



Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
 - English
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 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
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 3. Second notice (NAPD-Notice of Preliminary Decision)
 - English
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 4. Application materials *
 5. Draft permit *
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-



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
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3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
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4. Materiales de la solicitud **
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6. Resumen técnico u hoja de datos **



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

San Antonio River Authority (CN600790620) operates Upper Martinez WWTP (RN101514347), a Wastewater Treatment Facility. The facility is located at 8203 Binz-Engleman Rd, in San Antonio, Bexar County, Texas 78244. This application is for a renewal to discharge 2,210,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N) and Escherichia coli (E.coli). Domestic wastewater is treated by mechanical bar screen, aeration basins, final clarifiers and ultraviolet disinfection.

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.

San Antonio River Authority (CN600790620) opera Upper Martinez WWTP (RN101514347), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 8203 Binz-Engleman Rd, en San Antonio, Condado de Bexar, Texas 78244. Esta solicitud es para un renovacion para descargar 2,210,000 galones por dia de aguas residuals domesticas tratadas.

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquímica carbonosa de oxígeno (CBOD₅), solidos totalmente suspendidos (TSS), nitrogeno ammoniacal (NH₃-N y Escherichia coli (E.coli). Aguas residuales domesictas. está tratado por reja mecanica, tanques de aireacion, clarificadores finales y desinfeccion ultravioleta.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010749003

APPLICATION. San Antonio River Authority, 100 East Guenther, San Antonio, Texas 78204, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010749003 (EPA I.D. No. TX0024082) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,210,000 gallons per day. The domestic wastewater treatment facility is located at 8203 Binz Engleman Road, near the city of San Antonio, in Bexar County, Texas 78244. The discharge route is from the plant site to Martinez Creek; thence to Lower Cibolo Creek. TCEQ received this application on September 6, 2024. The permit application will be available for viewing and copying at San Antonio River Authority, Utilities Administration Building, 1720 Farm-to-Market Road 1516 North, Converse, in Bexar County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.327777,29.468888&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 San Antonio River Authority at the address stated above or by calling Mr. Ernest Munoz, Quality Control Operator, at 210-302-4200.

Issuance Date: September 19, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0010749003

SOLICITUD. San Antonio River Authority, 100 East Guenther, San Antonio, Texas 78204, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010749003 (EPA I.D. No. TX0024082) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 2,210,000 galones por día. La planta está ubicada en 8203 Binz Engleman Road en San Antonio en el Condado de Bexar, Texas. La ruta de descarga es del sitio de la planta a Martinez Creek; luego descarga a Lower Cibolo Creek. La TCEQ recibió esta solicitud el 6 de Septiembre, 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 1720 FM 1516 North, Converse, Texas 78109, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los**

comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de 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 específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión

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

También se puede obtener información adicional del San Antonio River Authority a la dirección indicada arriba o llamando a Ernest Munoz, Quality Control Operator al 210-302-4200.

Fecha de emission: 19 de septiembre de 2024

Texas Commission on Environmental Quality



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

RENEWAL

PERMIT NO. WQ0010749003

APPLICATION AND PRELIMINARY DECISION. San Antonio River Authority, 100 East Guenther, San Antonio, Texas 78204, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010749003, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,210,000 gallons per day. TCEQ received this application on September 6, 2024.

The facility is located at 8203 Binz Engleman Road, Bexar County, Texas 78244. The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water use is limited aquatic life use for Martinez Creek. The designated uses for Segment No. 1902 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=-98.327777,29.468888&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 San Antonio River Authority, Utilities Administration Building, 1720 Farm-to-Market Road 1516 North, Converse, in Bexar County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/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 San Antonio River Authority at the address stated above or by calling Mr. Ernest Munoz, Quality Control Operator, at 210-302-4200.

Issuance Date: March 17, 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. WQ0010749003

SOLICITUD Y DECISIÓN PRELIMINAR. San Antonio River Authority, 100 East Guenther, San Antonio, Texas 78204, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación del Permiso No. WQ0010749003 del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES), para autorizar descarga de aguas residuales domesticas tratadas con un caudal medio anual que no supere los 2,210,000 galones por día. La TCEQ recibió esta solicitud el 6 de Septiembre. 2024.

La planta está ubicada en 8203 Binz-Engleman Road, en el Condado de Bexar, Texas 78244. El efluente tratado es descargado al arroyo Martinez, de allí a el arroyo Lower Cibolo en el Segmento No. 1902 de la Cuenca del Río de San Antonio. Los usos no clasificados de las aguas receptoras son limitados usos de la vida acuática para el arroyo Martinez. Los usos designados para el Segmento No.1902 son elevados de vida acuática, abastecimiento de agua potable, y recreación de contacto primario.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en San Antonio River Authority, Utilities Administration Building, 1720 Farm-to-Market Road 1516 North, Converse, en el condado de Bexar, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.327777,29.468888&level=18>

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-notice>.

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 todos 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 por qué 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 para descargar aguas residuales sin proveer una oportunidad de 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 TCEQ para consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de 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 específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. 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.

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 a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del San Antonio River Authority a la dirección indicada arriba o llamando a Ernest Muñoz, Quality Control Operator, al (210) 302-4200.

Fecha de emission: 17 de marzo de 2025



TPDES PERMIT NO.
WQ0010749003
*[For TCEQ office use only - EPA I.D.
No. TX0024082]*

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

This is a renewal that replaces TPDES
Permit No. WQ0010749003 issued on
March 18, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

San Antonio River Authority

whose mailing address is

100 East Guenther
San Antonio, Texas 78204

is authorized to treat and discharge wastes from the Upper Martinez Creek Wastewater
Treatment Facility, SIC Code 4952

located at 8203 Binz Engleman Road, Bexar County, Texas 78244

to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River
Basin

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

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

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall 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 2.21 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,604 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)	7 (129)	12	22	32	Two/week	Composite
Total Suspended Solids	12 (221)	20	40	60	Two/week	Composite
Ammonia Nitrogen	2 (37)	5	10	15	Two/week	Composite
<i>E. coli</i> , 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 5.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

	7-day Minimum	30-day Average	Measurement Frequency	Sample Type
Lethal Whole Effluent Toxicity (WET) limit 100% (Parameter 51710) <i>Ceriodaphnia dubia</i> (3-brood chronic NOEC ¹)	100%	100%	1/quarter	Composite
Sublethal Whole Effluent Toxicity (WET) limit 80% (Parameter 51710) <i>Ceriodaphnia dubia</i> (3-brood chronic NOEC ¹)	80%	80%	1/quarter	Composite
Lethal Whole Effluent Toxicity (WET) limit 100% (Parameter 51714) <i>Pimephales promelas</i> (7-day chronic NOEC ¹)	100%	100%	1/quarter	Composite
Sublethal Whole Effluent Toxicity (WET) limit 80% (Parameter 51714) <i>Pimephales promelas</i> (7-day chronic NOEC ¹)	80%	80%	1/quarter	Composite

¹ The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. A significant effect is defined as a statistically significant difference between a specified effluent dilution and the control for toxicity (lethal or sublethal effects, whichever is specified).

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 n th 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 Compliance Monitoring Team of 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 Compliance

Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 13) 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. This annual report shall be submitted to the TCEQ Regional Office (MC Region 13) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

<u>Pollutant</u>	<u>Ceiling Concentration</u> <u>(Milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

- a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids

criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

<u>Amount of biosolids (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
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 landfill) 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

<u>Pollutant</u>	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

<u>Pollutant</u>	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 13) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested annually, in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 13) 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 13) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 13) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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 report the following information annually to the TCEQ Regional Office (MC Region 13) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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 B facility must be operated by a chief operator or an operator holding a Class B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.
3. There is no mixing zone established for this discharge to an intermittent stream with perennial pools. Chronic toxic criteria apply at the point of discharge.
4. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, 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 following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].
3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were 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.

Any 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 July 2007

BIOMONITORING REQUIREMENTS**CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER**

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

1. **Scope, Frequency, and Methodology**

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, 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 32%, 42%, 56%, 80%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. **Testing Frequency Reduction**
 - 1) If none of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per year.
 - 2) If one or more of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee shall continue quarterly

testing for that test species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee will resume a quarterly testing frequency until this permit is reissued.

- e. The lethal No Observed Effect Concentration (NOEC) effluent limitation of not less than 100% and the sublethal NOEC of not less than 80% (see the EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS section) are effective at the permit issue date for both test species.
- f. If a test species fails to pass the sublethal endpoint at the 80% effluent concentration or the lethal effluent limitation at 100% effluent limitation, the testing frequency will increase to monthly for that test species until such time compliance with the NOEC effluent limitation is demonstrated for a period of three consecutive months, at which time the quarterly testing frequency may be resumed.

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 (0% effluent).
- 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 shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
 - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
 - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter 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 "o."
 - 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 "o."
 - 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. The permittee shall report the lethal and sublethal WET values for the 30-day average and the 7-day minimum under Parameter No. 51710 for the water flea and under Parameter No. 51714 for the fathead minnow for the appropriate reporting period. If more than one valid test was performed during the reporting period, the NOECs for that species will be averaged arithmetically and reported as the 30-day average. The 7-day minimum value submitted should reflect the lowest NOEC results for each test species during the reporting period.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Date Time Date Time
 Composites No. 1 FROM: _____ TO: _____
 Collected 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%	32%	42%	56%	80%	100%
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 (100%): _____ YES _____ NO

PERCENT SURVIVAL

Time of Reading	Percent effluent					
	0%	32%	42%	56%	80%	100%
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 (100%): _____ 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

No. 1 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____

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%							
32%							
42%							
56%							
80%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

- 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 (100%): _____ 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%									
32%									
42%									
56%									
80%									
100%									

* 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 (100%): _____ 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 whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 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. Except as discussed in item 2.b., 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 (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted

to comply with the minimum testing frequency defined in item b.

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 item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution 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 sample shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- 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. WQ0010749003, EPA I.D. No. TX0024082, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: San Antonio River Authority
100 East Guenther
San Antonio, Texas 78204

Prepared By: Sonia Bhuiya
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-1205

Date: March 5, 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 **five 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 2.21 million gallons per day (MGD). The existing wastewater treatment facility serves the Upper Martinez Creek.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 8203 Binz Engleman Road, Bexar County, Texas 78244.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.468874 N	98.328309 W

The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water use is limited aquatic life use for Martinez Creek. The designated uses for Segment No. 1902 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Upper Martinez Creek Wastewater Treatment Facility is The Upper Martinez Creek Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include bar screens, grit chamber, two oxidation ditches, one aeration basin, two final clarifiers, a sludge holding basin, a belt filter press, a lime stabilization unit, and a UV disinfection chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter to Martinez II Wastewater Treatment Facility, Permit No. WQ0010749004, 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 Upper Martinez Creek WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period August 2019 through August 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 (CBOD₅), total suspended solids (TSS), and ammonia nitrogen (NH₃-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.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	1.48
CBOD ₅ , mg/l	2.12
TSS, mg/l	1.74
NH ₃ -N, mg/l	0.63
<i>E. coli</i> , CFU or MPN per 100 ml	1

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 2.21 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,604 gallons per minute.

San Antonio River Authority TPDES Permit No. WQ0010749003
Fact Sheet and Executive Director's Preliminary Decision

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD ₅	7	129	12	22
TSS	12	221	20	40
NH ₃ -N	2	37	5	10
DO (minimum)	5.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	N/A	399

Whole Effluent Toxicity (WET) Limit

Lethal WET limit 100% (Parameter 51710)

Ceriodaphnia dubia

(3-brood chronic NOEC ¹)	100%	N/A	100%
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Sublethal WET limit 80% (Parameter 51710)

Ceriodaphnia dubia

(3-brood chronic NOEC ¹)	80%	N/A	80%
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Lethal WET limit 100% (Parameter 51714)

Pimephales promelas

(7-day chronic NOEC ¹)	100%	N/A	100%
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Sublethal WET limit 80% (Parameter 51714)

Pimephales promelas

(7-day chronic NOEC ¹)	80%	N/A	80%
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¹ The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. A significant effect is defined as a statistically significant difference between a specified effluent dilution and the control for toxicity (lethal or sublethal effects, whichever is specified).

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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
DO	Two/week
<i>E. coli</i>	Daily
WET Limit	One/quarter

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 Martinez II Wastewater Treatment Facility, Permit No. WQ0010749004, 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 Code of Federal Regulations (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.

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 32%, 42%, 56%, 80%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) 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 quarter:
 - (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

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water use is minimal aquatic life use for Martinez Creek. The designated uses for Segment No. 1902 are primary contact recreation 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) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. 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. 1902 is currently listed on the State's inventory of impaired and threatened waters, the 2022 Clean Water Act Section 303(d) list. The listing is for bacteria in the water from the confluence with the Lower San Antonio River in Karnes County upstream to a point 100 meters (110 yards) downstream of Interstate Highway 10 in Bexar/Guadalupe County (AUs 1902_01 through 1902_05). Additionally, Martinez Creek (1902A) is currently listed for bacteria in water from the confluence with Lower Cibolo Creek upstream to the confluence with Salitrillo Creek (AU 1902A_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment.

Based on a dissolved solids screening, no additional limits or monitoring requirements are needed for TDS, chloride, or sulfate.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

There is no mixing zone for this discharge directly to an intermittent stream with perennial pools; acute and chronic freshwater criteria apply at the end of pipe. The following critical effluent percentages are being used:

Acute Effluent %	100%	Chronic Effluent %	100%
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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 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical

considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include 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 269 mg/l for hardness (as calcium carbonate), 98 mg/l for chlorides, 7.7 standard units for pH, and 6 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 A 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 found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). The discharge point is to an intermittent stream with perennial pools or to an intermittent stream within 3 miles upstream of an intermittent stream with perennial pools. Human health screening using incidental freshwater fish tissue criteria (= 10 X freshwater fish tissue criteria) is applicable due to the perennial pools that support incidental freshwater fisheries. TCEQ uses the mass balance equation to estimate dilution in the intermittent stream with perennial pools during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 0 MGD and the harmonic mean flow of 2.01 cfs for Martinez Creek. The following effluent percentage is being used:

Human Health Effluent %	62.98%
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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 A of this Fact Sheet.

(b) PERMIT ACTION

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. 1902, which receives the discharge from this facility, is designated as a public water supply. The screening procedure used to calculate water quality-based effluent limitations and determine the need for effluent limitations or monitoring requirements is identical to the procedure outlined in the aquatic organism bioaccumulation section of this fact sheet. Criteria used in the calculation of water quality-based effluent limitations for the protection of a drinking water supply are outlined in Table 2 (Water and Fish) of the Texas Surface Water Quality Standards (30 TAC Chapter 307). These criteria are developed from either drinking water maximum contaminant level (MCL) criteria outlined in 30 TAC Chapter 290 or from the combined human health effects of exposure to consumption of fish tissue and ingestion of drinking water.

(b) PERMIT ACTION

Criteria in the "Water and Fish" section of Table 2 do not distinguish if the criteria is based on a drinking water standard or the combined effects of ingestion of drinking water and fish tissue. Effluent limitations or monitoring requirements to protect the drinking water supply (and other human health effects) were previously calculated and outlined in the aquatic organism bioaccumulation criteria section of this fact sheet.

(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.

REASONABLE POTENTIAL (RP) DETERMINATION

The lethal and sublethal WET limits for both test species are retained. Therefore, no RP determination was performed. In keeping with EPA Region 6 policy, which acknowledges the difficulty in identifying toxicants responsible for sublethal effects at high dilutions, the sublethal WET limit will be implemented at the 80% effluent dilution instead of at the critical dilution of 100%.

With zero failures by the fathead minnow in the past three years, this test species may be eligible for the testing frequency reduction after one year of quarterly testing. Due to a failure (WET limit violation) by the water flea in the past three years, this test species is not eligible 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 lethality (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 Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010749003 issued on March 18, 2020.

B. APPLICATION

Application received on September 6, 2024, and additional information received on September 19, 2024.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

San Antonio River Authority TPDES Permit No. WQ0010749003
Fact Sheet and Executive Director's Preliminary Decision

Attachment A: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #7 - INTERMITTENT STREAM WITH PERENNIAL POOLS

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, Incidental Fishery

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	San Antonio River Authority
TPDES Permit No.:	WQ0010749003
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	March 5, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Martinez Creek
Segment No.:	1902
TSS (mg/L):	6
pH (Standard Units):	7.7
Hardness (mg/L as CaCO ₃):	269
Chloride (mg/L):	98
Effluent Flow for Aquatic Life (MGD):	2.21
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life:	100
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	2.21
Harmonic Mean Flow (cfs):	2.01
% Effluent for Human Health:	62.979

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

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	#####	Assumed
Arsenic	5.68	-0.73	129404.56	0.563		#####	Assumed
Cadmium	6.60	-1.13	525640.82	0.241		#####	Assumed
Chromium (total)	6.52	-0.93	625632.55	0.210		#####	Assumed
Chromium (trivalent)	6.52	-0.93	625632.55	0.210		#####	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	#####	Assumed
Copper	6.02	-0.74	278078.92	0.375		#####	Assumed
Lead	6.45	-0.80	672169.81	0.199		#####	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	#####	Assumed
Nickel	5.69	-0.57	176381.81	0.486		#####	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	#####	Assumed
Silver	6.38	-1.03	378882.21	0.306		#####	Assumed
Zinc	6.10	-0.70	359165.10	0.317		#####	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLA_a (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTA_a (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
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Aldrin	3.0	N/A	3.0	N/A	1.72	N/A	2.53	5.35
Aluminum	991	N/A	991	N/A	568	N/A	835	1766
Arsenic	340	150	604	266	346	205	302	638
Cadmium	22.4	0.489	93.2	2.03	53.4	1.56	2.30	4.86
Carbaryl	2.0	N/A	2.0	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.4	0.004	1.38	#####	0.0045	0.0096
Chlorpyrifos	0.083	0.041	0.083	0.041	0.048	0.032	0.046	0.098
Chromium (+3)	1281	167	6091	792	3490	610	897	1897
Chromium (+6)	15.7	10.6	15.7	10.6	9.00	8.16	12.0	25.4
Copper	36.1	22.1	96.3	58.9	55.2	45.3	66.6	140.9
Cyanide (free)	45.8	10.7	45.8	10.7	26.2	8.24	12.1	25.6
4,4'-DDT	1.1	0.001	1.1	0.001	0.630	#####	0.0011	0.0024
Demeton	N/A	0.1	N/A	0.1	N/A	0.077	0.113	0.239
Diazinon	0.17	0.17	0.17	0.17	0.097	0.131	0.143	0.303
Dicofol	59.3	19.8	59.3	19.8	34.0	15.2	22.4	47.4
Dieldrin	0.24	0.002	0.24	0.002	0.138	#####	0.0023	0.0048
Diuron	210	70	210	70	120	53.9	79.2	168
Endosulfan I (alpha)	0.22	0.056	0.22	0.056	0.126	0.043	0.063	0.134
Endosulfan II (beta)	0.22	0.056	0.22	0.056	0.126	0.043	0.063	0.134
Endosulfan sulfate	0.22	0.056	0.22	0.056	0.126	0.043	0.063	0.134
Endrin	0.086	0.002	0.086	0.002	0.049	#####	0.0023	0.0048
Guthion	N/A	0.01	N/A	0.01	N/A	#####	0.011	0.024
Heptachlor	0.52	0.004	0.52	0.004	0.298	#####	0.0045	0.0096
Hexachlorocyclohexane (Lindane)	1.126	0.08	1.126	0.08	0.645	0.062	0.091	0.192
Lead	186	7.25	937	36.5	537	28.1	41.3	87.4
Malathion	N/A	0.01	N/A	0.01	N/A	#####	0.011	0.024
Mercury	2.4	1.3	2.4	1.3	1.38	1.00	1.47	3.11
Methoxychlor	N/A	0.03	N/A	0.03	N/A	0.023	0.034	0.072
Mirex	N/A	0.001	N/A	0.001	N/A	#####	0.0011	0.0024
Nickel	1082	120.1	2226	247	1276	190	280	592
Nonylphenol	28	6.6	28	6.6	16.0	5.08	7.47	15.8
Parathion (ethyl)	0.065	0.013	0.065	0.013	0.037	0.010	0.015	0.031
Pentachlorophenol	17.6	13.5	17.6	13.5	10.1	10.4	14.8	31.4
Phenanthrene	30	30	30	30	17.2	23.1	25.3	53.5
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.0	0.014	1.15	0.011	0.016	0.034
Selenium	20	5	20	5	11.5	3.85	5.66	12.0
Silver	0.8	N/A	21.30	N/A	12.21	N/A	17.94	38.0
Toxaphene	0.78	0.0002	0.78	0.0002	0.447	#####	0.00023	0.00048
Tributyltin (TBT)	0.13	0.024	0.13	0.024	0.074	0.018	0.027	0.057
2,4,5 Trichlorophenol	136	64	136	64	77.9	49.3	72.4	153
Zinc	271	273	855	862	490	664	720	1524

HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1150	1826	1698	2496	5281
Aldrin	1.147E-04	1.82E-04	1.69E-04	2.49E-04	5.27E-04
Anthracene	13170	20912	19448	28588	60483
Antimony	10710	17006	15815	23248	49185
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	5810	9225	8580	12612	26682

