	0.39	3.4	0.5	393	252	<	2	8.5	2	2
9/19/2007	0.01	0.01	0.2	0.085	0.0005	0.01	2.05	3.5	0.5	400	224	<	4	8.4	2	2
12/5/2007	0.01	0.01	0.2	0.01	0.0005	0.01	2.2	3.7	0.5	388	224	<	2	8.4	2	2
3/17/2008	0.01	0.01	0.2	0.01	0.0005	0.01	2.02	4	0.5	413	252	<	10	8.6	2	2
6/17/2008	0.01	0.01	0.2	0.01	0.5	0.5	2.15	3.9	0.5	400	262	<	2	8.2	2	2
9/9/2008	0.01	0.01	0.2	0.01	0.5	0.5	2.14	3.8	0.5	406	366	<	1	8.2	2	2
11/18/2008																
3/31/2009	0.01	0.01	0.2	0.01	0.5	0.5	3.86	4	0.5	410	196		no result	7.6	0.02	2

Appendix C, Attachment 23

Profile of Soil Types

Section 5.D of worksheet 5.0 pg. 14

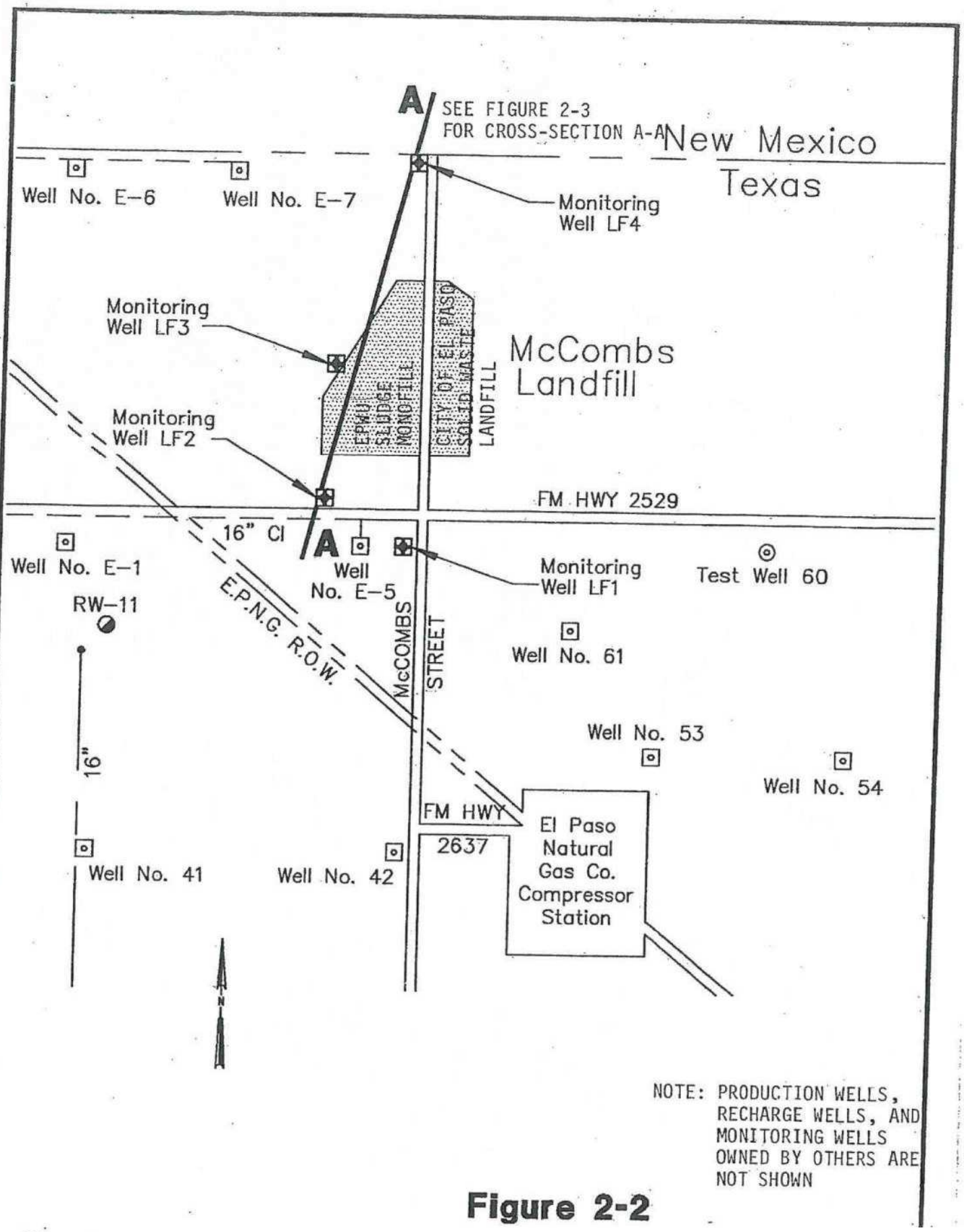

Figure 2-2

EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD

34278F32.DWG

Appendix C, Attachment 23 Profile of Soil Type for McCombs Monofill

(Section 5D. pg. 14)

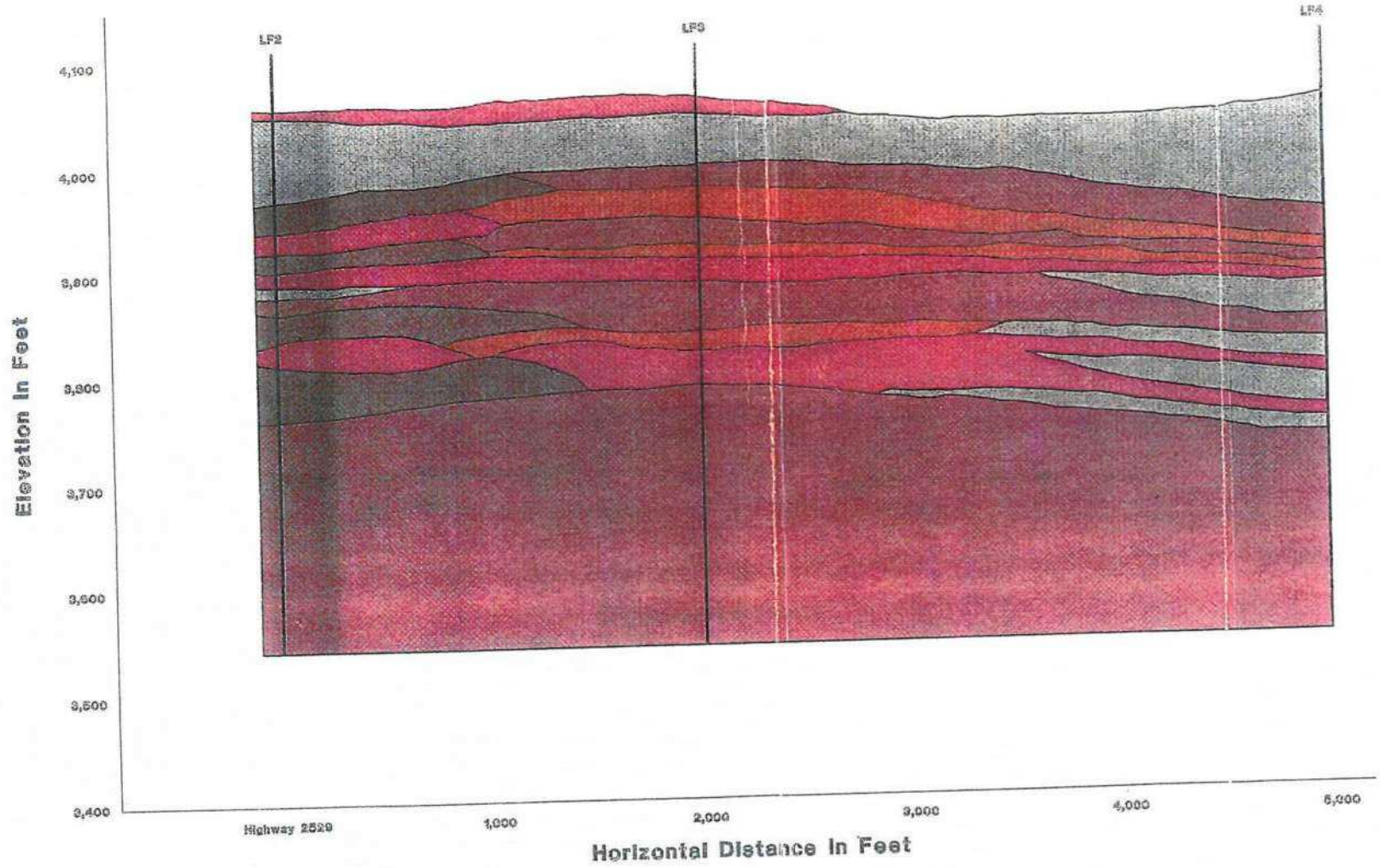

Figure 2-3
A-A Monofill
Geologic Cross-Section

EL PASO PUBLIC WATER UTILITIES SERVICE BOARD

CH2M HILL

Appendix C, Attachment 23 Profile of Soil Type for McCombs Monofill

(Section 5D. pg. 14)