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Benzidine	1.07	1.70	1.58	2.32	4.9
Benzo(a)anthracene	0.25	0.397	0.369	0.54	1.15
Benzo(a)pyrene	0.025	0.040	0.037	0.054	0.115
Bis(chloromethyl)ether	2.745	4.36	4.05	6.0	12.6
Bis(2-chloroethyl)ether	428.3	680	632	930	1967
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	75.5	120	111	164	347
Bromodichloromethane [Dichlorobromomethane]	2750	4367	4061	5969	12629
Bromoform [Tribromomethane]	10600	16831	15653	23010	48680
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	460	730	679	999	2113
Chlordane	0.025	0.040	0.037	0.054	0.115
Chlorobenzene	27370	43459	40417	59413	125696
Chlorodibromomethane [Dibromochloromethane]	1830	2906	2702	3972	8404
Chloroform [Trichloromethane]	76970	122215	113660	167080	353483
Chromium (hexavalent)	5020	7971	7413	10897	23054
Chrysene	25.2	40.0	37.2	55	116
Cresols [Methylphenols]	93010	147684	137346	201899	427146
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.02	0.032	0.030	0.043	0.092
4,4'-DDE	0.0013	0.0021	0.0019	0.0028	0.0060
4,4'-DDT	0.004	0.006	0.006	0.009	0.018
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	4730	7510	6985	10268	21722
1,2-Dibromoethane [Ethylene Dibromide]	42.4	67	63	92	195
m-Dichlorobenzene [1,3-Dichlorobenzene]	5950	9448	8786	12916	27325
o-Dichlorobenzene [1,2-Dichlorobenzene]	32990	52382	48716	71612	151506
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	22.4	35.6	33.1	49	103
1,2-Dichloroethane	3640	5780	5375	7901	16717
1,1-Dichloroethylene [1,1-Dichloroethene]	551140	875116	813858	1196372	2531099
Dichloromethane [Methylene Chloride]	133330	211705	196886	289422	612315
1,2-Dichloropropane	2590	4112	3825	5622	11895
1,3-Dichloropropene [1,3-Dichloropropylene]	1190	1890	1757	2583	5465
Dicofol [Kelthane]	3	4.8	4.43	6.5	13.8
Dieldrin	2.0E-04	3.18E-04	2.95E-04	4.34E-04	9.18E-04
2,4-Dimethylphenol	84360	133949	124573	183122	387422
Di-n-Butyl Phthalate	924	1467	1364	2006	4243
Dioxins/Furans [TCDD Equivalents]	7.97E-07	1.27E-06	1.18E-06	1.73E-06	3.66E-06
Endrin	0.2	0.318	0.295	0.434	0.92
Epichlorohydrin	20130	31963	29726	43697	92447
Ethylbenzene	18670	29645	27570	40527	85742
Ethylene Glycol	1.68E+08	2.67E+08	2.48E+08	3.65E+08	7.72E+08
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.001	0.0016	0.0015	0.0022	0.0046
Heptachlor Epoxide	0.0029	0.0046	0.0043	0.006	0.013
Hexachlorobenzene	0.0068	0.011	0.010	0.015	0.031
Hexachlorobutadiene	2.2	3.49	3.25	4.8	10.1
Hexachlorocyclohexane (<i>alpha</i>)	0.084	0.133	0.124	0.182	0.386
Hexachlorocyclohexane (<i>beta</i>)	2.6	4.13	3.84	5.6	11.9
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	3.41	5.4	5.0	7.4	15.7
Hexachlorocyclopentadiene	116	184	171	252	533
Hexachloroethane	23.3	37.0	34.4	51	107
Hexachlorophene	29	46.0	42.8	63	133
4,4'-Isopropylidenediphenol [Bisphenol A]	159820	253767	236003	346925	733970

San Antonio River Authority TPDES Permit No. WQ0010749003
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Lead	38.3	306	285	418	885
Mercury	0.122	0.194	0.180	0.265	0.56
Methoxychlor	30	48	44	65	138
Methyl Ethyl Ketone	9.92E+06	1.58E+07	1.46E+07	2.15E+07	4.56E+07
Methyl <i>tert</i> -butyl ether [MTBE]	104820	166436	154786	227535	481384
Nickel	11400	37258	34650	50935	107760
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	18730	29740	27658	40658	86017
N-Nitrosodiethylamine	21	33.3	31.0	45.6	96
N-Nitroso-di- <i>n</i> -Butylamine	42	67	62	91	193
Pentachlorobenzene	3.55	5.6	5.2	7.7	16.3
Pentachlorophenol	2.9	4.60	4.28	6.3	13.3
Polychlorinated Biphenyls [PCBs]	6.40E-03	0.010	0.009	0.014	0.029
Pyridine	9470	15037	13984	20557	43491
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.4	3.81	3.54	5.2	11.0
1,1,2,2-Tetrachloroethane	263.5	418	389	572	1210
Tetrachloroethylene [Tetrachloroethylene]	2800	4446	4135	6078	12859
Thallium	2.3	3.65	3.40	5.0	10.6
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.11	0.175	0.162	0.239	0.51
2,4,5-TP [Silvex]	3690	5859	5449	8010	16946
1,1,1-Trichloroethane	7843540	12454204	11582410	17026143	36021295
1,1,2-Trichloroethane	1660	2636	2451	3603	7624
Trichloroethylene [Trichloroethene]	719	1142	1062	1561	3302
2,4,5-Trichlorophenol	18670	29645	27570	40527	85742
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	165	262	244	358	758

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

	70% of Daily Avg.	85% of Daily Avg.
Aquatic Life		
Parameter	(µg/L)	(µg/L)
Aldrin	1.77	2.15
Aluminum	584	710
Arsenic	211	256
Cadmium	1.61	1.95
Carbaryl	1.18	1.43
Chlordane	0.0032	0.0038
Chlorpyrifos	0.032	0.039
Chromium (+3)	628	762
Chromium (+6)	8.40	10.2
Copper	46.6	56.6
Cyanide (free)	8.48	10.3
4,4'-DDT	0.00079	0.00096
Demeton	0.079	0.096
Diazinon	0.100	0.122
Dicofol	15.7	19.0
Dieldrin	0.0016	0.0019
Diuron	55.5	67.3
Endosulfan (alpha)	0.044	0.054
Endosulfan (beta)	0.044	0.054
Endosulfan sulfate	0.044	0.054

San Antonio River Authority TPDES Permit No. WQ0010749003
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Endrin	0.0016	0.0019
Guthion	0.0079	0.0096
Heptachlor	0.0032	0.0038
Hexachlorocyclohexane (Lindane)	0.063	0.077
Lead	28.9	35.1
Malathion	0.0079	0.0096
Mercury	1.03	1.25
Methoxychlor	0.024	0.029
Mirex	0.00079	0.00096
Nickel	196	238
Nonylphenol	5.23	6.35
Parathion (ethyl)	0.010	0.013
Pentachlorophenol	10.4	12.6
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls (PCBs)	0.011	0.013
Selenium	3.96	4.81
Silver	12.56	15.25
Toxaphene	0.00016	0.00019
Tributyltin (TBT)	0.019	0.023
2,4,5 Trichlorophenol	50.7	61.6
Zinc	504	612

	70% of Daily Avg.	85% of Daily Avg.
Human Health		
Parameter	(µg/L)	(µg/L)
Acrylonitrile	1747	2122
Aldrin	1.74E-04	2.12E-04
Anthracene	20012	24300
Antimony	16274	19761
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	8828	10720
Benzidine	1.63	1.97
Benzo(a)anthracene	0.380	0.461
Benzo(a)pyrene	0.038	0.046
Bis(chloromethyl)ether	4.17	5.1
Bis(2-chloroethyl)ether	651	790
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	115	139
Bromodichloromethane [Dichlorobromomethane]	4179	5074
Bromoform [Tribromomethane]	16107	19558
Cadmium	N/A	N/A
Carbon Tetrachloride	699	849
Chlordane	0.038	0.046
Chlorobenzene	41589	50501
Chlorodibromomethane [Dibromochloromethane]	2781	3377
Chloroform [Trichloromethane]	116956	142018
Chromium (hexavalent)	7628	9262
Chrysene	38.3	46
Cresols [Methylphenols]	141329	171614
Cyanide (free)	N/A	N/A
4,4'-DDD	0.030	0.037
4,4'-DDE	0.0020	0.0024
4,4'-DDT	0.006	0.007

San Antonio River Authority TPDES Permit No. WQ0010749003
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2,4'-D	N/A	N/A
Danitol [Fenprothrin]	7187	8727
1,2-Dibromoethane [Ethylene Dibromide]	64	78
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	9041	10978
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	50128	60870
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	34.0	41.3
1,2-Dichloroethane	5531	6716
1,1-Dichloroethylene [1,1-Dichloroethene]	837460	1016916
Dichloromethane [Methylene Chloride]	202596	246009
1,2-Dichloropropane	3936	4779
1,3-Dichloropropene [1,3-Dichloropropylene]	1808	2196
Dicofol [Kelthane]	4.56	5.5
Dieldrin	3.04E-04	3.69E-04
2,4-Dimethylphenol	128185	155654
Di- <i>n</i> -Butyl Phthalate	1404	1705
Dioxins/Furans [TCDD Equivalents]	1.21E-06	1.47E-06
Endrin	0.304	0.369
Epichlorohydrin	30588	37142
Ethylbenzene	28369	34448
Ethylene Glycol	2.55E+08	3.10E+08
Fluoride	N/A	N/A
Heptachlor	0.0015	0.0018
Heptachlor Epoxide	0.0044	0.0054
Hexachlorobenzene	0.010	0.013
Hexachlorobutadiene	3.34	4.06
Hexachlorocyclohexane (<i>alpha</i>)	0.128	0.155
Hexachlorocyclohexane (<i>beta</i>)	3.95	4.8
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	5.2	6.3
Hexachlorocyclopentadiene	176	214
Hexachloroethane	35.4	43.0
Hexachlorophene	44.1	54
4,4'-Isopropylidenediphenol [Bisphenol A]	242847	294886
Lead	293	356
Mercury	0.185	0.225
Methoxychlor	45.6	55
Methyl Ethyl Ketone	1.51E+07	1.83E+07
Methyl <i>tert</i> -butyl ether [MTBE]	159275	193405
Nickel	35654	43295
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	28460	34559
N-Nitrosodiethylamine	31.9	38.7
N-Nitroso-di- <i>n</i> -Butylamine	64	77
Pentachlorobenzene	5.4	6.6
Pentachlorophenol	4.41	5.4
Polychlorinated Biphenyls [PCBs]	0.010	0.012
Pyridine	14390	17473
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	3.65	4.43
1,1,2,2-Tetrachloroethane	400	486
Tetrachloroethylene [Tetrachloroethylene]	4255	5166
Thallium	3.49	4.24
Toluene	N/A	N/A
Toxaphene	0.167	0.203

San Antonio River Authority TPDES Permit No. WQ0010749003
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2,4,5-TP [Silvex]	5607	6808
1,1,1-Trichloroethane	1.19E+07	1.45E+07
1,1,2-Trichloroethane	2522	3063
Trichloroethylene [Trichloroethene]	1093	1327
2,4,5-Trichlorophenol	28369	34448
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	251	304

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 6, 2024

Re: Confirmation of Submission of the Renewal without changes for Public Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Renewal without changes for the Public Domestic Wastewater authorization.

ER Account Number: ER006578
Application Reference Number: 651706
Authorization Number: WQ0010749003
Site Name: Upper Martinez Creek WWTP
Regulated Entity: RN101514347 - Upper Martinez Plant
Customer(s): CN600790620 - San Antonio River Authority

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

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

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality
Update Domestic or Industrial Individual Permit
WQ0010749003

Site Information (Regulated Entity)

What is the name of the site to be authorized?	UPPER MARTINEZ CREEK WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	8203 BINZ ENGLEMAN RD
City	SAN ANTONIO
State	TX
ZIP	78244
County	BEXAR
Latitude (N) (##.#####)	29.468888
Longitude (W) (-###.#####)	-98.327777
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	221320
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN101514347
What is the name of the Regulated Entity (RE)?	UPPER MARTINEZ PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	100 E GUENTHER
City	SAN ANTONIO
State	TX
ZIP	78204
County	BEXAR
Latitude (N) (##.#####)	29.469217
Longitude (W) (-###.#####)	-98.315556
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

San Ant-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600790620
Type of Customer	Other Government
Full legal name of the applicant:	
Legal Name	San Antonio River Authority
Texas SOS Filing Number	
Federal Tax ID	746011311
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	74611047
Number of Employees	101-250
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	San Antonio River Authority
Prefix	MR
First	Leamon
Middle	
Last	Anderson
Suffix	
Credentials	
Title	Deputy Director, Utilities Operations
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
Routing (such as Mail Code, Dept., or Attn:)	
City	SAN ANTONIO
State	TX
ZIP	78204
Phone (###-###-####)	2103024200
Extension	
Alternate Phone (###-###-####)	

Fax (###-###-####)

E-mail

2106619324

landerson@sariverauthority.org

Billing Contact

Responsible contact for receiving billing statements:

Select the permittee that is responsible for payment of the annual fee.

Organization Name

Prefix

First

Middle

Last

Suffix

Credentials

Title

Enter new address or copy one from list:

Mailing Address

Address Type

Mailing Address (include Suite or Bldg. here, if applicable)

Routing (such as Mail Code, Dept., or Attn:)

City

State

ZIP

Phone (###-###-####)

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

CN600790620, San Antonio River Authority

SAN ANTONIO RIVER AUTHORITY

MR

Leamon

Anderson

Deputy Director, Utilities Operations

CN600790620, San Antonio River Authority

Domestic

100 E GUENTHER

SAN ANTONIO

TX

78204

2103024200

2106619324

landerson@sariverauthority.org

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?

Organization Name

Prefix

First

Middle

CN600790620, San Antonio River Authority

San Antonio River Authority

MR

Leamon

Last	Anderson
Suffix	
Credentials	
Title	Deputy Director, Utilities Operations
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
Routing (such as Mail Code, Dept., or Attn:)	
City	SAN ANTONIO
State	TX
ZIP	78204
Phone (###-###-####)	2103024200
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	landerson@sariverauthority.org

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	SAN ANTONIO RIVER AUTHORITY
Prefix	MR
First	Ernest
Middle	
Last	Munoz
Suffix	
Credentials	
Title	Quality Control Operator
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
Routing (such as Mail Code, Dept., or Attn:)	
City	SAN ANTONIO
State	TX

ZIP	78204
Phone (###-###-####)	2103024200
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	emunoz@sariverauhtority.org

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:	
Same as another contact?	
Organization Name	SAN ANTONIO RIVER AUTHORITY
Prefix	
First	Ernest
Middle	
Last	Munoz
Suffix	
Credentials	
Title	Quality Control Operator
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
Routing (such as Mail Code, Dept., or Attn:)	
City	SAN ANTONIO
State	TX
ZIP	78204
Phone (###-###-####)	2103024200
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	emunoz@sariverauthority.org

Section 1# Permit Contact

Permit Contact#: 1
Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	San Antonio River Authority
3) Prefix	
4) First	Ernest
5) Middle	
6) Last	Munoz
7) Suffix	
8) Credentials	
9) Title	Quality Control Operator
Mailing Address	
10) Enter new address or copy one from list	DMR Contact
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	SAN ANTONIO
11.4) State	TX
11.5) ZIP	78204
12) Phone (###-###-####)	2103024200
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	2106619324
16) E-mail	emunoz@sariverauthority.org

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	San Antonio River Authority
3) Prefix	
4) First	Leamon
5) Middle	
6) Last	Anderson
7) Suffix	
8) Credentials	
9) Title	Deputy Director, Utilities Operations
Mailing Address	

- 10) Enter new address or copy one from list
- 11) Address Type
- 11.1) Mailing Address (include Suite or Bldg. here, if applicable)
- 11.2) Routing (such as Mail Code, Dept., or Attn:)
- 11.3) City
- 11.4) State
- 11.5) ZIP
- 12) Phone (###-###-####)
- 13) Extension
- 14) Alternate Phone (###-###-####)
- 15) Fax (###-###-####)
- 16) E-mail

DMR Contact

Domestic

100 E GUENTHER

SAN ANTONIO

TX

78204

2103024200

2106619324

landerson@sariverauhtority.org

Owner Information

Owner of Treatment Facility

- 1) Prefix
- 2) First and Last Name
- 3) Organization Name
- 4) Mailing Address
- 5) City
- 6) State
- 7) Zip Code
- 8) Phone (###-###-####)
- 9) Extension
- 10) Email
- 11) What is ownership of the treatment facility?

San Antonio River Authority

100 E Guenther

San Antonio

TX

78204

2103024200

landerson@sariverauthority.org

Public

Owner of Land (where treatment facility is or will be)

- 12) Prefix
- 13) First and Last Name
- 14) Organization Name
- 15) Mailing Address
- 16) City
- 17) State
- 18) Zip Code
- 19) Phone (###-###-####)
- 20) Extension

San Antonio River Authority

100 E Guenther

San Antonio

TX

78204

2103024200

21) Email

landerson@sariverauthority.org

22) Is the landowner the same person as the facility owner or co-applicant?

Yes

General Information Renewal-Amendment

1) Current authorization expiration date:

03/18/2025

2) Current Facility operational status:

Active

3) Is the facility located on or does the treated effluent cross American Indian Land?

No

4) What is the application type that you are seeking?

Renewal without changes

5) Current Authorization type:

Public Domestic Wastewater

5.1) What is the proposed total flow in MGD discharged at the facility?

2.21

5.2) Select the applicable fee

>= 1.0 MGD - Renewal - \$2,015

6) What is the classification for your authorization?

TPDES

6.1) What is the EPA Identification Number?

TX0024082

6.2) Is the wastewater treatment facility location in the existing permit accurate?

Yes

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

Yes

6.4) City nearest the outfall(s):

San Antonio

6.5) County where the outfalls are located:

BEXAR

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

No

6.7) Is the daily average discharge at your facility of 5 MGD or more?

No

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

No

Public Notice Information

Individual Publishing the Notices

1) Prefix

MR

2) First and Last Name

Ernest Munoz

3) Credential

4) Title

Quality Control Operator

5) Organization Name

San Antonio River Authority

6) Mailing Address

100 E GUENTHER

7) Address Line 2

8) City

SAN ANTONIO

9) State

TX

10) Zip Code

78204

11) Phone (###-###-####)	2103024200
12) Extension	
13) Fax (###-###-####)	
14) Email	emunoz@sariverauthority.org
Contact person to be listed in the Notices	
15) Prefix	MR
16) First and Last Name	Ernest Munoz
17) Credential	
18) Title	Quality Control Operator
19) Organization Name	San Antonio River Authority
20) Phone (###-###-####)	2103024200
21) Fax (###-###-####)	
22) Email	emunoz@sariverauthority.org
Bilingual Notice Requirements	
23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	BEXAR
2) Public building name	San Antonio River Authority Utilities Administration Building
3) Location within the building	Front Desk
4) Physical Address of Building	1720 FM 1516 North
5) City	Converse
6) Contact Name	Ernest Munoz
7) Phone (###-###-####)	2103024200
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_Attachment 2 Plain Language.pdf
Hash	BAA1364A32E70B777D36873429ABA150BC5BE55D30C833336E95CC39A407D237
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	
[File Properties]	
File Name	SPIF_Attachment 3_4 SPIF and SPIF Map.pdf
Hash	E46EB4625CBA304E2A536E226F2FDADF245C4688F2DDC5A0B3B1A55FC4CAD3CD
MIME-Type	application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.	
[File Properties]	
File Name	MAP_Attachment 5 USGS Map.pdf
Hash	49190649242ADF56350DF057BDFB643049C87A4F637412CC15A94873A183ADB7
MIME-Type	application/pdf
2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
2.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	Yes
2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	Yes
2.5) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes

2.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?

No

2.7) Technical Attachment

[File Properties]

File Name

TECH_Attachment 10 Domestic Technical Report 6.0.pdf

Hash

A97AE6A22D76594070F7A030FB74D8D2CD9AFAE7DCB2AC9277A9E6BF53AF856A

MIME-Type

application/pdf

[File Properties]

File Name

TECH_Attachment 7 Domestic Technical Report 2.0.pdf

Hash

28552288FE371220A9489324E7467EAE65B0FD078CF7B2864425E69B35116C33

MIME-Type

application/pdf

[File Properties]

File Name

TECH_Attachment 8 Domestic Technical Report 4.0.pdf

Hash

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MIME-Type

application/pdf

[File Properties]

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TECH_Attachment 6 Domestic Technical Report 1.0.pdf

Hash

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MIME-Type

application/pdf

[File Properties]

File Name

TECH_Attachment 9 Domestic Technical Report 5.0.pdf

Hash

74538EFEBF6B88DDBF1C05B5645F317944361D289665387FF9A8A8231B605D54

MIME-Type

application/pdf

3) Buffer Zone Map

[File Properties]

File Name

BUFF_ZM_Buffer Zone Not Required.pdf

Hash

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MIME-Type

application/pdf

4) Flow Diagram

[File Properties]

File Name

FLDIA_Attachment 13 Flow Diagram.pdf

Hash

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MIME-Type	application/pdf
5) Site Drawing	
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File Name	SITEDR_Attachment 14 Facility Site Drawing.pdf
Hash	2A65B406A5BCC56870C476A3E342FF2D65DB3E55F24AFFB0D6D45B7382F3785A
MIME-Type	application/pdf
6) Design Calculations	
[File Properties]	
File Name	DES_CAL_Design Calculations Not Required.pdf
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MIME-Type	application/pdf
7) Solids Management Plan	
8) Water Balance	
[File Properties]	
File Name	WB_Water Balance Not Required.pdf
Hash	0D5F0C58049E8EC2AE75ECCF6D9140B63F7F4DA7B9DFDA610A18A2D1E7822FE5
MIME-Type	application/pdf
9) Other Attachments	
[File Properties]	
File Name	OTHER_Attachment 12 Treatment Units.pdf
Hash	594A543BD29269C9F2468C90B64467CBF97A01920002C4074F7ACDA72A0D5990
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 11 Treatment Description.pdf
Hash	EBF9399AD151AA2A9A5325BCCF3B541F968532885666271D22CC52B543D2F93
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 15 Pollutant Analysis.pdf
Hash	FF217D03F264876B2A973A6EB8E5A40F0275E746175224C19CC0C6AAA5A7E2AD
MIME-Type	application/pdf
[File Properties]	

File Name	OTHER_Attachment 16 Sludge Agreement.pdf
Hash	3FA378EF8A1FAABD145C20DB706BB454207F5E7C39F685030D13F157F353CE6F
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_Attachment 1 Payment Submittal.pdf
Hash	2EA6EC6A621520BEA4D8722DB42503306B189E0DB36D41FF4D6709DCCB786F86
MIME-Type	application/pdf

Certification

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

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

1. I am Leamon M Anderson, the owner of the STEERS account ER105182.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0010749003.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Leamon M Anderson OWNER

Customer Number:	CN600790620
Legal Name:	San Antonio River Authority
Account Number:	ER105182
Signature IP Address:	209.245.218.234
Signature Date:	2024-09-05
Signature Hash:	F287F6022DBBB503604AF4BBA86AB90913F024DA6ACEF4F4BEB268E6358CE326
Form Hash Code at time of Signature:	9CE80006DDEE7C934F2F523A1783DBCF2802B44E209F1BEB8DCB37D5693339F8

Fee Payment

Fee Amount:	\$2000.00
-------------	-----------

Check Date:

Check Number:

The application fee was paid on 2024-08-15

The check number is M420351

Submission

Reference Number:

Submitted by:

Submitted Timestamp:

Submitted From:

Confirmation Number:

Steers Version:

Permit Number:

The application reference number is 651706

The application was submitted by ER006578/Daniel P Flores

The application was submitted on 2024-09-06 at 10:03:27 CDT

The application was submitted from IP address 209.245.218.234

The confirmation number is 561827

The STEERS version is 6.82

The permit number is WQ0010749003

Additional Information

Application Creator: This account was created by Ernest Munoz



UT-UMRT-TCEQ

August 8, 2024

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (9589 0710 5270 0946 9881 31)

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

Reference: Upper Martinez Wastewater Treatment Plant; RN101514347
TPDES Permit No. WQ0010749-003 and NPDES No. TX0024082;
San Antonio River Authority CN600790620; Tax No. 1-74-6011311-5

Subject: Wastewater Discharge Permit Application Fee

Dear Madam/Sir:

Enclosed is check no. 950677 for the total amount of \$2,015.00 for a wastewater discharge permit renewal application for the above referenced plant. This permit is due to expire March 18, 2025.

Please call Ernest Muñoz at (210) 302-4200, should you have any questions and/or require any additional information.

Sincerely,

Ernest Muñoz
Quality Control Operator

EM: ddv
Enclosure

**EXECUTIVE
COMMITTEE**

CHAIRMAN

Jim Campbell

VICE-CHAIR

Gaylon J. Oehlke

SECRETARY

Jerry G. Gonzales

TREASURER

Derek J. Gaudlitz

MEMBERS AT-LARGE

Lourdes Galvan
James Fuller, M.D.

BOARD OF DIRECTORS

BEXAR COUNTY

District 1

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Lourdes Galvan

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Michael W. Lackey, P.E.

District 4

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KARNES COUNTY

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Gaylon J. Oehlke

GOLIAD COUNTY

James Fuller, M.D.

GENERAL MANAGER

Derek Boese, JD, PMP

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: WQ0010749-003

1. Check or Money Order Number: 950677
2. Check or Money Order Amount: \$2,015.00
3. Date of Check or Money Order: 08/02/2024
4. Name on Check or Money Order: San Antonio River Authority
5. APPLICATION INFORMATION

Name of Project or Site: Upper Martinez Wastewater Treatment Plant

Physical Address of Project or Site: 8203 Binz-Engleman Road San Antonio, Texas 78244

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

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 11

Treatment Process Description

Reference: Domestic Technical Report 1.0

Section 2 A

Attachment 11

Upper Martinez WWTP Description

The Upper Martinez WWTP is an activated sludge plant with a permitted flow of 2.21 MGD. The plant operates in the extended aeration mode.

The sewage enters the plant headworks through the 54" raw wastewater (Raw) screw pump rated at 4,690 GPM (6.75 MGD). The headworks also includes a 54" Return Activated Sludge (RAS) screw pump rated at 4,690 GPM (6.75 MGD) that can also serve as a backup Raw pump. Raw wastewater then flows through a 2 foot wide mechanical bar screen, followed by a 2 foot wide fixed bar screen, and then through a 4.42 MGD capacity grit chamber.

After preliminary treatment, the raw wastewater then mixes with the RAS and then gravity flows into two aeration basins. One is a Carrousel Unit (1,300,000 gallon volume) with two aerators, and the other is an oxidation ditch (1,000,000 gallon volume) with two fixed rotors and two floating rotors.

The mixed liquor then flows into two final clarifiers. One is 66 feet in diameter with a 10-foot sidewall depth (250,000 gallon volume), and the other is 80 feet in diameter with a 12-foot sidewall depth (350,000 gallon volume). The settled sludge is returned to the headworks where the process starts all over again.

Secondary effluent from the clarifiers flows through a post aeration chamber and then into the Ultraviolet Disinfection System (rated at 7.5 MGD) before being discharged to Martinez Creek.

Ultimately, the waste activated sludge is disposed of using the following method.

The waste activated sludge is transferred by gravity wastewater collection line where it is combined with raw wastewater that flows to the Martinez II WWTP (also owned and operated by the San Antonio River Authority) for treatment and dewatering.

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 12

Type and Dimension of Each Treatment Unit

Reference: Domestic Technical Report 1.0

Section 2 B

Upper Martinez Permit Renewal

Attachment 12

Type and Dimensions of Treatment Units

1. Primary Treatment

Raw Sewage Lift Station

CPC Internalift Screw Pump (54'') 1/ea.

CPC Internalift Screw Pump (54'') 1/ea

(Return sludge screw pump to be
used as standby raw sewage pump)

Pumping rate/ea. 4,690 GPM

Bar screen

Mechanical (1" wide) 1/ea.

Fixed (2" wide) 1/ea.

Grit Chamber (10' Diameter X 4.75' Deep) 1/ea.

4.42MGD capacity, peak flow

Secondary Treatment

2. Carousel Unit 1/ea.

248' x 84' x 10'

Basin Volume: 1,300,000 gal;

Aerator Diameter: 8.2 ft.

Number of Aerators 2/ea.

3. Oxidation Ditch 1/ea.

525' x 65' x 5'

Basin Volume: 1,000,000 gals;

Rotor Length: 25ft

Number of Rotors 2/ea.

Attachment 12 (continued)

4. Final Clarifier (Lakeside) 1/ea.

Diameter: 66 ft
Sidewall Depth: 10 ft
Volume : 250,000 gals

5. Final Clarifier (EIMCO) 1/ea.

Diameter: 80 ft
Sidewall Depth: 12 ft
Volume: 350,000 gals

Disinfection:

6. Ultraviolet Disinfection System 1/ea.

Dimensions: 3'6" Wide X 44' Long X 4'2" Deep
Design capacity: 7.5 mgd

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 15

Pollutant Analyses of Treated Effluent


Reference: Domestic Technical Report 1.0

Section 7

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores, San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0715	PCS Sample #: 768089 Page 1 of 5 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024 Approved by:  Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
BOD5		5	mg/L	3	07/16/2024 15:33	SM 5210 B	GQM
CBOD5		5	mg/L	3	07/16/2024 15:33	SM 5210 B	GQM
Chloride IC		123	mg/L	20	07/17/2024 08:55	EPA 300.0	JAS
Conductivity, Specific		896	µmhos/cm at 25° C	1	07/16/2024 11:56	SM 2510B	LCC
Nitrate-N_IC		<0.2	mg/L	0.2	07/16/2024 13:54	EPA 300.0	JAS
Phosphorus, Total		1.78	mg/L	0.10	07/24/2024 05:20	SM 4500-P/B/E	JAS
Sulfate_IC	R	91	mg/L	20	07/17/2024 08:55	EPA 300.0	JAS
Total Dissolved Solids		496	mg/L	10	07/17/2024 15:10	SM 2540C	CLH/PML

Test Description	Precision	Quality Assurance Summary				UCL	LCS	LCS Limit	Blank
		Limit	LCL	MS	MSD				
BOD5	8	23	N/A	N/A	N/A	N/A	180	167 - 228	
CBOD5	8	23	N/A	N/A	N/A	N/A	180	167 - 228	
Chloride IC	2	10	95	101	99	102	99	85 - 115	
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N_IC	1	20	70	100	101	130	94	85 - 115	
Phosphorus, Total	<1	10	91	102	102	103	100	85 - 115	
Sulfate_IC	<1	10	94	*102	*102	101	105	85 - 115	
Total Dissolved Solids	1.2	10	N/A	N/A	N/A	N/A			

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
 R Spike recovery outside control limits due to matrix effect - LCS within limits

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits
 QC Data Reported in %, Except BOD in mg/L

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0715	PCS Sample #: 768089 Page 2 of 5 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Total Suspended Solids	4	mg/L	1	07/16/2024 15:40	SM 2540 D	PML
Ammonia-N (ISE)	0.1	mg/L	0.1	07/16/2024 14:50	SM 4500-NH3 D	BMR
Fluoride IC	0.21	mg/L	0.20	07/16/2024 13:54	EPA 300.0	JAS
Kjeldahl-N, Total	6	mg/L	1	07/18/2024 09:30	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	182	mg/L	10	07/24/2024 08:30	SM 2320 B	LCC
Arsenic/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Barium/ICP (Total)	0.077	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.005	mg/L	0.005	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL

Test Description	Precision	Quality Assurance Summary							Blank
		Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Total Suspended Solids	3	10	N/A			N/A			
Ammonia-N (ISE)	2	10	80	109	106	120	90	85 - 115	
Fluoride IC	2	10	87	100	103	105	105	85 - 115	
Kjeldahl-N, Total	2	10	90	97	99	109	101	85 - 115	<1
Alkalinity, Total (@pH 4.5)	<1	10	95	98	98	107	100	85 - 115	
Arsenic/ICP MS	4	20	70	111	107	130	105	85 - 115	
Barium/ICP (Total)	10	20	75	93	102	125	105	85 - 115	
Cadmium/ICP (Total)	<1	20	75	100	100	125	105	85 - 115	

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

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 RL = Reporting Limits

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0715	PCS Sample #: 768089 Page 3 of 5 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Chromium/ICP (Total)		<0.010	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Copper/ICP (Total)		0.008	mg/L	0.005	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Lead/ICP MS		<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Aluminum/ICP (Total)		0.012	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)		<0.005	mg/L	0.005	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Trivalent Chromium		<0.003	mg/L	N/A	07/24/2024 11:57	Calculation	DJL
Hexavalent Chrome	R	<0.003	mg/L	0.003	07/17/2024 15:29	SM 3500-Cr B	DJL
Nickel/ICP (Total)		<0.010	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL

Test Description	Precision	Quality Assurance Summary							Blank
		Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Chromium/ICP (Total)	2	20	75	98	100	125	100	85 - 115	
Copper/ICP (Total)	<1	20	75	99	99	125	100	85 - 115	
Lead/ICP MS	5	20	70	111	106	130	109	85 - 115	
Aluminum/ICP (Total)	<1	20	75	109	109	125	100	85 - 115	
Beryllium/ICP (Total)	<1	20	75	100	100	125	105	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	<1	20	75	*69	*69	125	101	85 - 115	
Nickel/ICP (Total)	2	20	75	95	97	125	100	85 - 115	

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
 R Spike recovery outside control limits due to matrix effect - LCS within limits

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 RL = Reporting Limits

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0715	PCS Sample #: 768089 Page 4 of 5 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Zinc/ICP (Total)	0.019	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Antimony/ICP MS	<0.005	mg/L	0.005	07/19/2024 13:04	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	07/19/2024 13:04	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Pesticides 617	See Attached				DHL	
604.1 Hexachlorophene	See Attached				DHL	
Semi Volatiles 625	See Attached				DHL	

Test Description	Precision	Quality Assurance Summary							Blank
		Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Zinc/ICP (Total)	<1	20	75	98	98	125	105	85 - 115	
Antimony/ICP MS	5	20	70	109	104	130	104	85 - 115	
Thallium/ICP MS	5	20	70	103	98	130	101	85 - 115	
Selenium/ICP MS	3	20	70	105	101	130	105	85 - 115	
Silver/ICP MS	3	20	70	99	96	130	102	85 - 115	
Pesticides 617	See Attached Report for Quality Assurance Information								
604.1 Hexachlorophene	See Attached Report for Quality Assurance Information								
Semi Volatiles 625	See Attached Report for Quality Assurance Information								

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

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 RL = Reporting Limits

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0715	PCS Sample #: 768089 Page 5 of 5 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Pesticides 608	See Attached				DHL	
Pesticides 632	See Attached				DHL	
Pesticide 1657	See Attached				DHL	
Herbicides 615	See Attached				SPL	

Test Description	Quality Assurance Summary								
	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Pesticides 608	See Attached Report for Quality Assurance Information								
Pesticides 632	See Attached Report for Quality Assurance Information								
Pesticide 1657	See Attached Report for Quality Assurance Information								
Herbicides 615	See Attached Report for Quality Assurance Information								


Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

	These analytical results relate only to the sample tested. All data is reported on an 'As Is' basis unless designated as 'Dry Wt'. RL = Reporting Limits
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POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 7/16/2024 0950	PCS Sample #: 768090 Page 1 of 1 Date/Time Received: 7/16/2024 11:11 Report Date: 8/1/2024 Approved by:  Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Oil and Grease (H.E.M.)		<5.0	mg/L	5	07/24/2024 10:45	EPA 1664 Rev	EMV
Mercury/CVAFS		<0.000005	mg/L	0.000005	07/23/2024 09:15	EPA 245.7	DJL
Phenols, Distillable		See Attached				SPL	
Cyanide, Amenable	+	See Attached				DHL	
Volatiles 624		See Attached				DHL	

Test Description	Quality Assurance Summary								
	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Oil and Grease (H.E.M.)	<1	18	N/A	N/A	N/A	N/A	93	78 - 114	
Mercury/CVAFS	3	20	70	78	81	130	92	70 - 130	<1.8ng/L
Phenols, Distillable	See Attached Report for Quality Assurance Information								
Cyanide, Amenable	See Attached Report for Quality Assurance Information								
Volatiles 624	See Attached Report for Quality Assurance Information								

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

+ Subcontract Work - NELAP Certified Lab

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits

POLLUTION CONTROL SERVICES

Chain of Custody Number
768089

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION				REPORT INFORMATION				Phone: (210) 844-0201				Fax: (210) 661-9324					
Name: San Antonio River Authority				Attention: Russell Neal													
SAMPLE INFORMATION						Requested Analysis											
Project Information:						Collected By: Ernest Muñoz								Instructions/Comments:			
Upper Martinez - TCEQ Major Permit Renewal														*Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, SbMS, AsMS, PbMS, SeMS, AgMS, TMS			
Report "Soils" <input type="checkbox"/> As Is <input type="checkbox"/> Dry Wt.																	
Client / Field Sample ID	Collected		Field Chlorine Residual mg/L	Composite or Grab	Matrix DW-Drinking Water; NPW-Non-potable water; WW-Wastewater; LW-Liquid Waste	Type	Number	Preservative	CBOD, TSS, TDS, SO ₄ , Cl, SpCond HexCr, Tricr, NO ₃ N, Talk, F,	NH ₃ N, TKN, TPO ₄ P, Metals*	604 J Hex, Herb 613, Pest 1657, 608, 617, 632, SVOC 625	FOG (HEM)	VOC 624	CN-A	Phenol (Dist)	Low Level Hg	PCS Sample Number
	Date	Time															
Effluent	Start: 7-15-24	Start: 9:15 am		<input checked="" type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> G <input type="checkbox"/> O	10	<input checked="" type="checkbox"/> H ₂ SO ₄ <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>	X	X	X						768089
	End: 7-16-24	End: 7:15 am															
Effluent	Start: 7-16-24	Start: 9:50 am		<input type="checkbox"/> C <input checked="" type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	10	<input checked="" type="checkbox"/> H ₂ SO ₄ <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>				X	X	X	X	X	768090
	End: 7-16-24	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>									
	End:	End:															

Required Turnaround: ☐ Routine (6-10 days) ☒ EXPEDITE: (See Surcharge Schedule) ☐ < 8 Hrs. ☐ < 16 Hrs. ☐ < 24 Hrs. ☐ 5 days ☐ Other: Rush Charges Authorized by:

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Hold for client pick up Container Type: P = Plastic, G = Glass, O = Other Carrier ID:

Relinquished By:	Date: 7-16-24	Time: 11:11 am	Received By:	Date: 7-16-24	Time: 1111
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Rev. Multiple Sample COC_20180628

1532 Universal City Blvd., Ste. 100, Universal City, Texas 78148

P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

Z:\COC\F\Fredericksburg_City_of\FredericksburgTCEQPermit

Login at www.pcslab.net



600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 02, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

This analytical report is intended exclusively for the individual or entity to which it is addressed.
Recipient is not authorized to print or copy this report, except in full without written approval of the laboratory. If you have received this report in error, please notify the San Antonio River Authority.

Sample Location: AA06610 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB47940
Sample Matrix: Non Potable Water

Collection Date/Time: 07/01/2024 09:40
Receipt Date/Time: 07/01/2024 13:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a “√” complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/2/2024 14:24:55



600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 02, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB47940-A	E. coli	√	<1	MPN/100 mL		1	79947	7/1/24	15:58	DMS/RS
	SM 9223B-2016									
AB47940-A	E. Coli Holding Time - IDEXX Colilert		6.30	hours		0.00	79946	7/1/24	15:58	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/2/2024 14:24:55



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 02, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79947

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Patricia M. Carvajal
Quality Assurance Supervisor

7/2/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/2/2024 14:24:55



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 10, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06624 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB47949

Sample Matrix: Non Potable Water

Collection Date/Time: 07/02/2024 09:35

Receipt Date/Time: 07/02/2024 13:49

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:05:09



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB47949-A	E. coli	√	<1	MPN/100 mL		1	79956	7/2/24	15:17	RS/DAZ
	SM 9223B-2016									
AB47949-A	E. Coli Holding Time - IDEXX Colilert		5.70	hours		0.00	79955	7/2/24	15:17	RS/DAZ

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79956

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/10/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:05:09



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 10, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06638 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB47967

Sample Matrix: Non Potable Water

Collection Date/Time: 07/03/2024 09:20

Receipt Date/Time: 07/03/2024 13:22

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:09:45



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB47967-A	E. coli	√	2	MPN/100 mL		1	79985	7/3/24	16:02	RS/DMS
	SM 9223B-2016									
AB47967-A	E. Coli Holding Time - IDEXX Collert		6.70	hours		0.00	79984	7/3/24	16:02	RS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79985

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/10/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:09:45



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 12, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06662 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB47987
Sample Matrix: Non Potable Water

Collection Date/Time: 07/04/2024 07:47
Receipt Date/Time: 07/04/2024 11:09

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a “√” complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:49:56



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 12, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB47987-A	E. coli	√	<1	MPN/100 mL		1	79989	7/4/24	12:50	DMS
	SM 9223B-2016									
AB47987-A	E. Coli Holding Time - IDEXX Collert		5.05	hours		0.00	79988	7/4/24	12:50	DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 12, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79989

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Patricia M. Carvajal
Quality Assurance Supervisor

7/12/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:49:56



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 12, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06674 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB47995
Sample Matrix: Non Potable Water

Collection Date/Time: 07/05/2024 08:30
Receipt Date/Time: 07/05/2024 13:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "✓" complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:53:04



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 12, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB47995-A	E. coli	√	1	MPN/100 mL		1	79992	7/5/24	15:13	RS/DMS
	SM 9223B-2016									
AB47995-A	E. Coli Holding Time - IDEXX Collert		6.72	hours		0.00	79991	7/5/24	15:13	RS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 12, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79992

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Patricia M. Carvajal
Quality Assurance Supervisor

7/12/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:53:04



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 10, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06689 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48002

Sample Matrix: Non Potable Water

Collection Date/Time: 07/06/2024 08:30

Receipt Date/Time: 07/06/2024 11:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:48:51



600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48002-A	E. coli	√	1	MPN/100 mL		1	79996	7/6/24	13:04	DMS/JS
	SM 9223B-2016									
AB48002-A	E. Coli Holding Time - IDEXX Colilert		4.57	hours		0.00	79995	7/6/24	13:04	DMS/JS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79996

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

7/10/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:48:51



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 10, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06701 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48006

Sample Matrix: Non Potable Water

Collection Date/Time: 07/07/2024 08:30

Receipt Date/Time: 07/07/2024 12:52

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:51:54



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48006-A	E. coli	√	3	MPN/100 mL		1	79998	7/7/24	13:26	JS/DMS
	SM 9223B-2016									
AB48006-A	E. Coli Holding Time - IDEXX Colilert		4.93	hours		0.00	79997	7/7/24	13:26	JS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:51:54



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 10, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-79998

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

7/10/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/10/2024 10:51:54



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 12, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06715 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48014
Sample Matrix: Non Potable Water

Collection Date/Time: 07/08/2024 10:30
Receipt Date/Time: 07/08/2024 13:24

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a “√” complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:56:11



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ANALYTICAL REPORT



July 12, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48014-A	E. coli	√	3	MPN/100 mL		1	80003	7/8/24	16:15	DMS/RS
	SM 9223B-2016									
AB48014-A	E. Coli Holding Time - IDEXX Collert		5.75	hours		0.00	80002	7/8/24	16:15	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 12, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80003

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Patricia M. Carvajal
Quality Assurance Supervisor

7/12/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 8:56:11



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July 16, 2024

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Daniel Flores
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Sample Location: AA06731 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48031
Sample Matrix: Non Potable Water

Collection Date/Time: 07/09/2024 08:50
Receipt Date/Time: 07/09/2024 13:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:44.45



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ANALYTICAL REPORT



July 16, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48031-A	E. coli	√	2	MPN/100 mL		1	80012	7/9/24	15:56	RS/DMS
	SM 9223B-2016									
AB48031-A	E. Coli Holding Time - IDEXX Colilert		7.10	hours		0.00	80011	7/9/24	15:56	RS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 16, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80012

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/16/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:44.45



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July 12, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
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Sample Location: AA06746 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48049
Sample Matrix: Non Potable Water

Collection Date/Time: 07/10/2024 09:00
Receipt Date/Time: 07/10/2024 13:39

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "✓" complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 9:00:58



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ANALYTICAL REPORT



July 12, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48049-A	E. coli	√	1	MPN/100 mL		1	80026	7/10/24	15:55	DMS
	SM 9223B-2016									
AB48049-A	E. Coli Holding Time - IDEXX Colilert		6.92	hours		0.00	80025	7/10/24	15:55	DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 12, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80026

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Patricia M. Carvajal
Quality Assurance Supervisor