Check Date: Nov/14/2024		Supplier Number: 0000002508				Check No: 258162
Invoice Number	**Invoice Date**	**Voucher ID**	**Gross Amount**	**Discount Taken**	**Late Charge**	**Paid Amount**
M11132024AB P/U AB	Nov/13/2024	00343764	2,015.00	0.00	0.00	2,015.00

Check Number	Date	Total Gross Amount	Total Discounts	Total Late Charge	Total Paid Amount
258162	Nov/14/2024	$2,015.00	$0.00	$0.00	$2,015.00

THE FACE OF THIS DOCUMENT HAS A VOID PANTOGRAPH BACKGROUND - THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

el paso WATER

1154 Hawkins Blvd 915.594.5623
El Paso, TX 79925-6436

Wells Fargo Bank Texas N.A.
221 N. Kansas
El Paso, TX 79901

258162
88-6/1120
WS

Date Nov/14/2024 **Pay Amount** **$2,015.00*****

Pay ****TWO THOUSAND FIFTEEN AND XX/100 DOLLAR ****

VOID AFTER 90 DAYS

To The Order Of **TEXAS COMM ON ENVIRONMENTAL QUALITY**
12100 Park 35 Circle
Austin TX 78753

Ana L. Sanchez

TWO AUTHORIZED SIGNATURES REQUIRED

⑈258162⑈ ⑆112000066⑆ 8259818030⑈

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via electronic submittal to: Brandon.Maldonado@tceq.texas

February 4, 2025

Mr. Brandon Maldonado
Applications Review and Processing Team (MC 148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Re: Response to Notice of Deficiency dated February 3, 2025
Application or Renew Permit No.: WQ010408009 (EPA I.D. No. TX0087149)
Applicant Name: El Paso Water Utilities Public Service Board (CN600745392)
Site Name: John T Hickerson WWTF (RN103870341)
Type of Application: Renewal without changes

Mr. Maldonado:

We received the referenced Notice of Deficiency (NOD) via email on February 3, 2025. This letter is written in response to the deficiencies noted therein as detailed below.

1. Administrative Report 1.0

   Section 12, Item D: In reference to the noted delinquent payment, please find attached a copy of a check from El Paso Water payable to TCEQ in the amount of $105.00, prepared and mailed to TCEQ on this date, February 4, 2025.

   Section 8, Item D: The location identified for public viewing of the permit (International Water Quality Laboratory at 4100-L Delta Drive, El Paso, Texas) is accessible by the public.

2. NORI

   NORI Review: Please see attached PDF document (copy of page 2 of NOD letter) with a recommended edit in the second sentence of the first paragraph altering the wording from "…**near** the city of El Paso…" to "…**in** the city of El Paso".

   NORI Spanish language translation: Please see attached MS Word document with the Spanish language translation of the specified portions of the NORI.

If there are any questions, or if additional information is needed, please do not hesitate to contact me at the address in the letterhead, via email at rboyd@h2o-terra.com, or by telephone at (210)872-5346.

Sincerely,

Rober G. Boyd, P.E

Attachments:
Check copy
NORI edit
NORI translation

Emailed to above — 02/04/2025
Acknowledgement of Receipt — Date

CHECKLIST FOR ADMIN REVIEW OF MUNICIPAL INDIVIDUAL PERMIT APPLICATION

Permit No.: WQ0010408009	Received Date: 1/23/2025	App Type: Renewal
Review Date: 2/3/2025	TPDES or TLAP: TPDES	Auth Type: PUB DOM WW

PRE-REVIEW STEPS

☒ Create a folder for the WQ# in your folder in Reviewer Working Files and save a copy of the checklist.
☒ For Renewals and Major Amendments, open a copy of the current active permit from: Commissioners Integrated Database (CID) or Central Registry External Query Tool ID Search. Save a copy of the permit to the Application Record main folder for the year. If the applicant's name is different from the permit, also check for a Transfer Order and save.
☒ Verify the folders and electronic copy of the application have been saved to the Application Record. If electronic copy has not been received, it must be requested in the NOD. Verify with front end staff.
☐ Verify if a paper copy of the application was received in the ARP Assignments spreadsheet. If the original paper copy has not been received, it must be requested in the NOD.

Notes: _____

APPLICATION ROUTING

☒ See Admin Review Process SOPs, starting with Section 3 – Notifications.
☐ Pre-tech review for Agronomy/Groundwater was routed (for TLAP new and major amendments, SADDS all types, and all applications with (or proposing) Class B sludge provisions). **Includes all TPDES (renewal/new/major) with TLAP or sludge provisions. See Checklist pg. 7 and SOP pg. 31**
☐ Pre-tech review for Receiving Water Assessment (RWA) determination was routed (for TPDES new and major amendments). ☐ RWA sheet has been completed by WQA.
☐ Coastal Zone sheet was completed for all applications and routed for determination for new and major amendments in the coastal counties. ☐ Coastal Zone sheet has been completed by WQA.
☒ Pre-tech review for municipal permitting team was routed (for new and major amendments, or renewals for EPA Major facilities and flows above 1.0 MGD).
☒ Pre-tech review for Pretreatment has been routed for all TPDES Public Domestic WW applications.
☐ Update Yes/No for pre-tech reviews in PARIS Application Summary Tab.
☒ ARP coders (for all TPDES) was routed.

Notes: _____

FEES OR PENALTIES OWED

☒ Verified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Customer Name.
☐ No ☒ Yes Amount Owed: _____
☒ Print to PDF a copy of the page of the fee report to the Application Record Admin Folder.

ADMINISTRATIVE REPORT 1.0 – FOR ALL APPLICATIONS

SECTION 1. APPLICATION FEES

☒ Correct amount is checked, **and** the check or voucher number is provided.
☒ Verified payment was received in Basis2 Report: Water Quality Receipt Report.
☒ Print to PDF a copy of the page of the receipt report to the Application Record Admin Folder.
☒ Copies of checks should not be included in the application. **Delete or redact the check from the e-copy.**

Municipal Application Fee Table

Proposed/Final Phase Flow	New/Major Amend.	Renewals	Minor Amendment or Modification ***without*** Renewal
< .05 MGD	☐ $350.00	☐ $315.00	☐ $150.00 (any flow)
≥ .05 but < .10 MGD	☐ $550.00	☐ $515.00	
≥ .10 but < .25 MGD	☐ $850.00	☐ $815.00	
≥ .25 but < .50 MGD	☐ $1,250.00	☐ $1,215.00	
≥ .50 but < 1.0 MGD	☐ $1,650.00	☐ $1,615.00	
≥ 1.0 MGD	☐ $2,050.00	☒ $2,015.00	

Notes: _____

SECTION 2. TYPE OF APPLICATION

☒ Current version of form is used, and the correct permit and application types are checked.
☐ Reason for amendment or modification is listed (if applicable).
☐ Check Tech Report 1.0 Section 4 – Unbuilt Phases and Tech Report 1.1 Section 1.A – Justification for Permit.
☐ Amendment Requests: _____
Notes: _____

SECTION 3. FACILITY OWNER (APPLICANT) INFORMATION

☒ Legal name of applicant is listed (***the owner of the facility must apply for the permit).***
☒ CN is listed for existing customer.
☒ Name and title of the person signing the application is listed and matches signature page.
☒ Core Data Form (CDF) is provided. A separate CDF is required for each applicant/co-applicant.
Notes: _____

SECTION 3. CO-APPLICANT INFORMATION

☒ N/A – No Co-applicant.
☐ Legal name of co-applicant is listed.
☐ CN is listed for existing customer.
☐ Name and title of the person signing the application is listed and matches signature page.
☐ Core Data Form (CDF) is provided. A separate CDF is required for each applicant/co-applicant.

CORE DATA FORM TCEQ Core Data Standards

Section I – General Information
☒ Reason for submittal is marked.
☒ Customer (CN) and Regulated Entity (RN) Reference Nos. provided – verify with Central Registry Internal Search.

Section II – Customer Information
☒ Customer legal name is provided and it matches name on admin report.
☐ Texas SOS/Filing number is provided for a private business entity – verify with SOS
☐ Texas State Tax ID is provided for a private business entity – verify with Comptroller
☒ Type of customer is marked – refer to information below

- ☐ **Corporation:** Check with Secretary of State (SOS). Verify the entity status and charter number – print page. Verify correct legal spelling of applicant's name. Check spelling with SOS against the name listed in the application. (Permit must be issued in name as filed with SOS.) The applicant must be "**In existence and active**" before the application can be processed further.
- ☐ **Those entities subject to state franchise taxes:** If applicable, check with Comptroller of Public Accounts (CPA) Verify the tax identification number is correct. Note: Non-profit organizations and partnerships are not subject to the state franchise tax.
- ☐ **Individual: Complete Attachment 1 of Admin. Report 1.0** The complete legal name, including the middle name; and all other information is required. This info is required by Chapter 26.027C of the Texas Water Code. A separate attachment is required for each individual customer. **Must be deleted or redacted from e-copy. See SOP pg. 20 Sensitive Information Removal.**
- ☐ **Utility District:** Check iWDD to verify that district is not dissolved status (inactive is O.K. to process).
- ☐ **Trust**: A copy of an executed trust agreement is provided. Verify that applicant's name is the same as the name in the trust agreement. NOTE: Executed trust must show signatures of trustees or beneficiaries forming the trust and the county in which it is recorded.
- ☐ **Partnership**: Verify with Secretary of State (SOS) that partnership is registered, active, and has a filing number. Check spelling with SOS against the name submitted in Item 1; Check that SOS # is correct; Print page from SOS website. OR if the partnership is not listed with the SOS, the applicant must provide a copy of the partnership agreement. The agreement must: give the name of the partnership as provided on the application for permit; list names of partners; bear signatures of the partners; and state the terms of the partnership.
- ☒ **Municipality/Governmental Agencies/School Districts:** City, County, ISD, Fed, etc. – applicable info is listed. Can verify with their public webpage.
- ☐ Other _____

☒ Print to PDF a copy of the page from SOS, CPA, iWDD or other and save to the Application Record Admin Folder.