7/12/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/12/2024 9:00:58



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 12, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06770 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48090

Sample Matrix: Non Potable Water

Collection Date/Time: 07/11/2024 09:00

Receipt Date/Time: 07/11/2024 13:57

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/12/2024 14:59.18



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ANALYTICAL REPORT



August 12, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48090-A	E. coli	√	2	MPN/100 mL		1	80035	7/11/24	15:59	AC/DMS/RS
	SM 9223B-2016									
AB48090-A	E. Coli Holding Time - IDEXX Colilert		6.98	hours		0.00	80034	7/11/24	15:59	AC/DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



August 12, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80035

Acceptance Criteria

QC Analyte Name

Result

Units

Qualifier

Lower

Target

Upper

Initial Blank for E. coli

Absent

Absent

Log Range for E. coli

0.3010

0.0

0.5

8/12/2024

Jeanette Hernandez
Senior Quality Assurance Specialist

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/12/2024 14:59.18



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 15, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
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San Antonio, TX 78263

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Sample Location: AA06782 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48102
Sample Matrix: Non Potable Water

Collection Date/Time: 07/12/2024 08:30
Receipt Date/Time: 07/12/2024 13:17

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/15/2024 12:34.44



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 15, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48102-A	E. coli	√	1	MPN/100 mL		1	80046	7/12/24	14:32	RS/DAZ
	SM 9223B-2016									
AB48102-A	E. Coli Holding Time - IDEXX Colilert		6.03	hours		0.00	80045	7/12/24	14:32	RS/DAZ

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/15/2024 12:34.44



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 15, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80046

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/15/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/15/2024 12:34.44



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 16, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
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San Antonio, TX 78263

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Sample Location: AA06794 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48107
Sample Matrix: Non Potable Water

Collection Date/Time: 07/13/2024 07:40
Receipt Date/Time: 07/13/2024 11:21

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:47.52



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ANALYTICAL REPORT



July 16, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48107-A	E. coli	√	<1	MPN/100 mL		1	80048	7/13/24	13:44	DAZ/MEV
	SM 9223B-2016									
AB48107-A	E. Coli Holding Time - IDEXX Colilert		6.07	hours		0.00	80047	7/13/24	13:44	DAZ/MEV

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:47.52



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 16, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80048

Acceptance Criteria

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/16/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:47.52



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July 16, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
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San Antonio, TX 78263

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Sample Location: AA06807 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48112
Sample Matrix: Non Potable Water

Collection Date/Time: 07/14/2024 07:04
Receipt Date/Time: 07/14/2024 11:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:51.00



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ANALYTICAL REPORT



July 16, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48112-A	E. coli	√	<1	MPN/100 mL		1	80050	7/14/24	12:26	MEV/DMS
	SM 9223B-2016									
AB48112-A	E. Coli Holding Time - IDEXX Colilert		5.37	hours		0.00	80049	7/14/24	12:26	MEV/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:51.00



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 16, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80050

QC Analyte Name

Initial Blank for E. coli

Log Range for E. coli

Result

Absent

0.0000

Units

Qualifier

Lower

0.0

Acceptance Criteria

Target

Absent

Upper

0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

7/16/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/16/2024 16:51.00



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July 18, 2024

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Customer: SARA - Upper Martinez WWTP
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Sample Location: AA06821 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48118
Sample Matrix: Non Potable Water

Collection Date/Time: 07/15/2024 08:45
Receipt Date/Time: 07/15/2024 13:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/18/2024 9:12:14



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ANALYTICAL REPORT



July 18, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48118-A	E. coli	√	<1	MPN/100 mL		1	80054	7/15/24	15:55	DMS/RS
	SM 9223B-2016									
AB48118-A	E. Coli Holding Time - IDEXX Collert		7.17	hours		0.00	80053	7/15/24	15:55	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 18, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80054

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/18/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/18/2024 9:12:14



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 25, 2024

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Customer: SARA - Upper Martinez WWTP
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Sample Location: AA06835 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48133

Sample Matrix: Non Potable Water

Collection Date/Time: 07/16/2024 08:45

Receipt Date/Time: 07/16/2024 13:46

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 8:40:37



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 25, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48133-A	E. coli	√	10	MPN/100 mL		1	80070	7/16/24	15:09	RS/DMS
	SM 9223B-2016									
AB48133-A	E. Coli Holding Time - IDEXX Colilert		6.40	hours		0.00	80069	7/16/24	15:09	RS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT



July 25, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80070

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/25/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 8:40:37



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 24, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06854 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48148

Sample Matrix: Non Potable Water

Collection Date/Time: 07/17/2024 09:00

Receipt Date/Time: 07/17/2024 13:26

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/24/2024 13:40:56



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ANALYTICAL REPORT



July 24, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48148-A	E. coli	√	2	MPN/100 mL		1	80089	7/17/24	15:59	DMS/RS
	SM 9223B-2016									
AB48148-A	E. Coli Holding Time - IDEXX Collert		6.98	hours		0.00	80088	7/17/24	15:59	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 24, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80089

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

7/24/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/24/2024 13:40:56



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July 23, 2024

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Sample Location: AA06869 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48166
Sample Matrix: Non Potable Water

Collection Date/Time: 07/18/2024 08:50
Receipt Date/Time: 07/18/2024 13:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/23/2024 15:27.39



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ANALYTICAL REPORT



July 23, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48166-A	E. coli	√	<1	MPN/100 mL		1	80105	7/18/24	15:49	DMS/RS
	SM 9223B-2016									
AB48166-A	E. Coli Holding Time - IDEXX Collert		6.98	hours		0.00	80104	7/18/24	15:49	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80105

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/23/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/23/2024 15:27.39



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Sample Location: AA06917 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48188
Sample Matrix: Non Potable Water

Collection Date/Time: 07/19/2024 08:43
Receipt Date/Time: 07/19/2024 13:25

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/24/2024 13:44:02



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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48188-A	E. coli	√	17	MPN/100 mL		1	80117	7/19/24	15:04	DMS/AM
	SM 9223B-2016									
AB48188-A	E. Coli Holding Time - IDEXX Collert		6.35	hours		0.00	80116	7/19/24	15:04	DMS/AM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 24, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80117

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

7/24/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/24/2024 13:44:02



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July 29, 2024

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Sample Location: AA06929 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48195

Sample Matrix: Non Potable Water

Collection Date/Time: 07/20/2024 05:30

Receipt Date/Time: 07/20/2024 09:44

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: **AB48195-A** E. Coli Holding Time - IDEXX Colilert
Sample scratched due to exceeding 8-hour hold time.

AB48195-A E. coli
Sample scratched due to exceeding 8-hour hold time.

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48195-A	E. coli	√	Scratched	MPN/100 mL	HA*	1	80115	7/20/24	13:57	AM/MSR
	SM 9223B-2016									
AB48195-A	E. Coli Holding Time - IDEXX Collert		Scratched	hours	*	0.00	80114	7/20/24	13:57	AM/MSR

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:23.20



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ANALYTICAL REPORT



July 29, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80115

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/29/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:23.20



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July 29, 2024

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Sample Location: AA06902 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48213
Sample Matrix: Non Potable Water

Collection Date/Time: 07/21/2024 06:15
Receipt Date/Time: 07/21/2024 11:04

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:25.40



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ANALYTICAL REPORT



July 29, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48213-A	E. coli	√	30	MPN/100 mL		1	80133	7/21/24	13:18	MSR/DMS
	SM 9223B-2016									
AB48213-A	E. Coli Holding Time - IDEXX Colilert		7.05	hours		0.00	80132	7/21/24	13:18	MSR/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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ANALYTICAL REPORT



July 29, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80133

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/29/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:25.40



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July 29, 2024

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Sample Location: AA06888 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48232
Sample Matrix: Non Potable Water

Collection Date/Time: 07/22/2024 06:50
Receipt Date/Time: 07/22/2024 13:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: AB48232-A E. coli
Utility sample greater than 50 MPN/100mL.
Hold time was exceeded by 1 hours and 6 minutes.

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:28.01



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ANALYTICAL REPORT



July 29, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48232-A	E. coli	√	Scratched	MPN/100 mL	*HA	1	80145	7/22/24	15:56	DMS/RS
	SM 9223B-2016									
AB48232-A	E. Coli Holding Time - IDEXX Colilert		Scratched	hours		0.00	80144	7/22/24	15:56	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:28.01



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 29, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80145

Acceptance Criteria

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/29/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:28.01



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July 25, 2024

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Sample Location: AA06943 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48205

Sample Matrix: Non Potable Water

Collection Date/Time: 07/23/2024 08:35

Receipt Date/Time: 07/23/2024 13:31

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 8:43:43



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ANALYTICAL REPORT



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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48205-A	E. coli	√	2	MPN/100 mL		1	80122	7/23/24	16:04	RS/DMS
	SM 9223B-2016									
AB48205-A	E. Coli Holding Time - IDEXX Colilert		7.48	hours		0.00	80120	7/23/24	16:04	RS/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 8:43:43



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ANALYTICAL REPORT



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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80122

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/25/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 8:43:43



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Sample Location: AA06957 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48242

Sample Matrix: Non Potable Water

Collection Date/Time: 07/24/2024 08:10

Receipt Date/Time: 07/24/2024 13:39

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 16:25:16



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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48242-A	E. coli	√	<1	MPN/100 mL		1	80139	7/24/24	16:06	DMS
	SM 9223B-2016									
AB48242-A	E. Coli Holding Time - IDEXX Colilert		7.93	hours		0.00	80138	7/24/24	16:06	DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80139

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Acceptance Criteria

Nicholas Johnson
Quality Assurance Specialist I

7/25/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/25/2024 16:25:16



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Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Recipient is not authorized to print or copy this report, except in full without written approval of the laboratory. If you have received this report in error, please notify the San Antonio River Authority.

Sample Location: AA06979 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48264
Sample Matrix: Non Potable Water

Collection Date/Time: 07/25/2024 08:40
Receipt Date/Time: 07/25/2024 13:20

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:32.42



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 29, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48264-A	E. coli	√	2	MPN/100 mL		1	80152	7/25/24	16:16	DMS/RS
	SM 9223B-2016									
AB48264-A	E. Coli Holding Time - IDEXX Colilert		7.60	hours		0.00	80151	7/25/24	16:16	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:32.42



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ANALYTICAL REPORT



July 29, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80152

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/29/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:32.42



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 29, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA06994 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48278
Sample Matrix: Non Potable Water

Collection Date/Time: 07/26/2024 08:30
Receipt Date/Time: 07/26/2024 13:51

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:37.23



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 29, 2024

Page 2 of 3

ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48278-A	E. coli	√	<1	MPN/100 mL		1	80170	7/26/24	15:32	DMS/RS
	SM 9223B-2016									
AB48278-A	E. Coli Holding Time - IDEXX Colilert		7.03	hours		0.00	80169	7/26/24	15:32	DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:37.23



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ANALYTICAL REPORT



July 29, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80170

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

7/29/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/29/2024 15:37.23



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 05, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
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Fax #:210-661-9324

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Sample Location: AA07009 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48290
Sample Matrix: Non Potable Water

Collection Date/Time: 07/27/2024 07:25
Receipt Date/Time: 07/27/2024 10:08

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/5/2024 9:03.30



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 05, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48290-A	E. coli	√	<1	MPN/100 mL		1	80176	7/27/24	12:15	AG/DMS
	SM 9223B-2016									
AB48290-A	E. Coli Holding Time - IDEXX Colilert		4.83	hours		0.00	80175	7/27/24	12:15	AG/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 05, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80176

Acceptance Criteria

QC Analyte Name
Initial Blank for E. coli

Result
Absent

Units

Qualifier

Lower

Target
Absent

Upper

Jeanette Hernandez
Senior Quality Assurance Specialist

8/5/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/5/2024 9:03.30



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



July 31, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
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San Antonio, TX 78263

Fax #:210-661-9324

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Sample Location: AA07022 Upper Martinez Effluent 1523-01 E. coli MPN

Sample Number: AB48296

Sample Matrix: Non Potable Water

Collection Date/Time: 07/28/2024 08:40

Receipt Date/Time: 07/28/2024 10:24

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/31/2024 15:43:38



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 31, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48296-A	E. coli	√	<1	MPN/100 mL		1	80182	7/28/24	13:13	AG/DMS
	SM 9223B-2016									
AB48296-A	E. Coli Holding Time - IDEXX Collert		4.55	hours		0.00	80181	7/28/24	13:13	AG/DMS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



July 31, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80182

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

7/31/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 7/31/2024 15:43:38



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 01, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
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Sample Location: AA07036 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48300
Sample Matrix: Non Potable Water

Collection Date/Time: 07/29/2024 08:30
Receipt Date/Time: 07/29/2024 13:05

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 9:23:00



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 01, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48300-A	E. coli	√	3	MPN/100 mL		1	80196	7/29/24	15:46	AC/DMS/RS
	SM 9223B-2016									
AB48300-A	E. Coli Holding Time - IDEXX Colilert		7.27	hours		0.00	80195	7/29/24	15:46	AC/DMS/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 9:23:00



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ANALYTICAL REPORT



August 01, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80196

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

8/1/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 9:23:00



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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 01, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
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Fax #:210-661-9324

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Sample Location: AA07049 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48311
Sample Matrix: Non Potable Water

Collection Date/Time: 07/30/2024 08:50
Receipt Date/Time: 07/30/2024 13:19

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 9:26:05



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 01, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48311-A	E. coli	√	<1	MPN/100 mL		1	80206	7/30/24	14:46	DMS/AC/RS
	SM 9223B-2016									
AB48311-A	E. Coli Holding Time - IDEXX Colilert		5.93	hours		0.00	80205	7/30/24	14:46	DMS/AC/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 01, 2024

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80206

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

8/1/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 9:26:05



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 01, 2024

Page 1 of 3

Customer: SARA - Upper Martinez WWTP
Daniel Flores
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Fax #:210-661-9324

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Sample Location: AA07063 Upper Martinez Effluent 1523-01 E. coli MPN
Sample Number: AB48325
Sample Matrix: Non Potable Water

Collection Date/Time: 07/31/2024 08:40
Receipt Date/Time: 07/31/2024 13:21

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Zachary Jendrusch, Laboratory Supervisor, at (210) 302-3275.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 15:48:49



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 01, 2024

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ANALYTICAL RESULTS

Analysis		NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis		Analyst
Analysis Method								Date	Time	
AB48325-A	E. coli	√	<1	MPN/100 mL		1	80216	7/31/24	16:04	AC/RS
	SM 9223B-2016									
AB48325-A	E. Coli Holding Time - IDEXX Colilert		7.40	hours		0.00	80215	7/31/24	16:04	AC/RS

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 15:48:49



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Environmental Sciences Department Laboratory
ANALYTICAL REPORT



August 01, 2024

Page 3 of 3

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80216

QC Analyte Name

Initial Blank for E. coli

Result

Absent

Units

Qualifier

Lower

Target

Absent

Upper

Nicholas Johnson
Quality Assurance Specialist I

8/1/2024

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 8/1/2024 15:48:49

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 16

Agreement from Facility Accepting Sludge

Reference: Domestic Technical Report 1.0

Section 9 A

Attachment 16

Re: Permit Application

Applicant Name: San Antonio River Authority (CN600790620)


Type of Authorization: Permit Renewal

Site Name: Upper Martinez WWTP; WQ0010749-003; RN101514347

Martinez II Wastewater Treatment Plant (Permit No.WQ0010749-004) agrees to accept sewage sludge from the Upper Martinez WWTP (Permit No.WQ0010749-003). Sludge is piped from Upper Martinez to Martinez II for dewatering and further processing. Both Treatment Plants are owned and operated by the San Antonio River Authority.

If you have any questions or require any additional information, please call me at (210) 302-4200.

Sincerely,


Leamon Anderson
Utilities Operations Manager
San Antonio River Authority

8-15-24
Date

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 2

Plain Language Summary

Reference: Domestic Administrative Report 1.0

Section 8 F



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

San Antonio River Authority (CN600790620) operates Upper Martinez WWTP (RN101514347), a Wastewater Treatment Facility. The facility is located at 8203 Binz-Engleman Rd, in San Antonio, Bexar County, Texas 78244. This application is for a renewal to discharge 2,210,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N) and Escherichia coli (E.coli). Domestic wastewater is treated by mechanical bar screen, aeration basins, final clarifiers and ultraviolet disinfection.

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.

San Antonio River Authority (CN600790620) opera Upper Martinez WWTP (RN101514347), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 8203 Binz-Engleman Rd, en San Antonio, Condado de Bexar, Texas 78244. Esta solicitud es para un renovacion para descargar 2,210,000 galones por dia de aguas residuals domesticas tratadas.

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquímica carbonosa de oxígeno (CBOD₅), solidos totalmente suspendidos (TSS), nitrogeno ammoniacal (NH₃-N y Escherichia coli (E.coli). Aguas residuales domesictas. está tratado por reja mecanica, tanques de aireacion, clarificadores finales y desinfeccion ultravioleta.

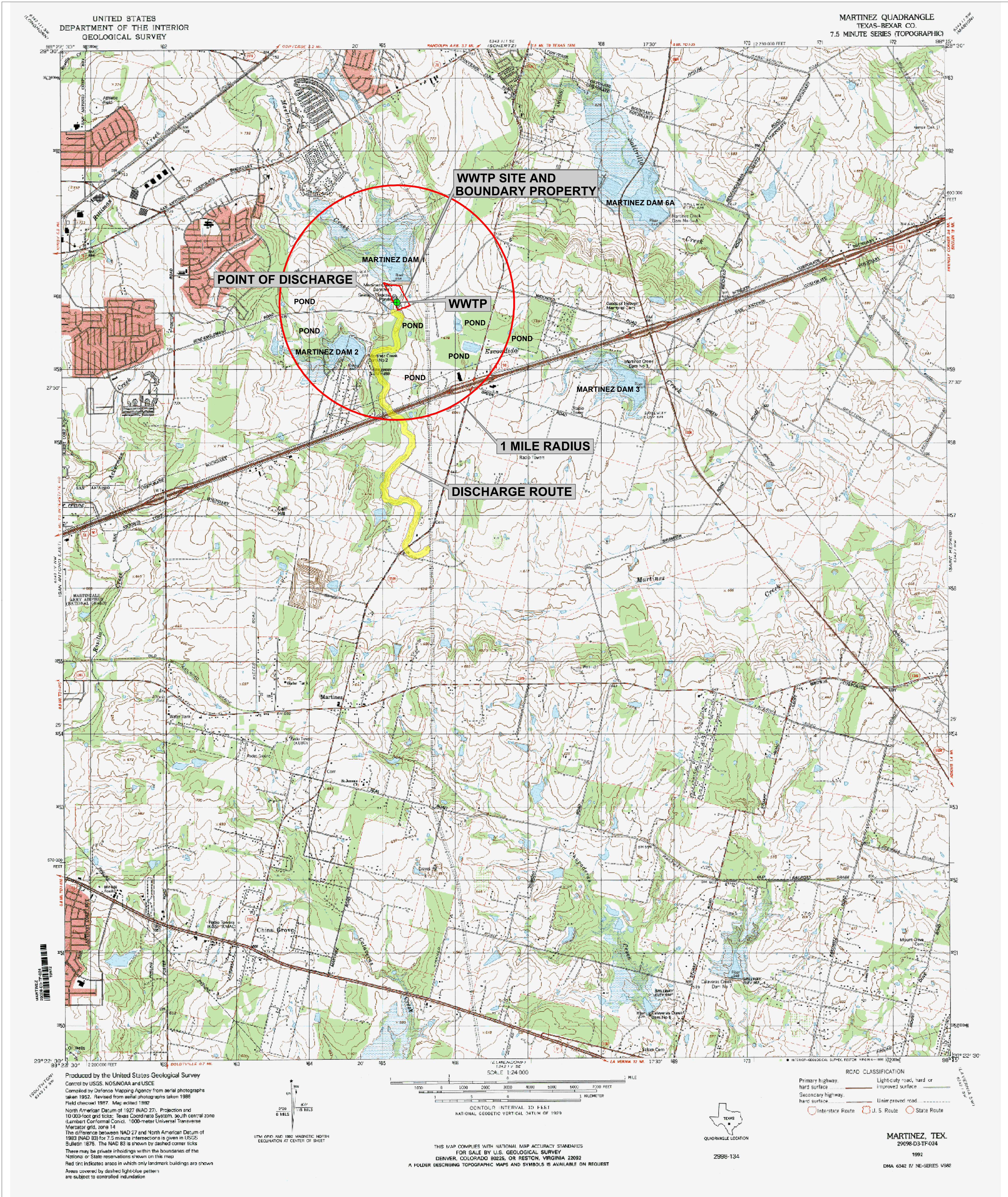
Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 5

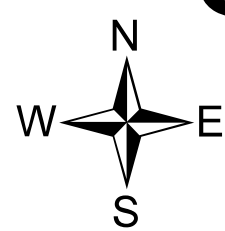
USGS Topographic Quadrangle Map (1:2400 scale)

Reference: Domestic Administrative Report 1.0

Section 13



Original USGS Topographic Map



Upper Martinez WWTP
Attachment 5

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 3

Supplemental Permit Information Form (SPIF)

Reference: Domestic Administrative Report 1.0

TCEQ Form 20971

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: San Antonio River Authority

Permit No. WQ00 10749-003

EPA ID No. TX 0024082

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

8203 Binz-Engleman Road San Antonio, TX 78244 in East Bexar County

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

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

First and Last Name: Ernest Munoz

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

Title: Quality Control Operator

Mailing Address: 100 E Guenther

City, State, Zip Code: San Antonio, TX 78204

Phone No.: (210) 302-4200 Ext.: Fax No.: (210) 661-9324

E-mail Address: emunoz@sariverauthority.org

2. List the county in which the facility is located: Bexar
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.

Discharged from plant to Martinez Creek; thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