Notes: _____
☒ Number of employees is marked.
☒ Customer role is marked.
☒ Mailing address for the applicant is provided - verify on USPS. This address is for mailing the permit.
☒ Print to PDF a copy of the page from USPS and save to the Application Record Admin Folder.
☒ Email address is provided.
☒ Telephone number is provided.

Notes: _____

Section III – Regulated Entity Information

☒ Regulated Entity Name is provided and it matches name on admin report.
☒ Street address or location description of facility is adequately described. If different from current permit, new permit may be required. Use Map it in Central Registry to confirm street address or location description.
☒ The county where the facility is located is provided.
☒ The name of the nearest city is provided.
☒ The zip code is provided.
☒ The longitude and latitude of the facility is provided – use Map it in Central Registry to confirm.
☒ Print to PDF a copy of the map page and save to the Application Record Admin Folder.
☐ Primary SIC Code is provided.
☒ Permit No. listed under appropriate program if applicable. Okay if WQ# is missing.
☐ **NOTE**: If other program ID numbers are listed and Update to Regulated Entity is checked in Section III, a copy of the CDF should be emailed to Central Registry EAMT at registry@tceq.texas.gov.

Notes: _____

Section IV – Preparer Information

☒ Name, title, telephone number, and email address are provided.

Section V – Authorized Signature

☒ Company name, title, printed name, phone number, signature, and date are provided.

SECTION 4. APPLICATION CONTACT INFORMATION

☒ Administrative and Technical contact name, address, electronic information provided. Verify address on USPS.
☒ Print to PDF a copy of the page from USPS and save to the Application Record Admin Folder.

SECTION 5. PERMIT CONTACT INFORMATION

☒ 2 Permit contact names, addresses, electronic information provided. Verify address on USPS.
☒ Print to PDF a copy of the page from USPS and save to the Application Record Admin Folder.

SECTION 6. BILLING CONTACT INFORMATION

☒ Billing contact name, address, electronic information provided. Verify address on USPS.
☒ Print to PDF a copy of the page from USPS and save to the Application Record Admin Folder.

SECTION 7. REPORTING CONTACT INFORMATION

☒ DMR/MER contact name, address, electronic information provided. Verify address on USPS.
☒ Print to PDF a copy of the page from USPS and save to the Application Record Admin Folder.

SECTION 8. PUBLIC NOTICE INFORMATION

☐ For a **Minor Amendment *without* Renewal** – NORI is not required. Skip review of notice information.
☒ Name, address, and electronic information of one person responsible for publishing NORI is provided.
☒ Method for receiving NORI package is provided.
☒ Name and phone number of contact to be in NORI is provided.
☒ Location where application will be available is provided and is in the county where the facility is located - the location must be a building supported by taxpayer funds. Note: If discharge is directly into water body that borders two counties, application must be placed in a public facility in both counties and the notice must be published in both counties. Verify with a web search of the public place.
☒ Print to PDF a copy of the public place verification page showing the name, address, and hours of business and save to the Application Record Admin Folder.
☒ Bilingual Items 1 – 5 are completed. If "Yes" to question 1 and "Yes" to either question 2, 3 or 4, then e.5 must be completed. Indicate which language(s) are required Spanish

Notes: _____

Public Involvement Plan (PIP) - Form 20960 - All New or Major Amendment Applications

For all PIP forms:

☐ Section 1 is completed.

☐ Section 2 is completed. All municipal new and major amendment applications require public notice. Verify the geographic location responses are correct using the statistical area map.

If ALL boxes in Section 2 are checked and verified:

☐ Sections 3, 6, and 7 are completed.

☐ Section 4 is completed, or plain language summary was provided by separate attachment for Section 15.

☐ Section 5 is completed. Any languages over 5% in items d and e will require alternative language notice and plain language summary.

SECTION 9. REGULATED ENTITY and PERMITTED SITE INFORMATION

☒ Regulated Entity No. is listed. If not, it is not a deficiency. It can be verified with Central Registry and PARIS.

☒ Name of project or site is provided. Should correspond to Item 22 on CDF.

☒ Owner of the facility identified in the application is the same as the name given in Section 3.A

NOTE: THE OWNER OF THE FACILITY IS REQUIRED TO APPLY FOR THE PERMIT

☒ Marked whether ownership of the facility is public, private, or both.

☒ Owner of the land where permitted facility is or will be located is the **SAME** as the applicant.

☐ The owner of the land on which the facility is located is **DIFFERENT FROM** the owner of the facility: A copy of a lease agreement or easement, with a term for the duration of the permit, between applicant and landowner, has been provided. See Lease Agreement/Easement Memo dated 2/14/06, that states that a lease is sufficient for pond systems, and that details the provisions that a lease agreement or easement must contain. Lease must identify property by legal description or map.
OR landowner can apply as a co-permittee.

Notes: _____

Effluent Disposal Site Owner:

☒ N/A - (no effluent disposal proposed)

☐ If land disposal is authorized in permit or proposed, the applicant **OWNS** land on which site is located.

☐ If applicant **DOES NOT OWN** land where site is located, a long-term lease agreement is provided which includes: a term of at least 5 years; is current or it includes an option to renew the term; is between the current applicant and the landowner; and includes description of property by legal description or map.
(For new TLAP permits only: A copy of an executed option to purchase agreement may be provided to show that applicant will have ownership of the land upon permit approval.)

Sewage Sludge Disposal Site Owner:

☒ N/A - (no sludge disposal proposed)

☐ If sludge is authorized in permit or proposed, the applicant **OWNS** land on which disposal site is located, otherwise lease is needed unless Class B sludge is land applied. Check the permit under Sludge Provisions to determine if sludge is authorized. Note: For BLU sludge application – lease is not needed; landowner just needs to sign sludge affidavit (if different from applicant).

If sludge disposal is proposed or authorized in the permit, the applicant must also submit the applicable sludge forms.

SECTION 10. TPDES DISCHARGE INFORMATION

☒ Checked if treatment facility location in permit is correct.

☒ Checked if discharge info in permit is correct. If applicable, the discharge route description is adequately described and describes the discharge route to the nearest major watercourse. Changing the point of discharge and route from the current permit description requires a major amendment

☒ The name of the city (or nearest city) where the outfall(s) is/will be located has been provided

☒ The county where the outfall is located is provided

☒ The longitude and latitude of the outfall is provided

☒ Marked item regarding authorization for discharge into a city, county, or state ditch. If applicable, correspondence is provided. Email TXDOT if discharge is to a **state** highway right-of-way or roadside ditch.

☒ For a daily average flow of 5 MGD or more: the names of all counties located within 100 miles downstream from the point of discharge. These counties will be listed on contact sheet.

Notes: El Paso County and Hudspeth County

SECTION 11. TLAP DISPOSAL INFORMATION

☐ The written location description of the disposal site is adequately described. **(NOTE: A CHANGE IN LOCATION OR INCREASE IN ACREAGE REQUIRES A MAJOR AMENDMENT. A decrease in acreage may also be a major amendment (due to flow rate) - check with permit writer)**
☐ The name of the city (or nearest city) has been provided
☐ The county where the disposal site is located is provided
☐ The longitude and latitude of the disposal site is provided
☐ The written flow of effluent from the facility to the effluent disposal site is adequately described
☐ The nearest watercourse to the disposal site is listed

Notes: _____

SECTION 12. MISCELLANEOUS INFORMATION

☒ Identified whether or not facility or discharge are on American Indian Land. If yes, we do not have permit authority.)
☒ For permits that allow sewage sludge disposal the location description is adequately described. For an existing permit, check to see that the location has not changed
☒ Indicated whether any former TCEQ employees who were paid for services regarding this application
☒ Fees or Penalties Owed: ☐ No ☒ Yes - See page 1 of checklist

SECTION 13 ATTACHMENTS

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

☒ An ORIGINAL or equivalent FULL-SIZED USGS 7.5-minute topographic map (8½ x 11 acceptable for amendment and renewal applications) is provided. **Electronic maps are okay, but should still include all required items and be high resolution to clearly show and label the following:**

☒ applicant's property boundary
☒ treatment facility boundaries
☒ point(s) of discharge (outfalls)
☒ discharge route for three miles downstream or until it reaches a classified segment
☐ effluent disposal site(s)
☐ pond(s)
☐ sludge disposal/land application site
☒ one-mile radius

All original or equivalent full-sized maps must clearly show:

☐ Color map
☐ Clear contour lines
☐ Upper left corner must identify map as USGS
☐ Lower left corner, datum & project information
☐ Bottom, magnetic declination
☐ Bottom, must show scale
☐ Bottom, identify contour intervals
☐ Bottom, national map accuracy std.
☐ Bottom, show State of TX and quad location
☐ Around map, lat and long coordinates
☐ Bottom, quadrangle name
☐ Bottom, must identify map date

Notes: _____

SECTION 14 SIGNATURE PAGE

Note: The person signing the application verifies that he or she is authorized, under 305.44, to sign the application. We must verify that their title meets the requirements, or they must provide documentation that signatory authority has been delegated.

☒ **Original Signature Page is provided. A scanned copy of the original signature page is acceptable.**
☒ **Signature must be properly notarized – check that signature date and notarized date are the same.**

Applicant	Co-Applicant	
☐	☐	City: Elected official or principle executive officer of the city may be public works director.
☐	☐	Individual: only the individual signs for himself/herself.
☐	☐	Partnership: General Partner or exec officer
☐	☐	Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary)
☒	☐	Utility District: at least the level of vice president, on Board of Directors or District Manager
☐	☐	Water Authority: Regional managers.
☐	☐	School Districts: at least level of the Assistant Superintendent or board members.
☐	☐	Governmental Agencies: Division Directors or Regional Directors.

☐ ☐ Trust: The trustee that has been identified in the trust agreement.
☐ ☐ Other: _____

Notes: _____

SECTION 15 or NEW FORM 20972 - PLAIN LANGUAGE SUMMARY (PLS)

☒ Plain Language Summary (PLS) in English is provided for all applications. Verify the customer's name, facility name and location, type of facility, and flow are consistent with the application and notice.
☒ Plain Language Summary for any alternative language listed in Section 8, Item E, No. 5 is provided, if applicable.
☒ Print to PDF the English PLS and save to the Application Record Admin Folder.
☒ Print to PDF the Spanish (or other alternative language) PLS and save to the Application Record Admin Folder.

Notes: _____

ADMIN REPORT 1.1 (For All New or Major Amendment Applications)
SECTION 1. AFFECTED LANDOWNER INFORMATION

Landowner Map:

☐ The applicant's complete property boundaries are delineated which includes boundaries of contiguous property owned by the applicant.

☐ For domestic facilities, show the buffer zone and identify all of the landowners whose property is located within the buffer zone.

☐ The property boundaries of the landowners surrounding the applicant's property have been clearly delineated on the map.

☐ The location of the facility within applicant's property is shown.

For TPDES applications:

☐ The point(s) of discharge is clearly identified on the map and the discharge route(s) is highlighted.

☐ The scale of map is provided to measure one mile downstream **or** if discharge is into a lake, bay estuary, or affected by tides, ½ mile up & down stream is measured.

☐ The property boundaries of landowners adjacent to the discharge route(s) for one mile downstream from the point of discharge have been clearly delineated and the route is clearly delineated. **OR** If discharge is into a lake, bay estuary, or affected by tides, the property boundaries of landowners ½ mile up & downstream and those property owners across the lake along the shore line that fall within a ½ mile radius of the point of discharge are clearly delineated on the map.

For TLAP applications (i.e., irrigation, evaporation, etc.):

☐ The boundaries of the disposal site are clearly shown on the map.

☐ The boundaries of all landowners surrounding the disposal site are shown.

For all TPDES/TLAP applications:

☐ Cross-referenced list of landowners is provided. Print page to PDF and save to the Application Record Admin Folder.
☐ Electronic document formatted for mailing labels (Avery 5160) or four sets of mailing labels were provided. Save to the Application Record Admin Folder.
☐ Source of landowners' info was provided.
☐ Provided response regarding permanent school fund land. Check GLO on contact sheet for Yes.

Notes: _____

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF) - NEW FORM 20971 FOR ALL TPDES APPLICATIONS

☒ SPIF is provided and complete/information matches application (TPDES only).
☒ SPIF Map is included or confirm USGS map is sufficient.
☒ Print to PDF the SPIF pages and map and save to the Application Record Admin Folder.

Notes: _____

TECHNICAL REPORT – MUNICIPAL/DOMESTIC APPLICATIONS

☐ **Minor Amendment *without* Renewal.** Review not required. Just make sure report is provided.

THE FOLLOWING ITEMS APPLY TO <u>ALL APPLICATIONS</u>:

☐ Technical Report 1.0, Section 1 – The permitted or proposed design flow is indicated. Flow for Final Phase is used to determine application fee and in the notice.

- ☐ If flow indicated is greater than permitted, a major amendment is required.
- ☐ If flow amount is less than permitted amount, confirm with applicant they want to reduce the flow.

Notes: _____

☐ The permit authorizes irrigation/evaporation/subsurface disposal method. Applies to all TLAP permits. ***For TPDES permits -check current permit "Other Requirements" to see if authorized.*** or if proposed, the information has been addressed in the technical report. Verify the acreage and flow match the permit. If the acreage has changed from what is currently permitted, a major amendment is required.

<u>The applicable worksheets must be completed:</u>

- ☐ Worksheet 3.0 - required for land disposal of effluent
- ☐ Worksheet 3.1 - required for land disposal (new and major amendment only)
- ☐ Worksheet 3.2 - required for subsurface land disposal (new and major amendment only)
- ☐ Worksheet 3.3 - required for subsurface area drip dispersal systems (SADDS) (new and major amendment); may be required for renewal on a case-by-case basis.

☐ SADDS Applications: Compliance history items must be completed for SADDS disposal. When the application is administratively complete, a copy of the application and a transmittal letter must be sent to the State Department of Health Services. See the SADDS Health Dept. Letter Template in the IP Review Docs folder.

☐ Worksheet 7.0 – required for SADD applications (new and major amendment only) - We do not review the form; we just make sure that it is submitted. If it is not submitted, request it in a NOD.

Notes: _____

☐ Sludge disposal and/or land application is authorized in the permit on property owned or under applicant's control. ***(Check current permit "Sludge Provisions" to see if authorized)***

☐ If facility is beneficially applying class B sludge on the same site as the facility, the applicant must submit the Beneficial Land Use of Sewage Sludge (Class B) Permit Application - Form No. 10451 (See Class B Sludge Permit checklist). The applicant must also submit the appropriate sludge application fee.

☐ If authorization is for sludge processing, storage, disposal, composting, marketing and distribution of sludge, sludge surface disposal, or sludge monofill or for temporary storage in sludge lagoons, the applicant must submit the Domestic Wastewater Permit Application: Sewage Sludge Technical Report – Form No. 10056.

Check for:

- ☐ required signatures (if applicable)
- ☐ site boundaries shown on USGS map
- ☐ site acreage (class B only)
- ☐ application area acreage (class B only)

<u>Notes</u>: If the applicant is disposing or land applying sludge on land owned or under their control, but it is not authorized in their permit or by any other TCEQ authorization, a major amendment is required.

If the application is for a new permit or major amendment, then verify the appropriate affected landowner requirements are met.

Notes: _____

WHEN APPLICATION IS NOT ADMINISTRATIVELY COMPLETE:

☐ Complete NOD. See Admin Review Process SOPs, starting with Section 5 – Admin (NORI) Packet Creation.

Notes: _____

WHEN APPLICATION IS ADMINISTRATIVELY COMPLETE:

NORI not required for minor amendment. Complete the Routing and Contact (list "n/a" for item about person responsible for publication of the notice)

☐ Complete NORI package. See Admin Review Process SOPs, starting with Section 5 – Admin (NORI) Packet Creation and NORI Notes.

Notes: _____

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

☐ Prepare SPIF forms (only for TPDES permits)
- ☐ checked application type
- ☐ entered county name
- ☐ entered administrative completeness date
- ☐ ensured permit number is on form
- ☐ *check agency receiving SPIF
  - ☐ **Minor amendments –** U.S. Fish and Wildlife and Texas Parks and Wildlife Department
  - ☐ **Renewals –** All agencies **BUT** Texas Historical Commission
  - ☐ **New and Major Amendments –** All agencies
- ☐ check that the segment number (if known) is entered in receiving water body information.
- ☐ On the accompanying map, delineate the discharge route in such a way that copies will reflect the highlighted discharge route.
- ☐ Make copies for the required agencies, including map, and place in the baskets outside cube 245.

***NOTE:** Copy of SPIFs not required for Houston – US Fish and Wildlife and Galveston-US Army Corps of Engineers. Reference SPIF Routing Sheet.

Notes: _____

Admin Complete PARIS Entry and Other Reminders

WQ Folder - Application Search

Application Summary Tab

- ☐ Verify application Summary and Details. Update as needed.

Admin Review Tab

- ☐ Admin Review Begin Date
- ☐ Admin Complete Date
- ☐ All NOD Sent, Response Received, Response Complete Dates
- ☐ SPIF Required (Yes/No)
- ☐ NORI Required (Yes/No)

Public Participation Tab –

- ☐ NORI – Date notice is filed with CCO
- ☐ Public Notice Details – Notice Contact Information

CR Folder – RE Search

AI Detail Screen – Verify AI Details and Physical Address. Update as needed.