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

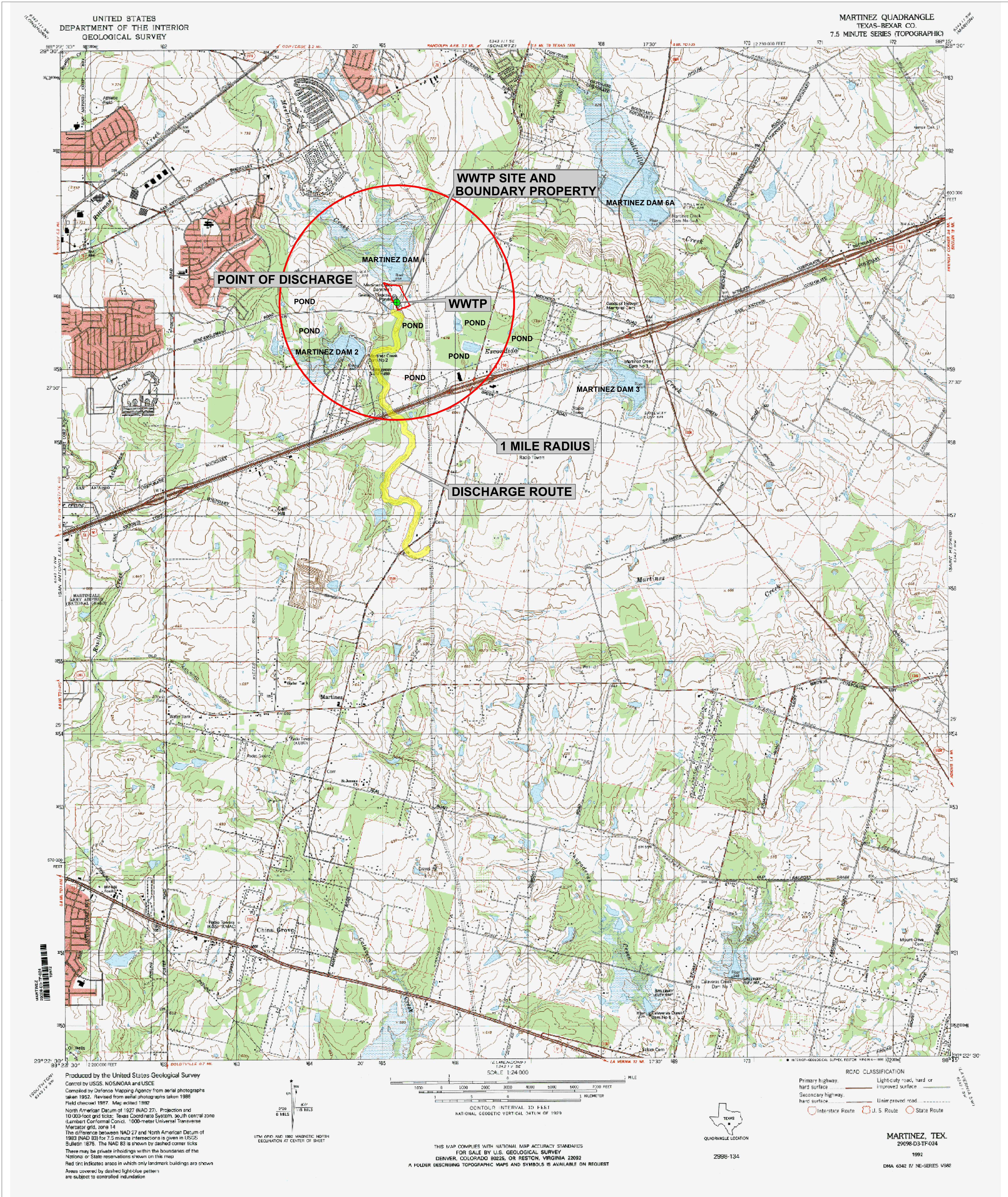
Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 4

USGS General Location Map

Reference: Supplemental Permit Information Form (SPIF)

TCEQ Form 20971, Item 5



Original USGS Topographic Map



Upper Martinez WWTP
Attachment 4

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Buffer Zone Map

This application is for a renewal, buffer zone map is not required.

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 6

Domestic Technical Report 1.0



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): 2.21

2-Hr Peak Flow (MGD): 6.63

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): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 07/01/1997

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.**

See Attachment 11

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)
See Attachment 12		

C. Process Flow Diagram

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

Attachment: 13

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

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

- Latitude: 29.468874
- Longitude: -98.328309

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: 14

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

Portions of East Bexar County.

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
Upper Martinez	SARA	Publicly Owned	34,524
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

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: 09/16/1996

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

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

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

N/A

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☒ Yes ☐ No

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

TXR05 K743 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 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 BOD₅ concentration of the sludge, and the design BOD₅ 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 BOD₅ concentration of the septic waste, and the design BOD₅ 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	5	5	1	Comp	7/16/24 7:15 am
Total Suspended Solids, mg/l	4	4	1	Comp	7/16/24 7:15 am
Ammonia Nitrogen, mg/l	0.1	0.1	1	Comp	7/16/24 7:15 am
Nitrate Nitrogen, mg/l	<0.2	<0.2	1	Comp	7/16/24 7:15 am
Total Kjeldahl Nitrogen, mg/l	6	6	1	Comp	7/16/24 7:15 am
Sulfate, mg/l	91	91	1	Comp	7/16/24 7:15 am
Chloride, mg/l	123	123	1	Comp	7/16/24 7:15 am
Total Phosphorus, mg/l	1.78	1.78	1	Comp	7/16/24 7:15 am
pH, standard units	7.8 min	8.2 max	10	Grab	July 2024
Dissolved Oxygen*, mg/l	5.29 min	5.98 max	10	Grab	July 2024
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
<i>E.coli</i> (CFU/100ml) freshwater	2	30	29	Grab	July 2024
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	496	496	1	Comp	7/16/24 7:15 am
Electrical Conductivity, μ mohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	7/16/24 9:50 am
Alkalinity (CaCO ₃)*, mg/l	182	182	1	Comp	7/16/24 7:15 am

*TPDES permits only

†TLAP permits only

See Attachment 15

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l			N/A		
Total Dissolved Solids, mg/l			N/A		
pH, standard units			N/A		
Fluoride, mg/l			N/A		
Aluminum, mg/l			N/A		
Alkalinity (CaCO ₃), mg/l			N/A		

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Joe Luis Martinez Jr.

Facility Operator's License Classification and Level: Class B Wastewater

Facility Operator's License Number: WW0057434

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 \geq 1 MGD
- ☐ Serves \geq 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: Transported to another WWTP for sludge processing.

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
Other	Off-site Third-Party Handler or Preparer	Not Applicable	19.86 - July 2024 Total	N/A	N/A
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): Transported to another WWTP through gravity wastewater collection pipeline.

See Attachment 16

D. Disposal site

Disposal site name: Martinez II WWTP

TCEQ permit or registration number: WQ0010749-004

County where disposal site is located: Bexar

E. Transportation method

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

Name of the hauler: San Antonio River Authority

Hauler registration number: 21858

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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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 1×10^{-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:

Reuse Water Authorization No. R10749-003

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:

In reference to Agreed Order Docket No 2020-0629-MWD-E an investigation was conducted on February 18, 2020, due to a blockage of rags and grease that led to approximately 87,000 gallons of untreated wastewater to be discharged into Martinez Creek. The discharge killed approximately 27 fish. The discharge was ceased and contaminated water that was present in the creek was pumped back into the collection system via manhole until ammonia levels were reduced. Affected areas were cleaned and all fish were collected and disposed of properly. Due to the Order a penalty was assessed of \$5,625. The Order assessed on November 4, 2020, will terminate five years from the effective date and remains active.

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: Leamon Anderson

Title: Utilities Operations Manager

Signature: _____

Date: 8-15-24

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 7

Domestic Technical Report 2.0

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 to Section 2. If **yes**, provide the following:

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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: [Click to enter text.](#)

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

Average depth of water body within a 500-foot radius of discharge point, in feet:
[Click to enter text.](#)

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: [Click to enter text.](#)

B. Flow characteristics

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

- ☐ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

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

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☐ Personal observation
- ☐ Other, specify: [Click to enter text.](#)

C. Downstream perennial confluences

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

[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

☐ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

B. Waterbody uses

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

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input type="checkbox"/> 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

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 8A

Domestic Technical Report 4.0

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: Date July 16, 2024 grab 0950 and composite 0715

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50		1	50
Aldrin	<0.01		1	0.01
Aluminum	12		1	2.5
Anthracene	<10		1	10
Antimony	<5		1	5
Arsenic	<0.5		1	0.5
Barium	77		1	3
Benzene	<10		1	10
Benzidine	<50		1	50
Benzo(a)anthracene	<5		1	5
Benzo(a)pyrene	<5		1	5
Bis(2-chloroethyl)ether	<10		1	10
Bis(2-ethylhexyl)phthalate	<10		1	10
Bromodichloromethane	<10		1	10
Bromoform	<10		1	10
Cadmium	<1		1	1
Carbon Tetrachloride	<2		1	2
Carbaryl	<5		1	5
Chlordane*	<0.2		1	0.2
Chlorobenzene	<10		1	10
Chlorodibromomethane	<10		1	10

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02		1	0.02
Endosulfan Sulfate	<0.1		1	0.1
Endrin	<0.02		1	0.02
Ethylbenzene	<10		1	10
Fluoride	<500		1	500
Guthion	<0.1		1	0.1
Heptachlor	<0.01		1	0.01
Heptachlor Epoxide	<0.01		1	0.01
Hexachlorobenzene	<5		1	5
Hexachlorobutadiene	<10		1	10
Hexachlorocyclohexane (alpha)	<0.05		1	0.05
Hexachlorocyclohexane (beta)	<0.05		1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05		1	0.05
Hexachlorocyclopentadiene	<10		1	10
Hexachloroethane	<20		1	20
Hexachlorophene	<10		1	10
Lead	<0.5		1	0.5
Malathion	<0.1		1	0.1
Mercury	<0.005		1	0.005
Methoxychlor	<2		1	2
Methyl Ethyl Ketone	<50		1	50
Mirex	<0.02		1	0.02
Nickel	<2		1	2
Nitrate-Nitrogen	127		1	100
Nitrobenzene	<10		1	10
N-Nitrosodiethylamine	<20		1	20
N-Nitroso-di-n-Butylamine	<20		1	20
Nonylphenol	<333		1	333
Parathion (ethyl)	<0.1		1	0.1
Pentachlorobenzene	<20		1	20
Pentachlorophenol	<5		1	5
Phenanthrene	<10		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	<0.2		1	0.2
Pyridine	<20		1	20
Selenium	<5		1	5
Silver	<0.5		1	0.5
1,2,4,5-Tetrachlorobenzene	<20		1	20
1,1,2,2-Tetrachloroethane	<10		1	10
Tetrachloroethylene	<10		1	10
Thallium	<0.5		1	0.5
Toluene	<10		1	10
Toxaphene	<0.3		1	0.3
2,4,5-TP (Silvex)	<0.3		1	0.3
Tributyltin (see instructions for explanation)	N/A		1	0.01
1,1,1-Trichloroethane	<10		1	10
1,1,2-Trichloroethane	<10		1	10
Trichloroethylene	<10		1	10
2,4,5-Trichlorophenol	<50		1	50
TTHM (Total Trihalomethanes)	<10		1	10
Vinyl Chloride	<10		1	10
Zinc	19		1	5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☒ Composite ☒

Date and time sample(s) collected: Date July 16, 2024 grab 0950 and composite 0715

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	<5		1	5
Arsenic	<0.5		1	0.5
Beryllium	<0.5		1	0.5
Cadmium	<1		1	1
Chromium (Total)	<3		1	3
Chromium (Hex)	<3		1	3
Chromium (Tri) (*1)	<3		1	N/A
Copper	3		1	2
Lead	<0.5		1	0.5
Mercury	<0.005		1	0.005
Nickel	<2		1	2
Selenium	<5		1	5
Silver	<0.5		1	0.5
Thallium	<0.5		1	0.5
Zinc	19		1	5
Cyanide (*2)	<10		1	10
Phenols, Total	17		1	10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50		1	50
Acrylonitrile	<50		1	50
Benzene	<10		1	10
Bromoform	<10		1	10
Carbon Tetrachloride	<2		1	2
Chlorobenzene	<10		1	10
Chlorodibromomethane	<10		1	10
Chloroethane	<50		1	50
2-Chloroethylvinyl Ether	<10		1	10
Chloroform	<10		1	10
Dichlorobromomethane [Bromodichloromethane]	<10		1	10
1,1-Dichloroethane	<10		1	10
1,2-Dichloroethane	<10		1	10
1,1-Dichloroethylene	<10		1	10
1,2-Dichloropropane	<10		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10		1	10
1,2-Trans-Dichloroethylene	<10		1	10
Ethylbenzene	<10		1	10
Methyl Bromide	<50		1	50
Methyl Chloride	<50		1	50
Methylene Chloride	<20		1	20
1,1,2,2-Tetrachloroethane	<10		1	10
Tetrachloroethylene	<10		1	10
Toluene	<10		1	10
1,1,1-Trichloroethane	<10		1	10
1,1,2-Trichloroethane	<10		1	10
Trichloroethylene	<10		1	10
Vinyl Chloride	<10		1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<10		1	10
2,4-Dichlorophenol	<10		1	10
2,4-Dimethylphenol	<10		1	10
4,6-Dinitro-o-Cresol	<50		1	50
2,4-Dinitrophenol	<50		1	50
2-Nitrophenol	<20		1	20
4-Nitrophenol	<50		1	50
P-Chloro-m-Cresol	<10		1	10
Pentalchlorophenol	<5		1	5
Phenol	<10		1	10
2,4,6-Trichlorophenol	<10		1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<10		1	10
Acenaphthylene	<10		1	10
Anthracene	<10		1	10
Benzidine	<50		1	50
Benzo(a)Anthracene	<5		1	5
Benzo(a)Pyrene	<5		1	5
3,4-Benzofluoranthene	<10		1	10
Benzo(ghi)Perylene	<20		1	20
Benzo(k)Fluoranthene	<5		1	5
Bis(2-Chloroethoxy)Methane	<10		1	10
Bis(2-Chloroethyl)Ether	<10		1	10
Bis(2-Chloroisopropyl)Ether	<10		1	10
Bis(2-Ethylhexyl)Phthalate	<10		1	10
4-Bromophenyl Phenyl Ether	<10		1	10
Butyl benzyl Phthalate	<10		1	10
2-Chloronaphthalene	<10		1	10
4-Chlorophenyl phenyl ether	<10		1	10
Chrysene	<5		1	5
Dibenzo(a,h)Anthracene	<5		1	5
1,2-(o)Dichlorobenzene	<10		1	10
1,3-(m)Dichlorobenzene	<10		1	10
1,4-(p)Dichlorobenzene	<10		1	10
3,3-Dichlorobenzidine	<5		1	5
Diethyl Phthalate	<10		1	10
Dimethyl Phthalate	<10		1	10
Di-n-Butyl Phthalate	<10		1	10
2,4-Dinitrotoluene	<10		1	10
2,6-Dinitrotoluene	<10		1	10
Di-n-Octyl Phthalate	<10		1	10
1,2-Diphenylhydrazine (as Azo- benzene)	<20		1	20
Fluoranthene	<10		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAI (µg/l)
Fluorene	<10		1	10
Hexachlorobenzene	<5		1	5
Hexachlorobutadiene	<10		1	10
Hexachlorocyclo-pentadiene	<10		1	10
Hexachloroethane	<20		1	20
Indeno(1,2,3-cd)pyrene	<5		1	5
Isophorone	<10		1	10
Naphthalene	<10		1	10
Nitrobenzene	<10		1	10
N-Nitrosodimethylamine	<50		1	50
N-Nitrosodi-n-Propylamine	<20		1	20
N-Nitrosodiphenylamine	<20		1	20
Phenanthrene	<10		1	10
Pyrene	<10		1	10
1,2,4-Trichlorobenzene	<10		1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.01		1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05		1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05		1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05		1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05		1	0.05
Chlordane	<0.2		1	0.2
4,4-DDT	<0.02		1	0.02
4,4-DDE	<0.1		1	0.1
4,4,-DDD	<0.1		1	0.1
Dieldrin	<0.02		1	0.02
Endosulfan I (alpha)	<0.01		1	0.01
Endosulfan II (beta)	<0.02		1	0.02
Endosulfan Sulfate	<0.1		1	0.1
Endrin	<0.02		1	0.02
Endrin Aldehyde	<0.1		1	0.1
Heptachlor	<0.01		1	0.01
Heptachlor Epoxide	<0.01		1	0.01
PCB-1242	<0.2		1	0.2
PCB-1254	<0.2		1	0.2
PCB-1221	<0.2		1	0.2
PCB-1232	<0.2		1	0.2
PCB-1248	<0.2		1	0.2
PCB-1260	<0.2		1	0.2
PCB-1016	<0.2		1	0.2
Toxaphene	<0.3		1	0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

- ☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

N/A

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

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 Equivalenc y 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						

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 8B

Domestic Technical Report 4.0


Pollutant Analysis of Treated Effluent

POLLUTION CONTROL SERVICES



REVISED ¹

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0715	PCS Sample #: 768089 Page 1 of 5 Date/Time Received: 07/16/2024 11:11 Report Date: 08/09/2024 Approved by:  Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
BOD5		5	mg/L	3	07/16/2024 15:33	SM 5210 B	GQM
CBOD5		5	mg/L	3	07/16/2024 15:33	SM 5210 B	GQM
Chloride IC		123	mg/L	20	07/17/2024 08:55	EPA 300.0	JAS
Conductivity, Specific		896	µmhos/cm at 25° C	1	07/16/2024 11:56	SM 2510B	LCC
Nitrate-N_IC		0.127	mg/L	0.1	07/16/2024 13:54	EPA 300.0	JAS
Phosphorus, Total		1.78	mg/L	0.10	07/24/2024 05:20	SM 4500-P/B/E	JAS
Sulfate_IC	R	91	mg/L	20	07/17/2024 08:55	EPA 300.0	JAS
Total Dissolved Solids		496	mg/L	10	07/17/2024 15:10	SM 2540C	CLH/PML

Test Description	Precision	Quality Assurance Summary				MSD	UCL	LCS	LCS Limit	Blank
		Limit	LCL	MS	MSD					
BOD5	8	23	N/A	N/A	N/A	N/A	N/A	180	167 - 228	
CBOD5	8	23	N/A	N/A	N/A	N/A	N/A	180	167 - 228	
Chloride IC	2	10	95	101	99	102	99	85 - 115		
Conductivity, Specific	N/A	N/A	N/A			N/A				
Nitrate-N_IC	1	20	70	100	101	130	94	85 - 115		
Phosphorus, Total	<1	10	91	102	102	103	100	85 - 115		
Sulfate_IC	<1	10	94	*102	*102	101	105	85 - 115		
Total Dissolved Solids	1.2	10	N/A	N/A	N/A	N/A				

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
 R Spike recovery outside control limits due to matrix effect - LCS within limits

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt',
 RL = Reporting Limits
 QC Data Reported in %, Except BOD in mg/L
 1 - See Sample LogIn Checklist Comments for Revision Information

POLLUTION CONTROL SERVICES



REVISED ¹

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0715	PCS Sample #: 768089 Page 2 of 5 Date/Time Received: 07/16/2024 11:11 Report Date: 08/09/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Total Suspended Solids	4	mg/L	1	07/16/2024 15:40	SM 2540 D	PML
Ammonia-N (ISE)	0.1	mg/L	0.1	07/16/2024 14:50	SM 4500-NH3 D	BMR
Fluoride IC	0.21	mg/L	0.20	07/16/2024 13:54	EPA 300.0	JAS
Kjeldahl-N, Total	6	mg/L	1	07/18/2024 09:30	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	182	mg/L	10	07/24/2024 08:30	SM 2320 B	LCC
Arsenic/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Barium/ICP (Total)	0.077	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.001	mg/L	0.001	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL

Test Description	Precision	Quality Assurance Summary				MS	MSD	UCL	LCS	LCS Limit	Blank
		Limit	LCL	MS	MSD						
Total Suspended Solids	3	10	N/A					N/A			
Ammonia-N (ISE)	2	10	80	109	106	120	90	85 - 115			
Fluoride IC	2	10	87	100	103	105	105	85 - 115			
Kjeldahl-N, Total	2	10	90	97	99	109	101	85 - 115			<1
Alkalinity, Total (@pH 4.5)	<1	10	95	98	98	107	100	85 - 115			
Arsenic/ICP MS	4	20	70	111	107	130	105	85 - 115			
Barium/ICP (Total)	10	20	75	93	102	125	105	85 - 115			
Cadmium/ICP (Total)	<1	20	75	100	100	125	100	85 - 115			

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits

1 - See Sample LogIn Checklist Comments for Revision Information

POLLUTION CONTROL SERVICES



REVISED ¹

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0715	PCS Sample #: 768089 Page 3 of 5 Date/Time Received: 07/16/2024 11:11 Report Date: 08/09/2024

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Chromium/ICP (Total)		<0.003	mg/L	0.003	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL
Copper/ICP (Total)		0.003	mg/L	0.002	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL
Lead/ICP MS		<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Aluminum/ICP (Total)		0.012	mg/L	0.010	07/24/2024 11:57	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)		<0.0005	mg/L	0.0005	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL
Trivalent Chromium		<0.003	mg/L	N/A	07/24/2024 11:57	Calculation	DJL
Hexavalent Chrome	R	<0.003	mg/L	0.003	07/17/2024 15:29	SM 3500-Cr B	DJL
Nickel/ICP (Total)		<0.002	mg/L	0.002	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL

Test Description	Precision	Quality Assurance Summary							Blank
		Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Chromium/ICP (Total)	2	20	75	98	100	125	100	85 - 115	
Copper/ICP (Total)	10	20	75	99	109	125	105	85 - 115	
Lead/ICP MS	5	20	70	111	106	130	109	85 - 115	
Aluminum/ICP (Total)	<1	20	75	109	109	125	100	85 - 115	
Beryllium/ICP (Total)	2	20	75	105	107	125	102	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	<1	20	75	*69	*69	125	101	85 - 115	
Nickel/ICP (Total)	3	20	75	95	98	125	100	85 - 115	

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
 R Spike recovery outside control limits due to matrix effect - LCS within limits

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits

1 - See Sample LogIn Checklist Comments for Revision Information

POLLUTION CONTROL SERVICES



REVISED ¹

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0715	PCS Sample #: 768089 Page 4 of 5 Date/Time Received: 07/16/2024 11:11 Report Date: 08/09/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Zinc/ICP (Total)	0.019	mg/L	0.005	08/09/2024 13:27	EPA 200.7 / 6010 B	DJL
Antimony/ICP MS	<0.005	mg/L	0.005	07/19/2024 13:04	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	07/19/2024 13:04	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	07/19/2024 13:04	EPA 200.8	DJL
Pesticides 617	See Attached				DHL	
604.1 Hexachlorophene	See Attached				DHL	
Semi Volatiles 625	See Attached				DHL	

Test Description	Precision	Quality Assurance Summary							Blank
		Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Zinc/ICP (Total)	<1	20	75	98	98	125	100	85 - 115	
Antimony/ICP MS	5	20	70	109	104	130	104	85 - 115	
Thallium/ICP MS	5	20	70	103	98	130	101	85 - 115	
Selenium/ICP MS	3	20	70	105	101	130	105	85 - 115	
Silver/ICP MS	3	20	70	99	96	130	102	85 - 115	
Pesticides 617	See Attached Report for Quality Assurance Information								
604.1 Hexachlorophene	See Attached Report for Quality Assurance Information								
Semi Volatiles 625	See Attached Report for Quality Assurance Information								

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits

1 - See Sample LogIn Checklist Comments for Revision Information

POLLUTION CONTROL SERVICES



REVISED ¹

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0715	PCS Sample #: 768089 Page 5 of 5 Date/Time Received: 07/16/2024 11:11 Report Date: 08/09/2024

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Pesticides 608	See Attached				DHL	
Pesticides 632	See Attached				DHL	
Pesticide 1657	See Attached				DHL	
Herbicides 615	See Attached				SPL	

Test Description	Quality Assurance Summary								Blank
	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	
Pesticides 608	See Attached Report for Quality Assurance Information								
Pesticides 632	See Attached Report for Quality Assurance Information								
Pesticide 1657	See Attached Report for Quality Assurance Information								
Herbicides 615	See Attached Report for Quality Assurance Information								

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.