View Contact List – Enter or Update Contact Information for these roles: See Updating Contacts in PARIS in IP Review Docs folder.

- ☐ Owner
- ☐ Applicant
- ☐ Technical
- ☐ Billing
- ☐ MER (TLAP only)
- ☐ Remove CN affiliation for MER contact (TLAP and TPDES)

View EPA ID from AI List

- ☐ View Customer List and verify CN is affiliated to EPA ID or add affiliation.

OTHER

- ☐ Copy NORI and PLS to H:\EVERYONEWQ\WQD Notices
- ☐ SADDS – Send letter and copy of complete application to Dept. of Health Services
- ☐ Email TXDOT if discharge is to a state highway right-of-way or roadside ditch

Notes: _____

APPLICATION. El Paso Water Utilities Public Service Board P.O Box 511, El Paso, Texas 79905, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010408009 (EPA I.D. No. TX0087149) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 17,500,000 gallons per day. The domestic wastewater facility is located at 701 Executive Center Boulevard, ~~near~~ in the city of El Paso, in El Paso County, Texas 79922. The discharge route is from the plant site to an unnamed arroyo, thence to Rio Grande above International Dam. TCEQ received this application on January 24, 2025. The permit application will be available for viewing and copying at International Water Quality Laboratory, Wastewater Division, 4100-L Delta Drive, El Paso, in El Paso County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-106.522222,31.794722&level=18

Further information may also be obtained from El Paso Water Utilities Public Service Board at the address stated above or by calling Mr. Angel Bustamante, Wastewater Systems Divisions Manager, at 915-487-7739.

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

Please submit the complete response, addressed to my attention by February 17, 2025. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4331 or by email at Brandon.Maldonado@tceq.texas.gov

Sincerely,

Brandon Maldonado

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

BM

Enclosure(s)

Brandon Maldonado

From: Brandon Maldonado
Sent: Monday, February 10, 2025 9:08 AM
To: Angel Bustamante
Cc: Robert Boyd
Subject: RE: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Good morning,

Your response to all items of the NOD are sufficient. I will now work to admin complete your application.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Angel Bustamante <abustamante@epwater.org>
Sent: Friday, February 7, 2025 6:16 PM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Cc: Robert Boyd <rboyd@h2o-terra.com>
Subject: Fw: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Hello Brandon. Please see below for info on water quality lab.

Angel.

Sent from my Verizon, Samsung Galaxy smartphone
Get Outlook for Android

From: Teresa Alcala <ttalcala@epwater.org>
Sent: Friday, February 7, 2025 5:04:55 PM
To: Angel Bustamante <abustamante@epwater.org>
Subject: RE: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Yes, it is available M-F from 08:00 am to 04:30 pm, but we don't have many visitors, mainly those coming for the FOG permit.

Thank you.

Teresa T. Alcala | Laboratory Services Manager
El Paso Water
International Water Quality Laboratory | 4100-L Delta Drive | El Paso, TX 79905-4306
915-594-5444 Office | 915-274-8586 Mobile | 915-594-5430 Fax

From: Angel Bustamante <abustamante@epwater.org>
Sent: Friday, February 7, 2025 3:51 PM
To: Teresa Alcala <ttalcala@epwater.org>
Subject: FW: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Hello Teresa. I hope you are having a good Friday.

Is our lab available to the public as below?

Angel Bustamante PE | Wastewater Systems Division Manager
El Paso Water
Wastewater Operations
915.594.5401 Telephone

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Friday, February 7, 2025 3:49 PM
To: Robert Boyd <rboyd@h2o-terra.com>; Angel Bustamante <abustamante@epwater.org>
Subject: RE: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Hello,

Sorry for the delayed response, your response for items 2 and 3 of the NOD are sufficient but you response for item 1 is only partially sufficient.

I was unable to confirm if International Water Quality Laboratory at 4100-L Delta Drive, has public access to view the public notice. Please confirm if the above location is available to the public. if so please let me know and the response will be sufficient, if not please provide an updated public viewing location.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Robert Boyd <rboyd@h2o-terra.com>
Sent: Tuesday, February 4, 2025 7:02 PM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>; abustamante@epwater.org
Subject: RE: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Good Afternoon, Mr. Maldonado.

Attached please find a Letter of Response to the TCEQ NOD letter dated 02/03/2025. Included as attachments to the NOD response are:

- Copy of check from EPWater to TCEQ covering delinquent fees (mailed to TCEQ 02/04/2025)
- Copy of Page 2 from the NOD letter with a proposed edit to the NORI text
- MS Word document with Spanish language translation of the NORI text

Please feel free to contact me if you have any questions regarding the responses, or if you required additional information.

Thank you,
-Robert

ROBERT G BOYD, PE

H2O TERRA, LLC
2020 E MILLS AVE
EL PASO, TEXAS 79901
(210) 872-5346

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Monday, 3 February, 2025 16:59
To: abustamante@epwater.org
Cc: Robert Boyd <rboyd@h2o-terra.com>
Subject: Application to Renew Permit No. WQ0010408009 - Notice of Deficiency Letter

Dear Mr. Angel Bustamante

The attached Notice of Deficiency (NOD) letter sent on **February 3, 2025,** requests additional information needed to declare the application administratively complete. Please send complete response to my attention by **February 17, 2025.**

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

TPDES PERMIT NO.
WQ0010408009
[For TCEQ office use only - EPA I.D. No. TX0087149]

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

This is a renewal that replaces TPDES Permit No. WQ0010408009 issued on December 17, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

El Paso Water Utilities Public Service Board

whose mailing address is

P.O. Box 511
El Paso, Texas 79961

is authorized to treat and discharge wastes from the John T. Hickerson Wastewater Treatment Facility, SIC Code 4952

located at 701 Executive Center Boulevard, in the City of El Paso, El Paso County, Texas 79922

to an unnamed arroyo, thence to Rio Grande above International Dam in Segment No. 2314 of the Rio Grande Basin

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

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

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance 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 17.5 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 24,306 gallons per minute.

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 (1,460)	15	25	35	One/day	Composite
Total Suspended Solids	15 (2,189)	25	40	60	One/day	Composite
Ammonia Nitrogen	4 (584)	6	10	15	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

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 day 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 once per day 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.

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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 6) 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 6) 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)(3)(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.

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 6) 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. 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 6) 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 6) and the Enforcement Division (MC 224), by September 30 of each year.

D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

E. 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.

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 6) 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 6) 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.

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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 A facility must be operated by a chief operator or an operator holding a Class A 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. The permittee shall maintain the capability of chlorinating the effluent in the event of an emergency situation if the ultraviolet light disinfection system is not functioning for any reason. No dechlorination of the effluent is required.

5. Sludge from each of the permitted facilities (Permit Nos. WQ0010408004, WQ0010408007, WQ0010408009, and WQ0010408010) utilizing the landfill shall be tested annually for total nitrogen, nitrate nitrogen, ammonia nitrogen, pH, phosphorus, potassium, cadmium, lead, copper and nickel. Sludge sampling shall be in units of milligrams per kilogram with the exception of pH which is to be in standard units.

   The results of sludge sampling shall be reported to the TCEQ Regional Office (MC Region 6 and the TCEQ Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

6. Unauthorized discharges as defined in Permit Conditions under item 2(g) on page 9 of this permit shall be reported under item 7a on page 7 of Monitoring and Reporting Requirements, except that each unauthorized discharge from the collection system which does not endanger human health, or safety, or the environment may be reported as a monthly summary provided in writing to the Regional Office (MC Region 6) and to the Manager, Water Section of the Enforcement Division (MC 149).

7. All automatic flow measuring or recording devices and all totalizing meters for measuring flows that are subject to permit requirements 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. The permittee 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 shall be readily available for review by a TCEQ representative for a period of three years.

8. 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, daily may be reduced to five/week. **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.

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 **El Paso Utilities Public Service Board's** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **October 20, 1982,** and modified on **July 21, 1995**, **August 30, 2002**, **October 1, 2010,** and **December 13, 2019** (nonsubstantial Streamlining Rule).

   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 six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per three 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 three 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 **December** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **December** 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						
			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]	NSCIU Certifications	Effluent Limits	Narrative Standards

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

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, reproduction, or growth of the test organisms.

   b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

      1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.

      2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

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

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 19%, 25%, 34%, 45%, and 60% effluent. The critical dilution, defined as 45% 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 effluent 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 toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test

species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee 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 fail to meet the following criteria:

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

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

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

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

3) 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.

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

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

6) 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 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), 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 3 will be used when making a determination of test acceptability.

8) 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 pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of 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 (i.e., 7 days); and

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

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 three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

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

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

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

sample collection must be documented in the full report.

5) The effluent samples may be dechlorinated after sample collection if the plant uses chlorination for disinfection when the UV disinfection system fails.

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 TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a “1” if the NOEC for reproduction is less than the critical dilution; otherwise, enter a “0.”

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.

9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.

10) For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.

12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant

sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I” (EPA/600/6-91/005F) 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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 evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO:_____

No. 2 FROM: _____ TO:_____

No. 3 FROM:_____ TO:_____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	19%	25%	34%	45%	60%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)
Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (45%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	19%	25%	34%	45%	60%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

   Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (45%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
19%							
25%							
34%							
45%							
60%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (45%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
19%									
25%									
34%									
45%									
60%									

* Coefficient of Variation = standard deviation x 100/mean

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (45%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: 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.

      A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. 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.

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.

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 samples may be dechlorinated after sample collection if the plant uses chlorination for disinfection when the UV disinfection system fails.

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.

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 a “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 a "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "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 a "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 specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances

beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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 implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

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. WQ0010408009, EPA I.D. No. TX0087149, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: El Paso Water Utilities Public Service Board
P.O. Box 511
El Paso, Texas 79961

Prepared By: Sumitra Pokharel
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4722

Date: August 4, 2025

Permit Action: Renewal

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 **three years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 17.5 million gallons per day (MGD). The existing wastewater treatment facility serves the northwest region of the Franklin Mountains.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 701 Executive Center Boulevard, in the City of El Paso, El Paso County, Texas 79922.

Outfall Location:

Outfall Number	Latitude	Longitude
001	31.788506 N	106.525283 W

The treated effluent is discharged to an unnamed arroyo, thence to Rio Grande above International Dam in Segment No. 2314 of the Rio Grande Basin. The unclassified receiving water use is minimal aquatic life use for unnamed arroyo. The designated uses for Segment No. 2314 are primary contact recreation, public water supply, and high

aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The John T. Hickerson Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix mode. Treatment units include two bar screens, two grit chambers, six aeration basins, six final clarifiers, four disk filter systems, a shallow sand filter, two draft units, two sludge storage tanks, three belt filter presses, a re-aeration basin, and five ultraviolet light (UV) disinfection system. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter to Cerro Alto Monofill Wastewater Treatment Facility, Permit No. WQ0004636000, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. 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 John T. Hickerson 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 December 2022 through December 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	6.85
$CBOD_5$, mg/l	4.2
TSS, mg/l	2.1
NH_3-N, mg/l	1.16
E. coli, CFU or MPN per 100 ml	2

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. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 17.5 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 24,306 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	1,460	15	25
TSS	15	2,189	25	40
NH_3-N	4	584	6	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN/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 day 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
$CBOD_5$	One/day
TSS	One/day
NH_3-N	One/day
DO	One/day
E. coli	Daily

B. 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 to Cerro Alto Monofill Wastewater Treatment Facility, Permit No. WQ0004636000, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. 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.

C. 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 October 20, 1982, and modified on July 21, 1995, August 30, 2002, October 1, 2010, and December 13, 2019 (nonsubstantial Streamlining Rule). 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 **December** 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

Substantial modifications will be approved in accordance with 40 CFR §403.18,

and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic 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 19%, 25%, 34%, 45%, and 60%. The low-flow effluent concentration (critical dilution) is defined as 45% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*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) Chronic static renewal 7-day larval survival and growth 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*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements have been updated to the draft permit.

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.

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).

A mixing zone evaluation for pH is included within Attachment A of this Fact Sheet. The evaluation has demonstrated that the technology-based pH limitations of 6.5 to 9.0 standard units will ensure compliance with the TSWQS pH criterion at the edge of the chronic mixing zone.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed arroyo, thence to Rio Grande Above International Dam in Segment No. 2314 of the Rio Grande Basin. The unclassified receiving water use is minimal aquatic life use for unnamed arroyo. The designated uses for Segment No. 2314 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. All determinations are preliminary and subject to additional review and/or revisions.

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. 2314 is currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA Section 303(d) list). The listing is for elevated levels of bacteria from the International Dam upstream to the Anthony Drain confluence (Assessment Unit [AU] 2314_01).
This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN) of *E. coli* per 100 ml has been added to the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 1,197 mg/l total dissolved solids (TDS), 293 mg/l sulfate, and 279.6 mg/l chloride present in the effluent. The segment criteria for Segment No. 2314 are 1,800 mg/l for TDS, 600 mg/l for sulfate, and 340 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 B 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 existing effluent limits have been reviewed for consistency with the State of Texas WQMP. The existing limits are contained in 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*" 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 are applied in the perennial freshwater stream.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 17.5 MGD and the 7-day, 2-year (7Q2) flow of 33.4 cfs for Rio Grande Above International Dam**,** the perennial stream. The following critical effluent percentages are being used:

Acute Effluent %: 100% Chronic Effluent %: 44.77%

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 lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent

limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include 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."* The segment values are 226 mg/l for hardness (as calcium carbonate), 112 mg/l chlorides, 7.8 standard units for pH, and 26 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 is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment C 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

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue (and drinking water) found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation (and drinking water) criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 17.5 MGD and the harmonic mean flow of 33.4 cfs for Rio Grande Above International Dam. The following critical effluent percentage is being used:

Human Health Effluent %: 40.73%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent

limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment C of this Fact Sheet.

(b) PERMIT ACTION

No analytical data is available for screening against water quality-based effluent limitations because the facility is not in operation. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 2314, 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 chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twenty-four chronic tests, with one demonstration of significant toxicity (i.e., one failure) by the water flea.

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 WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures by the fathead minnow, a determination of no RP was made. WET limits are not required, and this test species may be eligible for the testing frequency reduction after one year of quarterly testing.

With the failure by the water flea, a three-year permit will be issued in accordance with the methodology referenced above. This test species is ineligible for the testing frequency reduction.

(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 twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(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 Sumitra Pokharel at (512) 239-4722.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010408009 issued on December 17, 2020.

B. APPLICATION

Application received on January 24, 2025, and additional information received on July 18, 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 2024 CWA § 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the EPA on November 13, 2024.

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: pH Screening

Calculation of pH of a mixture of two flows. Based on the procedure in EPA's DESCON program (EPA, 1988. Technical Guidance on Supplementary Stream Design Conditions for Steady State Modeling. USEPA Office of Water, Washington D.C.)

El Paso Water Utilities Public Services Board
10408-009
2314, 001

INPUT			Source Data:
1. DILUTION FACTOR AT MIXING ZONE BOUNDARY	2.23	2.23	effluent % at edge of chronic mixing zone: **44.79**
			MGD in cfs: **27.1** 7Q2 flow: **33.4**
RECEIVING WATER CHARACTERISTICS			
2. Temperature (deg C):	20.00	30.00	Various temperatures tested
3. pH:	7.80	7.80	Seg 1242 pH (IPs): **7.8**
4. Alkalinity (mg CaCO3/L):	50.00	240.00	Hardness from IPs
EFFLUENT CHARACTERISTICS			
5. Temperature (deg C):	20.00	30.00	
6. pH:	6.00	9.00	
7. Alkalinity (mg CaCO3/L):	20.00 *	500.00	
OUTPUT			
1. IONIZATION CONSTANTS			
Upstream/Background pKa:	6.38	6.32	
Effluent pKa:	6.38	6.32	
2. IONIZATION FRACTIONS			
Upstream/Background Ionization Fraction:	0.96	0.97	
Effluent Ionization Fraction:	0.29	1.00	
3. TOTAL INORGANIC CARBON			
Upstream/Background Total Inorganic Carbon (mg CaCO3/L):	51.91	248.02	
Effluent Total Inorganic Carbon (mg CaCO3/L):	68.20	501.05	
4. CONDITIONS AT MIXING ZONE BOUNDARY			
Temperature (deg C):	20.00	30.00	
Alkalinity (mg CaCO3/L):	36.56	356.46	
Total Inorganic Carbon (mg CaCO3/L):	59.21	361.36	
pKa:	6.38	6.32	
pH at Mixing Zone Boundary:	**6.59**	**8.19**	Segment 1242 pH criteria: **6.5 to 9.0**

* Assume minimal total alkalinity at low effluent pH based on carbonate equilibrium chemistry of natural and treated waters

Attachment B: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	**El Paso Water Utilities Public Servies Board**
Permit Number, Outfall:	**10408-009**
Segment Number:	**2314**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**17.5**	MGD	
QS - Perennial stream harmonic mean flow	**39.40**	cfs	Critical conditions memo 6/1/2020
QE - Average effluent flow	**27.0765**	cfs	Calculated
CA - TDS - ambient segment concentration	**718**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**110**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**224**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**1800**	mg/L	2018 TSWQS, Appendix A
CC - chloride - segment criterion	**340**	mg/L	2018 TSWQS, Appendix A
CC - sulfate - segment criterion	**600**	mg/L	2018 TSWQS, Appendix A
CE - TDS - average effluent concentration	**1197**	mg/L	Permit application
CE - chloride - average effluent concentration	**279.6**	mg/L	Permit application
CE - sulfate - average effluent concentration	**293**	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	3374.46
Calculate the LTA	LTA = WLA * 0.93	3138.24
Calculate the daily average	Daily Avg. = LTA * 1.47	**4613.22**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**9759.94**
Calculate 70% of the daily average	70% of Daily Avg. =	3229.25
Calculate 85% of the daily average	85% of Daily Avg. =	3921.24