These analytical results relate only to the sample tested.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits

1 - See Sample LogIn Checklist Comments for Revision Information

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Daniel Flores San Antonio River Authority 100 E. Guenther St San Antonio, TX 78204	Project Name: Upper Martinez Major Permit Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 07/16/2024 0950	PCS Sample #: 768090 Page 1 of 1 Date/Time Received: 07/16/2024 11:11 Report Date: 08/01/2024 Approved by:  Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Oil and Grease (H.E.M.)		<5.0	mg/L	5	07/24/2024 10:45	EPA 1664 Rev	EMV
Mercury/CVAFS		<0.000005	mg/L	0.000005	07/23/2024 09:15	EPA 245.7	DJL
Phenols, Distillable		See Attached				SPL	
Cyanide, Amenable	+	See Attached				DHL	
Volatiles 624		See Attached				DHL	

Test Description	Precision	Quality Assurance Summary				UCL	LCS	LCS Limit	Blank
		Limit	LCL	MS	MSD				
Oil and Grease (H.E.M.)	<1	18	N/A	N/A	N/A	N/A	93	78 - 114	
Mercury/CVAFS	3	20	70	78	81	130	92	70 - 130	<1.8ng/L
Phenols, Distillable	See Attached Report for Quality Assurance Information								
Cyanide, Amenable	See Attached Report for Quality Assurance Information								
Volatiles 624	See Attached Report for Quality Assurance Information								

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

¹ Subcontract Work - NELAP Certified Lab

These analytical results relate only to the sample tested.
 All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
 RL = Reporting Limits

POLLUTION CONTROL SERVICES

Chain of Custody Number
768089

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION				REPORT INFORMATION													
Name: San Antonio River Authority				Attention: Russell Neal		Phone: (210) 844-0201		Fax: (210) 661-9324									
SAMPLE INFORMATION				Requested Analysis													
Project Information: Upper Martinez - TCEQ Major Permit Renewal Report "Soils" <input type="checkbox"/> As Is <input type="checkbox"/> Dry Wt.			Collected By: <u>Ernest Muñoz</u>														
Client / Field Sample ID	Collected		Field Chlorine Residual mg/L	Composite or Grab	Matrix	Type	Number	Preservative	CBOD, TSS, TDS, SO ₄ , Cl, Sulfide, HecO, Tric, NO ₃ , Talk, F,	NH ₃ N, TKN, TPOAP, Metals*	G04, I Hec, Herb 615, Pest 1637, 608, 617, 632, SVOC G25	FOG (HEM)	VOC 624	CN-A	Phenol (Dist)	Low Level Hg	Instructions/Comments: *Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, SbMS, AsMS, PbMS, SeMS, AgMS, TIMS
	Date	Time			DW-Drinking Water; NPW-Non-potable water; WW-Wastewater; LW-Liquid Waste												
Effluent	Start: 7-15-24	Start: 9:15 am		<input checked="" type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input checked="" type="checkbox"/> P		<input checked="" type="checkbox"/> H ₂ SO ₄ <input checked="" type="checkbox"/> HNO ₃	X	X	X						768089
	End: 7-16-24	End: 7:15 am		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input checked="" type="checkbox"/> G	10	<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
Effluent	Start: 7-16-24	Start: 9:50 am		<input checked="" type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input checked="" type="checkbox"/> P		<input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃				X	X	X	X	X	768090
	End: 7-16-24	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input checked="" type="checkbox"/> G	10	<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									
	Start:	Start:		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW	<input type="checkbox"/> P		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃									
	End:	End:		<input type="checkbox"/> G	<input type="checkbox"/> WW <input type="checkbox"/> Soil	<input type="checkbox"/> G		<input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH									

Required Turnaround: ☐ Routine (6-10 days) ☒ EXPEDITE: (See Surcharge Schedule) ☐ < 8 Hrs. ☐ < 16 Hrs. ☐ < 24 Hrs. ☐ 5 days ☐ Other: _____ Rush Charges Authorized by: _____

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Hold for client pick up Container Type: P = Plastic, G = Glass, O = Other Carrier ID: _____

Relinquished By: <u>[Signature]</u>	Date: 7-16-24	Time: 11:11 am	Received By: <u>[Signature]</u>	Date: 7-16-24	Time: 1111
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Rev. Multiple Sample COC_20180628

1532 Universal City Blvd., Ste. 100, Universal City, Texas 78148
P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

Z:\COC\F\Fredericksburg_City_of\FredericksburgTCEQPermit

Login at www.pcslab.net

POLLUTION CONTROL SERVICES

Chain of Custody Number

768089

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION				REPORT INFORMATION				Phone: (210) 844-0201				Fax: (210) 661-9324						
Name: San Antonio River Authority				Attention: Russell Neal														
SAMPLE INFORMATION				Requested Analysis														
Project Information:				Collected By: Ernest Muñoz														
Upper Martinez - TCEQ Major Permit Renewal																		
Report "Soils" <input type="checkbox"/> As Is <input type="checkbox"/> Dry Wt.																		
Client / Field Sample ID	Collected		Field Chlorine Residual mg/L	Composite or Grab	Matrix	Type	Number	Preservative	CBOD, TSS, TDS, SO ₄ , CL, SpCond, HexCr, TrCr, NO ₃ N, Talk, F.	NH ₃ N, TKN, TPO ₄ P, Metals*	604 l Hex, Herb 615, Pest 1657, 608, 617, 632, SVOC 625	FOG (HEM)	VOC 624	CN-A	Phenol (Dist)	Low Level Hg	Instructions/Comments:	
	Date	Time																
Effluent	Start: 7-15-24	Start: 9:15 am		<input checked="" type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	10	<input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	X	X	X							PCS Sample Number 768089 <input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End: 7-16-24	End: 7:15 am																
Effluent	Start: 7-16-24	Start: 9:50 am		<input type="checkbox"/> C <input checked="" type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	10	<input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE				X	X	X	X	X		PCS Sample Number 768090 <input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End: 7-16-24	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																
	Start:	Start:		<input type="checkbox"/> C <input type="checkbox"/> G	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₃ PO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE										<input type="checkbox"/> AS <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:
	End:	End:																

Required Turnaround: ☐ Routine (6-10 days)

EXPEDITE: (See Surcharge Schedule)

☐ < 8 Hrs. ☐ < 16 Hrs. ☐ < 24 Hrs. ☐ 5 days ☐ Other:

Rush Charges Authorized by:

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Hold for client pick up

Container Type: P = Plastic, G = Glass, O = Other

Carrier ID:

Relinquished By:

Date: 7-16-24

Time: 11:11 am

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date: 7-16-24

Time: 1111

Rev. Multiple Sample COC 20180628

1532 Universal City Blvd., Ste. 100, Universal City, Texas 78148

P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

Z:\COC\F\Fredericksburg_City_of\FredericksburgTCEQPermit

Login at www.pcslab.net

POLLUTION CONTROL SERVICES

1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
Facsimile 210.658.7903
210.340.0343

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

TO: SPL LAB Corp
2600 Dudley Road
Kilgore, TX 75662

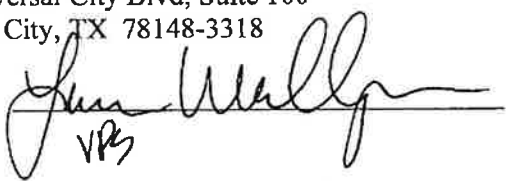
Relinquished by: Lauren Wallgren
Date/Time: 07/16/2024 @ 1500
Received by:
Date/Time:

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
768089	07/16/2024	0715	Herbicides 615	Ice	Std
768090	07/16/2024	0950	Phenols, Distillable	H ₂ SO ₄	Std

Comments/Special Instructions:

Unless otherwise requested, send results and invoice to:

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318

Authorized by: 
VPs
Chadwood SPL

Date: 7-16-24
7/17/24 1030
7/17/24 1030



PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Printed 07/31/2024
16:39

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1110838_r10_05_ProjectQC	SPL Kilgore Project P:1110838 C:PCSL Project Quality Control Groups	2
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SAMPLE CROSS REFERENCE

Project
1110838

Pollution Control Services Laboratories
 Chuck Wallgren
 1532 Universal City Blvd.
 Suite 100
 Universal City, TX 78148

Printed 7/31/2024 Page 1 of 1
 768089 WW

Sample	Sample ID	Taken	Time	Received
2317023	768089	07/16/2024	07:15:00	07/17/2024

Bottle 01 Client Supplied Amber Glass

Bottle 02 Prepared Bottle: 2 mL Autosampler Vial (Batch 1129458) Volume: 10.00000 mL <== Derived from 01 (969 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	02	1129458	07/22/2024	1131094	07/30/2024

Sample	Sample ID	Taken	Time	Received
2317024	768090	07/16/2024	09:50:00	07/17/2024

Bottle 01 Client supplied H2SO4 Amber Glass

Bottle 02 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1128849) Volume: 6.00000 mL <== Derived from 01 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 420.4 1	02	1128849	07/18/2024	1129506	07/22/2024

Email: Kilgore.ProjectManagement@spllabs.com

Report Page 2 of 9



PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Page 1 of 3

Project

1110838

Printed: 07/31/2024

RESULTS

Sample Results

2317023 768089

Received: 07/17/2024

Non-Potable Water

Collected by: Client
Taken: 07/16/2024

Pollution Control Se
07:15:00

PO:

EPA 615

Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1131094 07/30/2024 18:21:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.516	ug/L	0.516	S	94-75-7	02
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	02

2317024 768090

Received: 07/17/2024

Non-Potable Water

Collected by: Client
Taken: 07/16/2024

Pollution Control Se
09:50:00

PO:

EPA 420.4 I

Prepared: 1128849 07/18/2024 07:53:44 Analyzed 1129506 07/22/2024 13:22:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	0.017	mg/L	0.005			02

Sample Preparation

2317023 768089

Received: 07/17/2024

07/16/2024

EPA 615

Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1129458 07/22/2024 14:40:00 MCC

NELAC	Esterification of Sample	10/969	ml				01
-------	--------------------------	--------	----	--	--	--	----

EPA 615

Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1131094 07/30/2024 18:21:00 KAP



Report Page 3 of 9

PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

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Project
1110838

Printed: 07/31/2024

2317023 768089

Received: 07/17/2024

07/16/2024

EPA 615

Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1131094 07/30/2024 18:21:00 KAP

NELAC Herbicides by GC

Entered

02

2317024 768090

Received: 07/17/2024

07/16/2024

EPA 420.4 I

Prepared: 1128849 07/18/2024 07:53:44 Analyzed 1128849 07/18/2024 07:53:44 AMB

NELAC Phenol Distillation

6/6

ml

01

Qualifiers:

S - Standard reads lower than desired

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation

z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.



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2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914



SPL
The Science of Sure

1
2

PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Page 3 of 3

Project

1110838

Printed: 07/31/2024

Bill Peery

Bill Peery, MS, VP Technical Services



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QUALITY CONTROL



SPL
The Science of Sure

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Chuck Wallgren
1532 Universal City Blvd.
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Project

1110838

Printed 07/31/2024

Analytical Set 1129506

EPA 420.4 1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1128849	ND	0.003	0.005	mg/L	126574400

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.205	0.200	mg/L	102	90.0 - 110	126574371
Phenolics, Total Recoverable	0.193	0.200	mg/L	96.5	90.0 - 110	126574380
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	126574391
Phenolics, Total Recoverable	0.198	0.200	mg/L	99.0	90.0 - 110	126574402
Phenolics, Total Recoverable	0.195	0.200	mg/L	97.5	90.0 - 110	126574412
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	126574421

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Phenolics, Total Recoverable	2316283	0.013	0.019	mg/L	37.5 *	20.0
Phenolics, Total Recoverable	2316886	0.017	0.018	mg/L	5.71	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	126574370

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phenolics, Total Recoverable	1128849	0.187	0.188	0.200	90.0 - 110	93.5	94.0	mg/L	0.533	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Phenolics, Total Recoverable	2316283	0.159	0.019	0.200	mg/L	70.0	90.0 - 110	126574406 *
Phenolics, Total Recoverable	2316886	0.171	0.018	0.200	mg/L	76.5	90.0 - 110	126574409 *

Analytical Set 1131094

EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1129458	ND	0.159	0.500	ug/L	126611370
2,4,5-TP (Silvex)	1129458	ND	0.0893	0.300	ug/L	126611370

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.8	80.0 - 115	126611369
2,4 Dichlorophenoxyacetic acid	102	150	ug/L	67.9	80.0 - 115 *	126611383
2,4 Dichlorophenoxyacetic acid	110	150	ug/L	73.3	80.0 - 115 *	126611390
2,4 Dichlorophenoxyacetic acid	123	150	ug/L	82.3	80.0 - 115	126611404
2,4,5-TP (Silvex)	144	150	ug/L	96.1	80.0 - 115	126611369
2,4,5-TP (Silvex)	133	150	ug/L	88.6	80.0 - 115	126611383
2,4,5-TP (Silvex)	140	150	ug/L	93.3	80.0 - 115	126611390
2,4,5-TP (Silvex)	143	150	ug/L	95.2	80.0 - 115	126611404

Email: Kilgore.ProjectManagement@spllabs.com



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QUALITY CONTROL



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PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Project
1110838

Printed 07/31/2024

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1129458	0.641	0.748	1.00	0.100 - 319	64.1	74.8	ug/L	15.4	30.0
2,4,5-TP (Silvex)	1129458	0.718	0.835	1.00	0.100 - 244	71.8	83.5	ug/L	15.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	135	200	ug/L	67.5	0.100 - 313	126611369
2,4-Dichlorophenylacetic Acid		CCV	105	200	ug/L	52.5	0.100 - 313	126611383
2,4-Dichlorophenylacetic Acid		CCV	117	200	ug/L	58.5	0.100 - 313	126611390
2,4-Dichlorophenylacetic Acid		CCV	132	200	ug/L	66.0	0.100 - 313	126611404
2,4-Dichlorophenylacetic Acid	1129458	Blank	12.8	200	ug/L	6.40	0.100 - 313	126611370
2,4-Dichlorophenylacetic Acid	1129458	LCS	58.1	200	ug/L	29.0	0.100 - 313	126611371
2,4-Dichlorophenylacetic Acid	1129458	LCS Dup	74.1	200	ug/L	37.0	0.100 - 313	126611372
2,4-Dichlorophenylacetic Acid	2317023	Unknown	0.963	2.06	ug/L	46.7	0.100 - 313	126611377

* Out RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

Email: Kilgore.ProjectManagement@spplabs.com



Report Page 7 of 9

1110838 CoC Print Group 001 of 001

7/16/24, 2:09 PM

FedEx Ship Manager - Print Your Label(s)

<p>ORIGIN D/NRA (210) 340-0343 CHUCK WALLGREN 1532 UNIVERSAL CITY BLVD. #100 UNIVERSAL CITY TX 78148 UNITED STATES US</p>		<p>SHIP DATE: 18 JUL 24 ACTWGT: 13.00 LB C/D: 11/24/3089NET/4730 DIMS: 12x12x10 IN BILL SENDER</p>	
<p>TO SPL LAB KILGORE SPL LAB KILGORE 2600 DUDLEY ROAD</p>		<p>KILGORE TX 75662 REF: (903) 984-0551 PC: INV: DEPT:</p>	
<p>TRK# 7774 2592 9866 0201</p>		<p>WED - 17 JUL 10:30A PRIORITY OVERNIGHT</p>	
<p>AH GGGA TX-US 75662 SHV</p>		 	
<p>7/17/24 10:08 AM Date Time Tech Temp: 2.4 / 1.7 C Therm#: 6444 Corr Fact: -0.7 C</p>			

583,9/EOE4/BAE3

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

POLLUTION CONTROL SERVICES

1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
Facsimile 210.658.7903
210.340.0343

2407168

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

TO: DHL Analytical

2300 Double Creek Dr

Round Rock, TX 78664

Relinquished by: Lauren Wallgren

Date/Time: 07/16/2024 @ 1500

Received by: Lauren Wallgren

Date/Time: 7/17/24 - 10:30

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
768089	07/16/2024	0715	604.1 Hexachlorophene	Ice	Std
768089	-----	---	Semi Volatiles 625		----
768089	-----	---	Pesticide 1657		----
768089	-----	---	Pesticides 608		----
768089	-----	---	Pesticides 617		----
768089	-----	---	Pesticides 632		----
768090	07/16/2024	0950	Cyanide, Amenable	NaOH	Std
768090	-----	-----	Volatiles 624	Ice	Std

Comments/Special Instructions: 2.6°C then m#78 custody seal not present

Unless otherwise requested, send results and invoice to:

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318

Authorized by: Chuck Wallgren

Date: 7-16-24



July 30, 2024

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd. #100
Universal City, TX 78148
TEL: (210) 394-4570
FAX:
RE: PCS 768089

Order No.: 2407168

Dear Chuck Wallgren:

DHL Analytical, Inc. received 2 sample(s) on 7/17/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification
Number: T104704211 - TX-C24-00120



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AnalyticalQCSummaryReport 2407168	14

FedEx Ship Manager - Print Your Label(s)

7/16/24, 3:24 PM

FROM: (210) 340-0343
Chuck Wallgren

1532 Universal City Blvd. #100

Universal City TX 78148

US

SHIP DATE: 16JUL24
ACTWGT: 65.00 LB
CAD: 112447368/NET4730
DIMMED: 26 X 15 X 15 IN

BLK SENDER

TO John dupont
DHL Analytical
2300 Double Creek

ROUND ROCK TX 78664

(512) 388-8222

REF:

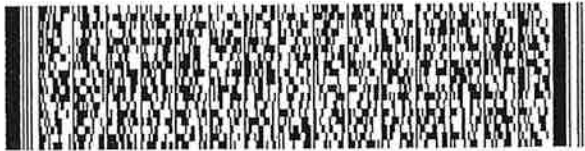
INV:

PO:

DEPT:

(US)

583J9E0E4/8AE3



FedEx.
Ground

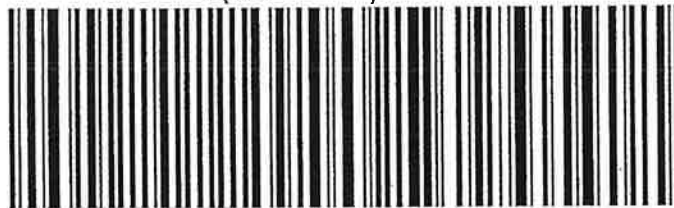


J243024071301uv

TRK# 7774 2795 4995

78664

9622 0019 0 (000 000 0000) 0 00 7774 2795 4995



Sample Receipt Checklist

Client Name: Pollution Control Services

Date Received: 7/17/2024

Work Order Number: 2407168

Received by: KAO

Checklist completed by:


Signature

7/17/2024

Date



Reviewed by:


Initials

7/17/2024

Date

Carrier name: FedEx Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/> NA <input type="checkbox"/>
Water - pH<2 acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> LOT #
	Adjusted? _____	Checked by _____	
Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/> LOT # 12798
	Adjusted?  _____	Checked by  _____	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Cooler # 1

Temp °C 2.6

Seal Intact NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

CLIENT: Pollution Control Services**Project:** PCS 768089**Lab Order:** 2407168**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

ASTM, EPA and Standard Methods.

Compounds Diuron and Hexachlorophene by LCMS are not NELAP Certified.

Several compounds for Pesticide Analysis are not NELAP Certified.

Parameters Dicofol and Nonylphenol in Water by ASTM methods are not NELAP Certified.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Pesticides Analysis, the recovery of Endosulfan sulfate and the RPD of Endrin aldehyde for the Laboratory Control Spike Duplicate (LCSD-116310) were above the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated ICV/LCS. No further corrective action was taken.

For Volatiles Analysis, there was no recovery of 2-Chloroethylvinylether for the Matrix Spike and Matrix Spike Duplicate (2407161-02 MS/MSD). This is flagged accordingly in the QC Summary Report. This compound was within method control limits in the associated LCS. No further corrective action was taken.

For Diuron-Hexachlorophene by LCMS Analysis, the surrogate was inadvertently omitted for the Sample 768089 and Batch QC. Target compounds for the LCS/LCSD were within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Lab Order: 2407168

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2407168-01	768089		07/16/24 07:15 AM	07/17/2024
2407168-02	768090		07/16/24 09:50 AM	07/17/2024

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768089
Lab ID: 2407168-01
Collection Date: 07/16/24 07:15 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE BY LCMS		E632		Analyst: RA			
Diuron	<0.0000493	0.0000493	0.0000789	N	mg/L	1	07/24/24 12:00 PM
Hexachlorophene	<0.000986	0.000986	0.00493	N	mg/L	1	07/24/24 12:00 PM
625.1 PCB BY GC/MS		E625.1		Analyst: DEW			
Aroclor 1016	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1221	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1232	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1242	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1248	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1254	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Aroclor 1260	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Total PCBs	<0.0000990	0.0000990	0.000198		mg/L	1	07/22/24 12:31 PM
Surr: 2-Fluorobiphenyl	77.9	0	43-116		%REC	1	07/22/24 12:31 PM
Surr: 4-Terphenyl-d14	115	0	33-141		%REC	1	07/22/24 12:31 PM
625.1 SEMIVOLATILE WATER		E625.1		Analyst: DEW			
Anthracene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Benztidine	<0.000962	0.000962	0.00385		mg/L	1	07/22/24 04:29 PM
Benzo[a]anthracene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Benzo[a]pyrene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Bis(2-chloroethyl)ether	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Bis(2-ethylhexyl)phthalate	<0.00288	0.00288	0.00577		mg/L	1	07/22/24 04:29 PM
Chrysene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
4,6-Dinitro-o-cresol	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
o-Cresol	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
p-Chloro-m-Cresol	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
m,p-Cresols	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
3,3'-Dichlorobenzidine	<0.000962	0.000962	0.00481		mg/L	1	07/22/24 04:29 PM
2,4-Dimethylphenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Di-n-butyl phthalate	<0.00288	0.00288	0.00577		mg/L	1	07/22/24 04:29 PM
Hexachlorobenzene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Hexachlorobutadiene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Hexachlorocyclopentadiene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Hexachloroethane	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Nitrobenzene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
N-Nitrosodiethylamine	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
N-Nitrosodi-n-butylamine	<0.000962	0.000962	0.00385		mg/L	1	07/22/24 04:29 PM
Pentachlorobenzene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Pentachlorophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAP certified

DHL Analytical, Inc.
Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768089
Lab ID: 2407168-01
Collection Date: 07/16/24 07:15 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		E625.1				Analyst: DEW	
Phenanthrene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Pyridine	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
1,2,4,5-Tetrachlorobenzene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2,4,5-Trichlorophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2-Chlorophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2,4-Dichlorophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2,4-Dinitrophenol	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
2-Nitrophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
4-Nitrophenol	<0.00192	0.00192	0.00385		mg/L	1	07/22/24 04:29 PM
Phenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2,4,6-Trichlorophenol	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Acenaphthene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Acenaphthylene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Benzo[b]fluoranthene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Benzo[g,h,i]perylene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Benzo[k]fluoranthene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Bis(2-chloroethoxy)methane	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Bis(2-chloroisopropyl)ether	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
4-Bromophenyl phenyl ether	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Butyl benzyl phthalate	<0.00288	0.00288	0.00577		mg/L	1	07/22/24 04:29 PM
2-Chloronaphthalene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
4-Chlorophenyl phenyl ether	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Dibenz[a,h]anthracene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Diethyl phthalate	<0.00288	0.00288	0.00577		mg/L	1	07/22/24 04:29 PM
Dimethyl phthalate	<0.00288	0.00288	0.00577		mg/L	1	07/22/24 04:29 PM
2,4-Dinitrotoluene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
2,6-Dinitrotoluene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Di-n-octyl phthalate	0.00485	0.00288	0.00577	J	mg/L	1	07/22/24 04:29 PM
1,2-Diphenylhydrazine	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Fluoranthene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Fluorene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Indeno[1,2,3-cd]pyrene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Isophorone	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Naphthalene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
N-Nitrosodimethylamine	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
N-Nitrosodi-n-propylamine	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
N-Nitrosodiphenylamine	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Pyrene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768089
Lab ID: 2407168-01
Collection Date: 07/16/24 07:15 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		E625.1		Analyst: DEW			
1,2,4-Trichlorobenzene	<0.000962	0.000962	0.00192		mg/L	1	07/22/24 04:29 PM
Surr: 2,4,6-Tribromophenol	101	0	10-123		%REC	1	07/22/24 04:29 PM
Surr: 2-Fluorobiphenyl	84.5	0	43-116		%REC	1	07/22/24 04:29 PM
Surr: 2-Fluorophenol	51.5	0	21-100		%REC	1	07/22/24 04:29 PM
Surr: 4-Terphenyl-d14	87.0	0	33-141		%REC	1	07/22/24 04:29 PM
Surr: Nitrobenzene-d5	93.5	0	35-115		%REC	1	07/22/24 04:29 PM
Surr: Phenol-d5	32.2	0	10-94		%REC	1	07/22/24 04:29 PM
625.1 PESTICIDE BY GC/MS		E625.1		Analyst: DEW			
4,4'-DDD	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
4,4'-DDE	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
4,4'-DDT	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Aldrin	<0.00000990	0.00000990	0.00000990		mg/L	1	07/22/24 07:55 PM
alpha-BHC (Hexachlorocyclohexane)	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
beta-BHC (Hexachlorocyclohexane)	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Carbaryl	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Chlordane	<0.0000594	0.0000594	0.000198	N	mg/L	1	07/22/24 07:55 PM
Chlorpyrifos	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
delta-BHC (Hexachlorocyclohexane)	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Diazinon	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Dieldrin	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Endosulfan I	<0.00000990	0.00000990	0.00000990		mg/L	1	07/22/24 07:55 PM
Endosulfan II	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Endosulfan sulfate	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Endrin	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Endrin aldehyde	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
gamma-BHC (Lindane)	<0.00000990	0.00000990	0.0000198		mg/L	1	07/22/24 07:55 PM
Guthion (Azinphosmethyl)	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Heptachlor	<0.00000990	0.00000990	0.00000990		mg/L	1	07/22/24 07:55 PM
Heptachlor epoxide	<0.00000990	0.00000990	0.00000990		mg/L	1	07/22/24 07:55 PM
Malathion	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Methoxychlor	<0.0000198	0.0000198	0.0000198	N	mg/L	1	07/22/24 07:55 PM
Mirex	<0.00000990	0.00000990	0.0000198	N	mg/L	1	07/22/24 07:55 PM
Parathion, ethyl	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Toxaphene	<0.000297	0.000297	0.000297		mg/L	1	07/22/24 07:55 PM
Demeton (O & S)	<0.00000990	0.00000990	0.0000297	N	mg/L	1	07/22/24 07:55 PM
Surr: 2-Fluorobiphenyl	81.2	0	43-116		%REC	1	07/22/24 07:55 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768089
Lab ID: 2407168-01
Collection Date: 07/16/24 07:15 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 PESTICIDE BY GC/MS		E625.1					Analyst: DEW
Surr: 4-Terphenyl-d14	108	0	33-141		%REC	1	07/22/24 07:55 PM
DICOFOL IN WATER BY ASTM METHOD		D5812-96MOD					Analyst: DEW
Dicofol	<0.000198	0.000198	0.000396	N	mg/L	1	07/22/24 07:55 PM
NONYLPHENOL IN WATER BY ASTM METHOD		D7065-17					Analyst: DEW
Nonylphenol	<0.0673	0.0673	0.0962	N	mg/L	1	07/22/24 04:29 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768090
Lab ID: 2407168-02
Collection Date: 07/16/24 09:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		E624.1		Analyst: JVR			
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	07/17/24 04:34 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Chlorodibromomethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Methylene chloride (DCM)	<0.00250	0.00250	0.00500		mg/L	1	07/17/24 04:34 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,3-Dichloropropene (cis)	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,3-Dichloropropene (trans)	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Methyl ethyl ketone	<0.00500	0.00500	0.0150		mg/L	1	07/17/24 04:34 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	07/17/24 04:34 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	07/17/24 04:34 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	07/17/24 04:34 PM
TTHM (Total Trihalomethanes)	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Acrolein	<0.00500	0.00500	0.0150		mg/L	1	07/17/24 04:34 PM
Chloroethane	<0.00100	0.00100	0.00500		mg/L	1	07/17/24 04:34 PM
2-Chloroethylvinylether	<0.00600	0.00600	0.0100		mg/L	1	07/17/24 04:34 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	07/17/24 04:34 PM
Methyl bromide	<0.00100	0.00100	0.00500		mg/L	1	07/17/24 04:34 PM
Methyl chloride	<0.00100	0.00100	0.00500		mg/L	1	07/17/24 04:34 PM
trans-1,2-Dichloroethylene	<0.000300	0.000300	0.00200		mg/L	1	07/17/24 04:34 PM
Surr: 1,2-Dichloroethane-d4	99.4	0	72-119		%REC	1	07/17/24 04:34 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	07/17/24 04:34 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	07/17/24 04:34 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: 30-Jul-24

CLIENT: Pollution Control Services
Project: PCS 768089
Project No:
Lab Order: 2407168

Client Sample ID: 768090
Lab ID: 2407168-02
Collection Date: 07/16/24 09:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		E624.1					Analyst: JVR
Surr: Toluene-d8	107	0	81-120		%REC	1	07/17/24 04:34 PM
CYANIDE - WATER SAMPLE		M4500-CN E					Analyst: SMA
Cyanide, Amenable to Chlorination	<0.0100	0.0100	0.0200		mg/L	1	07/18/24 05:38 PM
Cyanide, Total	<0.0100	0.0100	0.0200		mg/L	1	07/18/24 05:38 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT**RunID: LCMS2_240724A**

The QC data in batch 116336 applies to the following samples: 2407168-01A

Sample ID: MB-116336	Batch ID: 116336	TestNo: E632	Units: mg/L
SampType: MBLK	Run ID: LCMS2_240724A	Analysis Date: 7/24/2024 11:26:18 AM	Prep Date: 7/22/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	<0.0000500	0.0000800								N
Hexachlorophene	<0.00100	0.00500								N

Sample ID: LCS-116336	Batch ID: 116336	TestNo: E632	Units: mg/L
SampType: LCS	Run ID: LCMS2_240724A	Analysis Date: 7/24/2024 11:37:35 AM	Prep Date: 7/22/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00163	0.0000800	0.00200	0	81.7	35	145			N
Hexachlorophene	0.0000614	0.00500	0.000100	0	61.4	35	145			N

Sample ID: LCSD-116336	Batch ID: 116336	TestNo: E632	Units: mg/L
SampType: LCSD	Run ID: LCMS2_240724A	Analysis Date: 7/24/2024 11:48:54 AM	Prep Date: 7/22/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00159	0.0000800	0.00200	0	79.3	35	145	2.99	30	N
Hexachlorophene	0.0000574	0.00500	0.000100	0	57.4	35	145	6.73	30	N

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Pollution Control Services

Work Order: 2407168

Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240722A

The QC data in batch 116310 applies to the following samples: 2407168-01C

Sample ID: LCS-116310	Batch ID: 116310	TestNo: E625.1	Units: mg/L							
SampType: LCS	Run ID: GCMS10_240722A	Analysis Date: 7/22/2024 1:10:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.000358	0.0000200	0.000400	0	89.6	0.1	135			
4,4'-DDE	0.000323	0.0000200	0.000400	0	80.7	19	120			
4,4'-DDT	0.000360	0.0000200	0.000400	0	90.0	0.1	171			
Aldrin	0.000258	0.0000100	0.000400	0	64.4	7	152			
alpha-BHC (Hexachlorocyclohexane)	0.000328	0.0000200	0.000400	0	82.0	42	108			
beta-BHC (Hexachlorocyclohexane)	0.000323	0.0000200	0.000400	0	80.7	42	131			
Carbaryl	0.000392	0.0000300	0.000400	0	98.0	38	168			N
Chlorpyrifos	0.000444	0.0000300	0.000400	0	111	42	131			N
delta-BHC (Hexachlorocyclohexane)	0.000337	0.0000200	0.000400	0	84.2	0.1	120			
Diazinon	0.000407	0.0000300	0.000400	0	102	52	120			N
Dieldrin	0.000365	0.0000200	0.000400	0	91.3	44	119			
Endosulfan I	0.000361	0.0000100	0.000400	0	90.4	47	128			
Endosulfan II	0.000359	0.0000200	0.000400	0	89.9	52	125			
Endosulfan sulfate	0.000405	0.0000200	0.000400	0	101	0.1	120			
Endrin	0.000423	0.0000200	0.000400	0	106	50	151			
Endrin aldehyde	0.0000690	0.0000200	0.000400	0	17.2	0.1	189			
gamma-BHC (Lindane)	0.000329	0.0000200	0.000400	0	82.4	41	111			
Guthion (Azinphosmethyl)	0.000385	0.0000300	0.000400	0	96.4	44	193			N
Heptachlor	0.000295	0.0000100	0.000400	0	73.7	0.1	172			
Heptachlor epoxide	0.000397	0.0000100	0.000400	0	99.3	71	120			
Malathion	0.000504	0.0000300	0.000400	0	126	56	161			N
Methoxychlor	0.000394	0.0000200	0.000400	0	98.6	38	156			N
Mirex	0.000349	0.0000200	0.000400	0	87.2	27	131			N
Parathion, ethyl	0.000409	0.0000300	0.000400	0	102	13	184			N
Demeton (O & S)	0.000377	0.0000300	0.000400	0	94.3	28	154			N
Surr: 2-Fluorobiphenyl	3.08		4.000		77.0	43	116			
Surr: 4-Terphenyl-d14	3.55		4.000		88.8	33	141			

Sample ID: LCSD-116310	Batch ID: 116310	TestNo: E625.1					Units: mg/L			
SampType: LCSD	Run ID: GCMS10_240722A	Analysis Date: 7/22/2024 1:37:00 PM					Prep Date: 7/19/2024			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.000454	0.0000200	0.000400	0	114	0.1	135	23.6	50	
4,4'-DDE	0.000411	0.0000200	0.000400	0	103	19	120	24.1	50	
4,4'-DDT	0.000486	0.0000200	0.000400	0	121	0.1	171	29.8	50	
Aldrin	0.000285	0.0000100	0.000400	0	71.2	7	152	10.1	50	
alpha-BHC (Hexachlorocyclohexane)	0.000342	0.0000200	0.000400	0	85.6	42	108	4.30	50	
beta-BHC (Hexachlorocyclohexane)	0.000349	0.0000200	0.000400	0	87.2	42	131	7.72	50	
Carbaryl	0.000469	0.0000300	0.000400	0	117	38	168	17.9	50	N
Chlorpyrifos	0.000507	0.0000300	0.000400	0	127	42	131	13.4	50	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240722A

Sample ID: LCSD-116310	Batch ID: 116310	TestNo: E625.1		Units: mg/L						
SampType: LCSD	Run ID: GCMS10_240722A	Analysis Date: 7/22/2024 1:37:00 PM		Prep Date: 7/19/2024						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
delta-BHC (Hexachlorocyclohexane)	0.000371	0.0000200	0.000400	0	92.8	0.1	120	9.77	50	
Diazinon	0.000458	0.0000300	0.000400	0	115	52	120	11.9	50	N
Dieldrin	0.000436	0.0000200	0.000400	0	109	44	119	17.7	50	
Endosulfan I	0.000449	0.0000100	0.000400	0	112	47	128	21.5	50	
Endosulfan II	0.000426	0.0000200	0.000400	0	107	52	125	17.0	50	
Endosulfan sulfate	0.000492	0.0000200	0.000400	0	123	0.1	120	19.3	50	S
Endrin	0.000493	0.0000200	0.000400	0	123	50	151	15.4	50	
Endrin aldehyde	0.000185	0.0000200	0.000400	0	46.3	0.1	189	91.4	50	R
gamma-BHC (Lindane)	0.000353	0.0000200	0.000400	0	88.2	41	111	6.92	50	
Guthion (Azinphosmethyl)	0.000472	0.0000300	0.000400	0	118	44	193	20.2	50	N
Heptachlor	0.000300	0.0000100	0.000400	0	75.1	0.1	172	1.85	50	
Heptachlor epoxide	0.000432	0.0000100	0.000400	0	108	71	120	8.45	50	
Malathion	0.000597	0.0000300	0.000400	0	149	56	161	16.9	50	N
Methoxychlor	0.000514	0.0000200	0.000400	0	128	38	156	26.3	50	N
Mirex	0.000405	0.0000200	0.000400	0	101	27	131	14.8	50	N
Parathion, ethyl	0.000493	0.0000300	0.000400	0	123	13	184	18.6	50	N
Demeton (O & S)	0.000423	0.0000300	0.000400	0	106	28	154	11.3	50	N
Surr: 2-Fluorobiphenyl	3.22		4.000		80.4	43	116	0	0	
Surr: 4-Terphenyl-d14	4.03		4.000		101	33	141	0	0	

Sample ID: MB-116310	Batch ID: 116310	TestNo: E625.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS10_240722A	Analysis Date: 7/22/2024 6:04:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	<0.0000100	0.0000200								
4,4'-DDE	<0.0000100	0.0000200								
4,4'-DDT	<0.0000100	0.0000200								
Aldrin	<0.0000100	0.0000100								
alpha-BHC (Hexachlorocyclohexane)	<0.0000100	0.0000200								
beta-BHC (Hexachlorocyclohexane)	<0.0000100	0.0000200								
Carbaryl	<0.0000100	0.0000300								N
Chlordane	<0.0000600	0.000200								N
Chlorpyrifos	<0.0000100	0.0000300								N
delta-BHC (Hexachlorocyclohexane)	<0.0000100	0.0000200								
Diazinon	<0.0000100	0.0000300								N
Dieldrin	<0.0000100	0.0000200								
Endosulfan I	<0.0000100	0.0000100								
Endosulfan II	<0.0000100	0.0000200								
Endosulfan sulfate	<0.0000100	0.0000200								
Endrin	<0.0000100	0.0000200								
Endrin aldehyde	<0.0000100	0.0000200								

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL
DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240722A

Sample ID: MB-116310	Batch ID: 116310	TestNo: E625.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS10_240722A	Analysis Date: 7/22/2024 6:04:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
gamma-BHC (Lindane)	<0.0000100	0.0000200								
Guthion (Azinphosmethyl)	<0.0000100	0.0000300								N
Heptachlor	<0.0000100	0.0000100								
Heptachlor epoxide	<0.0000100	0.0000100								
Malathion	<0.0000100	0.0000300								N
Methoxychlor	<0.0000200	0.0000200								N
Mirex	<0.0000100	0.0000200								N
Parathion, ethyl	<0.0000100	0.0000300								N
Toxaphene	<0.000300	0.000300								
Demeton (O & S)	<0.0000100	0.0000300								N
Surr: 2-Fluorobiphenyl	3.43		4.000		85.8	43	116			
Surr: 4-Terphenyl-d14	4.25		4.000		106	33	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240722B

The QC data in batch 116310 applies to the following samples: 2407168-01C

Sample ID: LCS-116310-DICO		Batch ID: 116310		TestNo: D5812-96mod		Units: mg/L					
SampType: LCS		Run ID: GCMS10_240722B		Analysis Date: 7/22/2024 3:54:00 PM		Prep Date: 7/19/2024					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Dicofol	0.00128	0.000400	0.00100	0	128	22	180			N
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Sample ID: MB-116310	Batch ID: 116310	TestNo: D5812-96mod	Units: mg/L							
SampType: MBLK	Run ID: GCMS10_240722B	Analysis Date: 7/22/2024 6:04:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Dicofol	<0.000200	0.000400								N
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Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_240722A

The QC data in batch 116310 applies to the following samples: 2407168-01C

Sample ID: LCS-116310-PCB		Batch ID: 116310		TestNo: E625.1		Units: mg/L				
SampType: LCS		Run ID: GCMS6_240722A		Analysis Date: 7/22/2024 11:27:00 AM		Prep Date: 7/19/2024				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00280	0.000200	0.00400	0	69.9	37	130			
Aroclor 1260	0.00372	0.000200	0.00400	0	93.1	19	130			
Total PCBs	0.00652	0.000200	0.00800	0	81.5	19	130			
Surr: 2-Fluorobiphenyl	2.63		4.000		65.7	43	116			
Surr: 4-Terphenyl-d14	4.50		4.000		113	33	141			

Sample ID: MB-116310	Batch ID: 116310	TestNo: E625.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS6_240722A	Analysis Date: 7/22/2024 11:59:00 AM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.000100	0.000200								
Aroclor 1221	<0.000100	0.000200								
Aroclor 1232	<0.000100	0.000200								
Aroclor 1242	<0.000100	0.000200								
Aroclor 1248	<0.000100	0.000200								
Aroclor 1254	<0.000100	0.000200								
Aroclor 1260	<0.000100	0.000200								
Total PCBs	<0.000100	0.000200								
Surr: 2-Fluorobiphenyl	3.09		4.000		77.2	43	116			
Surr: 4-Terphenyl-d14	4.61		4.000		115	33	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240722C