No permit limitations needed if:	**1197**	**≤**	**3229.25**		
Reporting needed if:	**1197**	**>**	**3229.25**	**but ≤**	**3921.24**

Permit limits may be needed if:	**1197**	**>**	**3921.24**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		674.68		
Calculate the LTA	LTA = WLA * 0.93		627.45		
Calculate the daily average	Daily Avg. = LTA * 1.47		**922.36**		
Calculate the daily maximum	Daily Max. = LTA * 3.11		**1951.38**		
Calculate 70% of the daily average	70% of Daily Avg. =		645.65		
Calculate 85% of the daily average	85% of Daily Avg. =		784.00		
No permit limitations needed if:	**279.6**	**≤**	**645.65**		
Reporting needed if:	**279.6**	**>**	**645.65**	**but ≤**	**784.00**
Permit limits may be needed if:	**279.6**	**>**	**784.00**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		1147.13		
Calculate the LTA	LTA = WLA * 0.93		1066.83		
Calculate the daily average	Daily Avg. = LTA * 1.47		**1568.24**		
Calculate the daily maximum	Daily Max. = LTA * 3.11		**3317.85**		
Calculate 70% of the daily average	70% of Daily Avg. =		1097.77		
Calculate 85% of the daily average	85% of Daily Avg. =		1333.01		
No permit limitations needed if:	**293**	**≤**	**1097.77**		
Reporting needed if:	**293**	**>**	**1097.77**	**but ≤**	**1333.01**
Permit limits may be needed if:	**293**	**>**	**1333.01**		

No permit limitations needed for sulfate

Attachment C: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	El Paso Water Utilities Public Service Board
TPDES Permit No.:	WQ0010408009
Outfall No.:	001
Prepared by:	Sumitra Pokharel
Date:	July 15, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	an unnamed arroyo
Perennial Stream/River within 3 Miles:	Rio Grande Above International Dam
Segment No.:	2314
TSS (mg/L):	26
pH (Standard Units):	7.8
Hardness (mg/L as $CaCO_3$):	226
Chloride (mg/L):	112
Effluent Flow for Aquatic Life (MGD):	17.5
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	33.4
% Effluent for Chronic Aquatic Life (Mixing Zone):	44.77
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	17.5
Harmonic Mean Flow (cfs) for perennial:	39.4
% Effluent for Human Health:	40.731
Human Health Criterion (select: PWS, FISH, or INC)	**PWS**

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	44367.96	0.464		1.00	Assumed
Cadmium	6.60	-1.13	100249.02	0.277		1.00	Assumed
Chromium (total)	6.52	-0.93	159983.35	0.194		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	159983.35	0.194		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	93954.96	0.290		1.00	Assumed
Lead	6.45	-0.80	207979.88	0.156		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	76465.44	0.335		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed

Silver	6.38	-1.03	83671.48	0.315		1.00	Assumed
Zinc	6.10	-0.70	128682.25	0.230		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	732	722	420	556	616	1304
Cadmium	18.9	0.433	68.3	3.49	39.2	2.69	3.94	8.35
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00893	1.38	0.00688	0.0101	0.0213
Chlorpyrifos	0.083	0.041	0.0830	0.0916	0.0476	0.0705	0.0699	0.147
Chromium (trivalent)	1111	145	5732	1665	3285	1282	1885	3988
Chromium (hexavalent)	15.7	10.6	15.7	23.7	9.00	18.2	13.2	27.9
Copper	30.6	19.0	105	146	60.4	113	88.7	187
Cyanide (free)	45.8	10.7	45.8	23.9	26.2	18.4	27.0	57.2
4,4'-DDT	1.1	0.001	1.10	0.00223	0.630	0.00172	0.00252	0.00534
Demeton	N/A	0.1	N/A	0.223	N/A	0.172	0.252	0.534
Diazinon	0.17	0.17	0.170	0.380	0.0974	0.292	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	44.2	34.0	34.1	49.9	105
Dieldrin	0.24	0.002	0.240	0.00447	0.138	0.00344	0.00505	0.0106
Diuron	210	70	210	156	120	120	176	374
Endosulfan I (*alpha*)	0.22	0.056	0.220	0.125	0.126	0.0963	0.141	0.299
Endosulfan II (*beta*)	0.22	0.056	0.220	0.125	0.126	0.0963	0.141	0.299
Endosulfan sulfate	0.22	0.056	0.220	0.125	0.126	0.0963	0.141	0.299
Endrin	0.086	0.002	0.0860	0.00447	0.0493	0.00344	0.00505	0.0106
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0223	N/A	0.0172	0.0252	0.0534
Heptachlor	0.52	0.004	0.520	0.00893	0.298	0.00688	0.0101	0.0213
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.179	0.645	0.138	0.202	0.427
Lead	155	6.04	993	86.4	569	66.5	97.8	206
Malathion	N/A	0.01	N/A	0.0223	N/A	0.0172	0.0252	0.0534
Mercury	2.4	1.3	2.40	2.90	1.38	2.24	2.02	4.27
Methoxychlor	N/A	0.03	N/A	0.0670	N/A	0.0516	0.0758	0.160
Mirex	N/A	0.001	N/A	0.00223	N/A	0.00172	0.00252	0.00534
Nickel	933	103.7	2789	692	1598	533	783	1656
Nonylphenol	28	6.6	28.0	14.7	16.0	11.4	16.6	35.3
Parathion (ethyl)	0.065	0.013	0.0650	0.0290	0.0372	0.0224	0.0328	0.0695
Pentachlorophenol	19.5	15.0	19.5	33.4	11.2	25.7	16.4	34.7
Phenanthrene	30	30	30.0	67.0	17.2	51.6	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0313	1.15	0.0241	0.0353	0.0748
Selenium	20	5	20.0	11.2	11.5	8.60	12.6	26.7
Silver	0.8	N/A	23.3	N/A	13.4	N/A	19.6	41.5
Toxaphene	0.78	0.0002	0.780	0.000447	0.447	0.000344	0.000505	0.00106
Tributyltin [TBT]	0.13	0.024	0.130	0.0536	0.0745	0.0413	0.0606	0.128
2,4,5 Trichlorophenol	136	64	136	143	77.9	110	114	242

Zinc	234	236	1016	2288	582	1762	855	1810

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	2.46	2.28	3.35	7.10
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000281	0.0000262	0.0000384	0.0000813
Anthracene	1109	1317	13170	2723	2532	3722	7875
Antimony	6	1071	10710	14.7	13.7	20.1	42.6
Arsenic	10	N/A	N/A	52.9	49.2	72.2	152
Barium	2000	N/A	N/A	4910	4567	6712	14202
Benzene	5	581	5810	12.3	11.4	16.7	35.5
Benzidine	0.0015	0.107	1.07	0.00368	0.00342	0.00503	0.0106
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0589	0.0548	0.0805	0.170
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00614	0.00571	0.00839	0.0177
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.00589	0.00548	0.00805	0.0170
Bis(2-chloroethyl)ether	0.60	42.83	428.3	1.47	1.37	2.01	4.26
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	14.7	13.7	20.1	42.6
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	25.0	23.3	34.2	72.4
Bromoform [Tribromomethane]	66.9	1060	10600	164	153	224	475
Cadmium	5	N/A	N/A	44.3	41.2	60.5	128
Carbon Tetrachloride	4.5	46	460	11.0	10.3	15.1	31.9
Chlordane	0.0025	0.0025	0.025	0.00614	0.00571	0.00839	0.0177
Chlorobenzene	100	2737	27370	246	228	335	710
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	18.4	17.1	25.1	53.2
Chloroform [Trichloromethane]	70	7697	76970	172	160	234	497
Chromium (hexavalent)	62	502	5020	152	142	208	440
Chrysene	2.45	2.52	25.2	6.02	5.59	8.22	17.3
Cresols [Methylphenols]	1041	9301	93010	2556	2377	3494	7392
Cyanide (free)	200	N/A	N/A	491	457	671	1420
4,4'-DDD	0.002	0.002	0.02	0.00491	0.00457	0.00671	0.0142
4,4'-DDE	0.00013	0.00013	0.0013	0.000319	0.000297	0.000436	0.000923
4,4'-DDT	0.0004	0.0004	0.004	0.000982	0.000913	0.00134	0.00284
2,4'-D	70	N/A	N/A	172	160	234	497
Danitol [Fenpropathrin]	262	473	4730	643	598	879	1860
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	0.417	0.388	0.570	1.20
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	791	735	1080	2286
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	1473	1370	2013	4260
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	184	171	251	532
3,3'-Dichlorobenzidine	0.79	2.24	22.4	1.94	1.80	2.65	5.60
1,2-Dichloroethane	5	364	3640	12.3	11.4	16.7	35.5
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	17.2	16.0	23.4	49.7
Dichloromethane [Methylene Chloride]	5	13333	133330	12.3	11.4	16.7	35.5
1,2-Dichloropropane	5	259	2590	12.3	11.4	16.7	35.5
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	6.87	6.39	9.39	19.8

Dicofol [Kelthane]	0.30	0.30	3	0.737	0.685	1.00	2.13
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000491	0.0000457	0.0000671	0.000142
2,4-Dimethylphenol	444	8436	84360	1090	1014	1490	3152
Di-*n*-Butyl Phthalate	88.9	92.4	924	218	203	298	631
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.92E-07	1.78E-07	2.61E-07	5.53E-07
Endrin	0.02	0.02	0.2	0.0491	0.0457	0.0671	0.142
Epichlorohydrin	53.5	2013	20130	131	122	179	379
Ethylbenzene	700	1867	18670	1719	1598	2349	4970
Ethylene Glycol	46744	1.68E+07	1.68E+08	114763	106730	156892	331929
Fluoride	4000	N/A	N/A	9821	9133	13425	28404
Heptachlor	8.0E-05	0.0001	0.001	0.000196	0.000183	0.000268	0.000568
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000712	0.000662	0.000973	0.00205
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00167	0.00155	0.00228	0.00482
Hexachlorobutadiene	0.21	0.22	2.2	0.516	0.479	0.704	1.49
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0192	0.0178	0.0261	0.0553
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.368	0.342	0.503	1.06
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.491	0.457	0.671	1.42
Hexachlorocyclopentadiene	10.7	11.6	116	26.3	24.4	35.9	75.9
Hexachloroethane	1.84	2.33	23.3	4.52	4.20	6.17	13.0
Hexachlorophene	2.05	2.90	29	5.03	4.68	6.88	14.5
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	2681	2493	3665	7754
Lead	1.15	3.83	38.3	18.1	16.8	24.7	52.3
Mercury	0.0122	0.0122	0.122	0.0300	0.0279	0.0409	0.0866
Methoxychlor	2.92	3.0	30	7.17	6.67	9.80	20.7
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	34041	31658	46536	98455
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	36.8	34.2	50.3	106
Nickel	332	1140	11400	2436	2265	3329	7044
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	24551	22833	33564	71010
Nitrobenzene	45.7	1873	18730	112	104	153	324
N-Nitrosodiethylamine	0.0037	2.1	21	0.00908	0.00845	0.0124	0.0262
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	0.292	0.272	0.399	0.845
Pentachlorobenzene	0.348	0.355	3.55	0.854	0.795	1.16	2.47
Pentachlorophenol	0.22	0.29	2.9	0.540	0.502	0.738	1.56
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00157	0.00146	0.00214	0.00454
Pyridine	23	947	9470	56.5	52.5	77.1	163
Selenium	50	N/A	N/A	123	114	167	355
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.565	0.525	0.771	1.63
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	4.03	3.74	5.50	11.6
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	12.3	11.4	16.7	35.5
Thallium	0.12	0.23	2.3	0.295	0.274	0.402	0.852
Toluene	1000	N/A	N/A	2455	2283	3356	7101
Toxaphene	0.011	0.011	0.11	0.0270	0.0251	0.0369	0.0781
2,4,5-TP [Silvex]	50	369	3690	123	114	167	355
1,1,1-Trichloroethane	200	784354	7843540	491	457	671	1420
1,1,2-Trichloroethane	5	166	1660	12.3	11.4	16.7	35.5
Trichloroethylene [Trichloroethene]	5	71.9	719	12.3	11.4	16.7	35.5
2,4,5-Trichlorophenol	1039	1867	18670	2551	2372	3487	7377
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	196	183	268	568
Vinyl Chloride	0.23	16.5	165	0.565	0.525	0.771	1.63

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	431	524
Cadmium	2.76	3.35
Carbaryl	1.17	1.43
Chlordane	0.00707	0.00859
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	1319	1602
Chromium (hexavalent)	9.25	11.2
Copper	62.1	75.4
Cyanide (free)	18.9	22.9
4,4'-DDT	0.00176	0.00214
Demeton	0.176	0.214
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.00353	0.00429
Diuron	123	150
Endosulfan I (*alpha*)	0.0991	0.120
Endosulfan II (*beta*)	0.0991	0.120
Endosulfan sulfate	0.0991	0.120
Endrin	0.00353	0.00429
Guthion [Azinphos Methyl]	0.0176	0.0214
Heptachlor	0.00707	0.00859
Hexachlorocyclohexane (*gamma*) [Lindane]	0.141	0.171
Lead	68.4	83.1
Malathion	0.0176	0.0214
Mercury	1.41	1.71
Methoxychlor	0.0530	0.0644
Mirex	0.00176	0.00214
Nickel	548	665
Nonylphenol	11.6	14.1
Parathion (ethyl)	0.0230	0.0279
Pentachlorophenol	11.4	13.9
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.0247	0.0300
Selenium	8.84	10.7
Silver	13.7	16.6
Toxaphene	0.000353	0.000429
Tributyltin [TBT]	0.0424	0.0515
2,4,5 Trichlorophenol	80.1	97.3
Zinc	599	727

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2.34	2.85
Aldrin	0.0000269	0.0000326
Anthracene	2605	3163
Antimony	14.0	17.1

Arsenic	50.5	61.4
Barium	4698	5705
Benzene	11.7	14.2
Benzidine	0.00352	0.00427
Benzo(*a*)anthracene	0.0563	0.0684
Benzo(*a*)pyrene	0.00587	0.00713
Bis(chloromethyl)ether	0.00563	0.00684
Bis(2-chloroethyl)ether	1.40	1.71
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	14.0	17.1
Bromodichloromethane [Dichlorobromomethane]	23.9	29.1
Bromoform [Tribromomethane]	157	190
Cadmium	42.3	51.4
Carbon Tetrachloride	10.5	12.8
Chlordane	0.00587	0.00713
Chlorobenzene	234	285
Chlorodibromomethane [Dibromochloromethane]	17.6	21.3
Chloroform [Trichloromethane]	164	199
Chromium (hexavalent)	145	176
Chrysene	5.75	6.98
Cresols [Methylphenols]	2445	2969
Cyanide (free)	469	570
4,4'-DDD	0.00469	0.00570
4,4'-DDE	0.000305	0.000370
4,4'-DDT	0.000939	0.00114
2,4'-D	164	199
Danitol [Fenpropathrin]	615	747
1,2-Dibromoethane [Ethylene Dibromide]	0.399	0.485
m-Dichlorobenzene [1,3-Dichlorobenzene]	756	918
o-Dichlorobenzene [1,2-Dichlorobenzene]	1409	1711
p-Dichlorobenzene [1,4-Dichlorobenzene]	176	213
3,3'-Dichlorobenzidine	1.85	2.25
1,2-Dichloroethane	11.7	14.2
1,1-Dichloroethylene [1,1-Dichloroethene]	16.4	19.9
Dichloromethane [Methylene Chloride]	11.7	14.2
1,2-Dichloropropane	11.7	14.2
1,3-Dichloropropene [1,3-Dichloropropylene]	6.57	7.98
Dicofol [Kelthane]	0.704	0.855
Dieldrin	0.0000469	0.0000570
2,4-Dimethylphenol	1043	1266
Di-*n*-Butyl Phthalate	208	253
Dioxins/Furans [TCDD Equivalents]	1.83E-07	2.22E-07
Endrin	0.0469	0.0570
Epichlorohydrin	125	152
Ethylbenzene	1644	1997
Ethylene Glycol	109824	133358
Fluoride	9397	11411
Heptachlor	0.000187	0.000228
Heptachlor Epoxide	0.000681	0.000827
Hexachlorobenzene	0.00159	0.00194
Hexachlorobutadiene	0.493	0.599
Hexachlorocyclohexane (*alpha*)	0.0183	0.0222
Hexachlorocyclohexane (*beta*)	0.352	0.427
Hexachlorocyclohexane (*gamma*) [Lindane]	0.469	0.570

Hexachlorocyclopentadiene	25.1	30.5
Hexachloroethane	4.32	5.24
Hexachlorophene	4.81	5.84
4,4'-Isopropylidenediphenol [Bisphenol A]	2565	3115
Lead	17.3	21.0
Mercury	0.0286	0.0348
Methoxychlor	6.86	8.33
Methyl Ethyl Ketone	32575	39556
Methyl *tert*-butyl ether [MTBE]	35.2	42.7
Nickel	2330	2830
Nitrate-Nitrogen (as Total Nitrogen)	23494	28529
Nitrobenzene	107	130
N-Nitrosodiethylamine	0.00869	0.0105
N-Nitroso-di-*n*-Butylamine	0.279	0.339
Pentachlorobenzene	0.817	0.992
Pentachlorophenol	0.516	0.627
Polychlorinated Biphenyls [PCBs]	0.00150	0.00182
Pyridine	54.0	65.6
Selenium	117	142
1,2,4,5-Tetrachlorobenzene	0.540	0.656
1,1,2,2-Tetrachloroethane	3.85	4.67
Tetrachloroethylene [Tetrachloroethylene]	11.7	14.2
Thallium	0.281	0.342
Toluene	2349	2852
Toxaphene	0.0258	0.0313
2,4,5-TP [Silvex]	117	142
1,1,1-Trichloroethane	469	570
1,1,2-Trichloroethane	11.7	14.2
Trichloroethylene [Trichloroethene]	11.7	14.2
2,4,5-Trichlorophenol	2441	2964
TTHM [Sum of Total Trihalomethanes]	187	228
Vinyl Chloride	0.540	0.656