The QC data in batch 116309 applies to the following samples: 2407168-01B

Sample ID: LCS-116309	Batch ID: 116309	TestNo: E625.1	Units: mg/L
SampType: LCS	Run ID: GCMS9_240722C	Analysis Date: 7/22/2024 11:57:00 AM	Prep Date: 7/19/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0198	0.00400	0.0400	0	49.4	5	125			
Benzo[a]anthracene	0.0402	0.00200	0.0400	0	101	33	143			
Benzo[a]pyrene	0.0437	0.00200	0.0400	0	109	17	163			
Chrysene	0.0403	0.00200	0.0400	0	101	17	168			
2,4-Dimethylphenol	0.0378	0.00200	0.0400	0	94.5	32	120			
4,6-Dinitro-o-cresol	0.0500	0.00400	0.0400	0	125	10	181			
m,p-Cresols	0.0299	0.00400	0.0400	0	74.8	10	125			
o-Cresol	0.0320	0.00400	0.0400	0	80.1	25	125			
p-Chloro-m-Cresol	0.0398	0.00400	0.0400	0	99.5	22	147			
Hexachlorobenzene	0.0367	0.00200	0.0400	0	91.8	10	152			
Hexachlorobutadiene	0.0321	0.00200	0.0400	0	80.2	24	120			
Hexachloroethane	0.0345	0.00200	0.0400	0	86.3	40	120			
Nitrobenzene	0.0388	0.00200	0.0400	0	97.0	35	180			
N-Nitrosodiethylamine	0.0346	0.00400	0.0400	0	86.5	20	125			
N-Nitrosodi-n-butylamine	0.0416	0.00400	0.0400	0	104	20	125			
Pentachlorobenzene	0.0350	0.00200	0.0400	0	87.4	40	140			
Pentachlorophenol	0.0374	0.00200	0.0400	0	93.5	14	176			
Phenanthrene	0.0371	0.00200	0.0400	0	92.8	54	120			
Pyridine	0.0185	0.00200	0.0400	0	46.4	10	75			
1,2,4,5-Tetrachlorobenzene	0.0341	0.00200	0.0400	0	85.2	30	140			
2,4,5-Trichlorophenol	0.0452	0.00200	0.0400	0	113	25	125			
2-Chlorophenol	0.0336	0.00200	0.0400	0	84.1	23	134			
2,4-Dichlorophenol	0.0396	0.00200	0.0400	0	99.0	39	135			
2,4-Dinitrophenol	0.0480	0.00400	0.0400	0	120	10	191			
2-Nitrophenol	0.0405	0.00200	0.0400	0	101	29	182			
4-Nitrophenol	0.0326	0.00400	0.0400	0	81.4	10	132			
Phenol	0.0167	0.00200	0.0400	0	41.8	5	120			
2,4,6-Trichlorophenol	0.0425	0.00200	0.0400	0	106	37	144			
Acenaphthene	0.0378	0.00200	0.0400	0	94.6	47	145			
Acenaphthylene	0.0366	0.00200	0.0400	0	91.6	33	145			
Anthracene	0.0385	0.00200	0.0400	0	96.2	27	133			
Benzo[b]fluoranthene	0.0426	0.00200	0.0400	0	107	24	159			
Benzo[g,h,i]perylene	0.0441	0.00200	0.0400	0	110	10	219			
Benzo[k]fluoranthene	0.0393	0.00200	0.0400	0	98.2	11	162			
Bis(2-chloroethoxy)methane	0.0369	0.00200	0.0400	0	92.3	33	184			
Bis(2-chloroethyl)ether	0.0364	0.00200	0.0400	0	91.0	12	158			
Bis(2-chloroisopropyl)ether	0.0325	0.00200	0.0400	0	81.2	36	166			
Bis(2-ethylhexyl)phthalate	0.0494	0.00600	0.0400	0	124	10	158			
4-Bromophenyl phenyl ether	0.0375	0.00200	0.0400	0	93.6	53	127			
Butyl benzyl phthalate	0.0456	0.00600	0.0400	0	114	10	152			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240722C

Sample ID: LCS-116309	Batch ID: 116309	TestNo: E625.1	Units: mg/L
SampType: LCS	Run ID: GCMS9_240722C	Analysis Date: 7/22/2024 11:57:00 AM	Prep Date: 7/19/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chloronaphthalene	0.0372	0.00200	0.0400	0	93.0	60	120			
4-Chlorophenyl phenyl ether	0.0386	0.00200	0.0400	0	96.6	25	158			
Dibenz[a,h]anthracene	0.0431	0.00200	0.0400	0	108	10	125			
3,3'-Dichlorobenzidine	0.0366	0.00500	0.0400	0	91.6	10	262			
Diethyl phthalate	0.0423	0.00600	0.0400	0	106	10	120			
Dimethyl phthalate	0.0403	0.00600	0.0400	0	101	10	120			
Di-n-butyl phthalate	0.0462	0.00600	0.0400	0	116	10	120			
2,4-Dinitrotoluene	0.0424	0.00200	0.0400	0	106	39	139			
2,6-Dinitrotoluene	0.0411	0.00200	0.0400	0	103	50	158			
Di-n-octyl phthalate	0.0442	0.00600	0.0400	0	111	10	146			
1,2-Diphenylhydrazine	0.0366	0.00200	0.0400	0	91.6	40	140			
Fluoranthene	0.0446	0.00200	0.0400	0	112	26	137			
Fluorene	0.0406	0.00200	0.0400	0	101	59	121			
Hexachlorocyclopentadiene	0.0393	0.00200	0.0400	0	98.4	8	130			
Indeno[1,2,3-cd]pyrene	0.0426	0.00200	0.0400	0	107	10	171			
Isophorone	0.0369	0.00200	0.0400	0	92.3	21	196			
Naphthalene	0.0345	0.00200	0.0400	0	86.4	21	133			
N-Nitrosodimethylamine	0.0176	0.00200	0.0400	0	43.9	10	125			
N-Nitrosodi-n-propylamine	0.0373	0.00200	0.0400	0	93.2	10	230			
N-Nitrosodiphenylamine	0.0402	0.00200	0.0400	0	100	20	125			
Pyrene	0.0409	0.00200	0.0400	0	102	52	120			
1,2,4-Trichlorobenzene	0.0344	0.00200	0.0400	0	86.1	44	142			
Surr: 2,4,6-Tribromophenol	78.6		80.00		98.3	10	123			
Surr: 2-Fluorobiphenyl	68.4		80.00		85.5	43	116			
Surr: 2-Fluorophenol	49.6		80.00		62.0	21	100			
Surr: 4-Terphenyl-d14	68.8		80.00		86.0	33	141			
Surr: Nitrobenzene-d5	74.0		80.00		92.5	35	115			
Surr: Phenol-d5	32.8		80.00		41.0	10	94			

Sample ID: MB-116309	Batch ID: 116309	TestNo: E625.1	Units: mg/L
SampType: MBLK	Run ID: GCMS9_240722C	Analysis Date: 7/22/2024 1:28:00 PM	Prep Date: 7/19/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	<0.00100	0.00400								
Benzo[a]anthracene	<0.00100	0.00200								
Benzo[a]pyrene	<0.00100	0.00200								
Chrysene	<0.00100	0.00200								
2,4-Dimethylphenol	<0.00100	0.00200								
4,6-Dinitro-o-cresol	<0.00200	0.00400								
m,p-Cresols	<0.00200	0.00400								
o-Cresol	<0.00200	0.00400								

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240722C

Sample ID: MB-116309	Batch ID: 116309	TestNo: E625.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS9_240722C	Analysis Date: 7/22/2024 1:28:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

p-Chloro-m-Cresol	<0.00200	0.00400
Hexachlorobenzene	<0.00100	0.00200
Hexachlorobutadiene	<0.00100	0.00200
Hexachloroethane	<0.00100	0.00200
Nitrobenzene	<0.00100	0.00200
N-Nitrosodiethylamine	<0.00200	0.00400
N-Nitrosodi-n-butylamine	<0.00100	0.00400
Pentachlorobenzene	<0.00100	0.00200
Pentachlorophenol	<0.00100	0.00200
Phenanthrene	<0.00100	0.00200
Pyridine	<0.00100	0.00200
1,2,4,5-Tetrachlorobenzene	<0.00100	0.00200
2,4,5-Trichlorophenol	<0.00100	0.00200
2-Chlorophenol	<0.00100	0.00200
2,4-Dichlorophenol	<0.00100	0.00200
2,4-Dinitrophenol	<0.00200	0.00400
2-Nitrophenol	<0.00100	0.00200
4-Nitrophenol	<0.00200	0.00400
Phenol	<0.00100	0.00200
2,4,6-Trichlorophenol	<0.00100	0.00200
Acenaphthene	<0.00100	0.00200
Acenaphthylene	<0.00100	0.00200
Anthracene	<0.00100	0.00200
Benzo[b]fluoranthene	<0.00100	0.00200
Benzo[g,h,i]perylene	<0.00100	0.00200
Benzo[k]fluoranthene	<0.00100	0.00200
Bis(2-chloroethoxy)methane	<0.00100	0.00200
Bis(2-chloroethyl)ether	<0.00100	0.00200
Bis(2-chloroisopropyl)ether	<0.00100	0.00200
Bis(2-ethylhexyl)phthalate	<0.00300	0.00600
4-Bromophenyl phenyl ether	<0.00100	0.00200
Butyl benzyl phthalate	<0.00300	0.00600
2-Chloronaphthalene	<0.00100	0.00200
4-Chlorophenyl phenyl ether	<0.00100	0.00200
Dibenz[a,h]anthracene	<0.00100	0.00200
3,3'-Dichlorobenzidine	<0.00100	0.00500
Diethyl phthalate	<0.00300	0.00600
Dimethyl phthalate	<0.00300	0.00600
Di-n-butyl phthalate	<0.00300	0.00600
2,4-Dinitrotoluene	<0.00100	0.00200
2,6-Dinitrotoluene	<0.00100	0.00200

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240722C

Sample ID: MB-116309	Batch ID: 116309	TestNo: E625.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS9_240722C	Analysis Date: 7/22/2024 1:28:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Di-n-octyl phthalate	<0.00300	0.00600								
1,2-Diphenylhydrazine	<0.00100	0.00200								
Fluoranthene	<0.00100	0.00200								
Fluorene	<0.00100	0.00200								
Hexachlorocyclopentadiene	<0.00100	0.00200								
Indeno[1,2,3-cd]pyrene	<0.00100	0.00200								
Isophorone	<0.00100	0.00200								
Naphthalene	<0.00100	0.00200								
N-Nitrosodimethylamine	<0.00100	0.00200								
N-Nitrosodi-n-propylamine	<0.00100	0.00200								
N-Nitrosodiphenylamine	<0.00100	0.00200								
Pyrene	<0.00100	0.00200								
1,2,4-Trichlorobenzene	<0.00100	0.00200								
Surr: 2,4,6-Tribromophenol	82.4		80.00		103	10	123			
Surr: 2-Fluorobiphenyl	67.4		80.00		84.2	43	116			
Surr: 2-Fluorophenol	45.8		80.00		57.2	21	100			
Surr: 4-Terphenyl-d14	68.2		80.00		85.3	33	141			
Surr: Nitrobenzene-d5	73.8		80.00		92.3	35	115			
Surr: Phenol-d5	27.6		80.00		34.5	10	94			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240722D

The QC data in batch 116309 applies to the following samples: 2407168-01B

Sample ID: LCS-116309-NP	Batch ID: 116309	TestNo: D7065-17	Units: mg/L							
SampType: LCS	Run ID: GCMS9_240722D	Analysis Date: 7/22/2024 1:05:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nonylphenol	1.11	0.100	1.00	0	111	40	140			N
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Sample ID: MB-116309	Batch ID: 116309	TestNo: D7065-17	Units: mg/L							
SampType: MBLK	Run ID: GCMS9_240722D	Analysis Date: 7/22/2024 1:28:00 PM	Prep Date: 7/19/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nonylphenol	<0.0700	0.100								N
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Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL

DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240717B

The QC data in batch 116286 applies to the following samples: 2407168-02A

Sample ID: LCS-116286	Batch ID: 116286	TestNo: E624.1	Units: mg/L
SampType: LCS	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 12:40:00 PM	Prep Date: 7/17/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0266	0.00100	0.0232	0	114	65	135			
Carbon tetrachloride	0.0251	0.00100	0.0232	0	108	70	130			
Chlorobenzene	0.0248	0.00100	0.0232	0	107	35	135			
Chloroform	0.0251	0.00100	0.0232	0	108	70	135			
Chlorodibromomethane	0.0247	0.00100	0.0232	0	106	70	135			
1,2-Dibromoethane	0.0246	0.00100	0.0232	0	106	60	140			
1,2-Dichloroethane	0.0252	0.00100	0.0232	0	109	70	130			
1,1-Dichloroethene	0.0259	0.00100	0.0232	0	112	50	150			
Tetrachloroethene	0.0258	0.00200	0.0232	0	111	70	130			
Trichloroethene	0.0259	0.00100	0.0232	0	112	65	135			
1,1,1-Trichloroethane	0.0245	0.00100	0.0232	0	106	70	130			
TTHM (Total Trihalomethanes)	0.0988	0.00100	0.0928	0	106	60	140			
Vinyl chloride	0.0272	0.00100	0.0232	0	117	5	195			
Acrolein	0.0502	0.0150	0.0580	0	86.5	60	140			
Acrylonitrile	0.0554	0.00300	0.0464	0	119	60	140			
1,1,2,2-Tetrachloroethane	0.0256	0.00100	0.0232	0	111	60	140			
Bromoform	0.0237	0.00100	0.0232	0	102	65	135			
Chloroethane	0.0250	0.00500	0.0232	0	108	40	160			
2-Chloroethylvinylether	0.0242	0.0100	0.0232	0	104	5	225			
Bromodichloromethane	0.0253	0.00100	0.0232	0	109	65	135			
1,1-Dichloroethane	0.0275	0.00100	0.0232	0	118	70	130			
1,2-Dichloropropane	0.0283	0.00100	0.0232	0	122	35	165			
1,3-Dichloropropene (cis)	0.0261	0.00100	0.0232	0	113	25	175			
1,3-Dichloropropene (trans)	0.0250	0.00100	0.0232	0	108	50	150			
Ethylbenzene	0.0243	0.00100	0.0232	0	105	60	140			
Methyl bromide	0.0188	0.00500	0.0232	0	80.9	15	185			
Methyl chloride	0.0306	0.00500	0.0232	0	132	5	205			
Methylene chloride (DCM)	0.0256	0.00500	0.0232	0	111	60	140			
Toluene	0.0257	0.00200	0.0232	0	111	70	130			
trans-1,2-Dichloroethylene	0.0269	0.00200	0.0232	0	116	70	130			
1,1,2-Trichloroethane	0.0252	0.00100	0.0232	0	109	70	130			
1,2-Dichlorobenzene	0.0258	0.00100	0.0232	0	111	65	135			
1,3-Dichlorobenzene	0.0253	0.00100	0.0232	0	109	70	130			
1,4-Dichlorobenzene	0.0246	0.00100	0.0232	0	106	65	135			
Surr: 1,2-Dichloroethane-d4	199		200.0		99.4	72	119			
Surr: 4-Bromofluorobenzene	201		200.0		100	76	119			
Surr: Dibromofluoromethane	196		200.0		97.9	85	115			
Surr: Toluene-d8	199		200.0		99.7	81	120			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240717B

Sample ID: LCS-116286	Batch ID: 116286	TestNo: E624.1	Units: mg/L
SampType: LCS	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 1:08:00 PM	Prep Date: 7/17/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl ethyl ketone	0.109	0.0150	0.116	0	93.7	60	140			
Surr: 1,2-Dichloroethane-d4	190		200.0		94.8	72	119			
Surr: 4-Bromofluorobenzene	215		200.0		107	76	119			
Surr: Dibromofluoromethane	195		200.0		97.4	85	115			
Surr: Toluene-d8	205		200.0		102	81	120			

Sample ID: MB-116286	Batch ID: 116286	TestNo: E624.1	Units: mg/L
SampType: MBLK	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 1:49:00 PM	Prep Date: 7/17/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								
Carbon tetrachloride	<0.000300	0.00100								
Chlorobenzene	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chlorodibromomethane	<0.000300	0.00100								
1,2-Dibromoethane	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,1-Dichloroethene	<0.000300	0.00100								
Methyl ethyl ketone	<0.00500	0.0150								
Tetrachloroethene	<0.000600	0.00200								
Trichloroethene	<0.000600	0.00100								
1,1,1-Trichloroethane	<0.000300	0.00100								
TTHM (Total Trihalomethanes)	<0.000300	0.00100								
Vinyl chloride	<0.000300	0.00100								
Acrolein	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
1,1,2,2-Tetrachloroethane	<0.000300	0.00100								
Bromoform	<0.000300	0.00100								
Chloroethane	<0.00100	0.00500								
2-Chloroethylvinylether	<0.00600	0.0100								
Bromodichloromethane	<0.000300	0.00100								
1,1-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000300	0.00100								
1,3-Dichloropropene (cis)	<0.000300	0.00100								
1,3-Dichloropropene (trans)	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Methyl bromide	<0.00100	0.00500								
Methyl chloride	<0.00100	0.00500								
Methylene chloride (DCM)	<0.00250	0.00500								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethylene	<0.000300	0.00200								

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240717B

Sample ID: MB-116286	Batch ID: 116286	TestNo: E624.1	Units: mg/L							
SampType: MBLK	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 1:49:00 PM	Prep Date: 7/17/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	<0.000300	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,4-Dichlorobenzene	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	192		200.0		96.2	72	119			
Surr: 4-Bromofluorobenzene	213		200.0		106	76	119			
Surr: Dibromofluoromethane	198		200.0		99.0	85	115			
Surr: Toluene-d8	213		200.0		107	81	120			

Sample ID: 2407161-02AMS	Batch ID: 116286	TestNo: E624.1	Units: mg/L							
SampType: MS	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 10:33:00 PM	Prep Date: 7/17/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.0260	0.00100	0.0232	0	112	37	151			
Carbon tetrachloride	0.0243	0.00100	0.0232	0	105	70	140			
Chlorobenzene	0.0240	0.00100	0.0232	0	104	37	160			
Chloroform	0.0248	0.00100	0.0232	0	107	51	138			
Chlorodibromomethane	0.0239	0.00100	0.0232	0	103	53	149			
1,2-Dibromoethane	0.0235	0.00100	0.0232	0	101	40	160			
1,2-Dichloroethane	0.0245	0.00100	0.0232	0	105	49	155			
1,1-Dichloroethene	0.0236	0.00100	0.0232	0	102	10	234			
Methyl ethyl ketone	0.127	0.0150	0.116	0	110	40	160			
Tetrachloroethene	0.0254	0.00200	0.0232	0.00116	104	64	148			
Trichloroethene	0.0253	0.00100	0.0232	0	109	70	157			
1,1,1-Trichloroethane	0.0241	0.00100	0.0232	0	104	52	162			
TTHM (Total Trihalomethanes)	0.0956	0.00100	0.0928	0	103	40	160			
Vinyl chloride	0.0252	0.00100	0.0232	0	109	10	251			
Acrolein	0.0425	0.0150	0.0580	0	73.3	40	160			
Acrylonitrile	0.0612	0.00300	0.0464	0	132	40	160			
1,1,2,2-Tetrachloroethane	0.0243	0.00100	0.0232	0	105	46	157			
Bromoform	0.0220	0.00100	0.0232	0	94.7	45	169			
Chloroethane	0.0232	0.00500	0.0232	0	99.9	14	230			
2-Chloroethylvinylether	<0.00600	0.0100	0.0232	0	0	5	273			S
Bromodichloromethane	0.0249	0.00100	0.0232	0	107	35	155			
1,1-Dichloroethane	0.0268	0.00100	0.0232	0	115	59	155			
1,2-Dichloropropane	0.0272	0.00100	0.0232	0	117	10	210			
1,3-Dichloropropene (cis)	0.0227	0.00100	0.0232	0	98.0	10	227			
1,3-Dichloropropene (trans)	0.0234	0.00100	0.0232	0	101	17	183			
Ethylbenzene	0.0234	0.00100	0.0232	0	101	37	162			
Methyl bromide	0.0160	0.00500	0.0232	0	69.0	10	242			
Methyl chloride	0.0290	0.00500	0.0232	0	125	5	273			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240717B

Sample ID: 2407161-02AMS	Batch ID: 116286	TestNo: E624.1	Units: mg/L
SampType: MS	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 10:33:00 PM	Prep Date: 7/17/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride (DCM)	0.0252	0.00500	0.0232	0	109	10	221			
Toluene	0.0249	0.00200	0.0232	0	107	47	150			
trans-1,2-Dichloroethylene	0.0245	0.00200	0.0232	0	106	54	156			
1,1,2-Trichloroethane	0.0250	0.00100	0.0232	0	108	52	150			
1,2-Dichlorobenzene	0.0234	0.00100	0.0232	0	101	18	190			
1,3-Dichlorobenzene	0.0233	0.00100	0.0232	0	100	59	156			
1,4-Dichlorobenzene	0.0233	0.00100	0.0232	0	100	18	190			
Surr: 1,2-Dichloroethane-d4	191		200.0		95.3	72	119			
Surr: 4-Bromofluorobenzene	193		200.0		96.4	76	119			
Surr: Dibromofluoromethane	199		200.0		99.4	85	115			
Surr: Toluene-d8	197		200.0		98.3	81	120			

Sample ID: 2407161-02AMSD	Batch ID: 116286	TestNo: E624.1	Units: mg/L
SampType: MSD	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 10:59:00 PM	Prep Date: 7/17/2024

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0263	0.00100	0.0232	0	113	37	151	1.08	40	
Carbon tetrachloride	0.0244	0.00100	0.0232	0	105	70	140	0.719	40	
Chlorobenzene	0.0252	0.00100	0.0232	0	109	37	160	4.68	40	
Chloroform	0.0253	0.00100	0.0232	0	109	51	138	1.72	40	
Chlorodibromomethane	0.0245	0.00100	0.0232	0	106	53	149	2.65	40	
1,2-Dibromoethane	0.0253	0.00100	0.0232	0	109	40	160	7.25	40	
1,2-Dichloroethane	0.0250	0.00100	0.0232	0	108	49	155	2.35	40	
1,1-Dichloroethene	0.0247	0.00100	0.0232	0	106	10	234	4.65	32	
Methyl ethyl ketone	0.147	0.0150	0.116	0	127	40	160	14.4	40	
Tetrachloroethene	0.0257	0.00200	0.0232	0.00116	106	64	148	1.20	39	
Trichloroethene	0.0255	0.00100	0.0232	0	110	70	157	0.909	40	
1,1,1-Trichloroethane	0.0240	0.00100	0.0232	0	103	52	162	0.354	36	
TTHM (Total Trihalomethanes)	0.0985	0.00100	0.0928	0	106	40	160	2.99	40	
Vinyl chloride	0.0247	0.00100	0.0232	0	106	10	251	2.04	40	
Acrolein	0.0420	0.0150	0.0580	0	72.4	40	160	1.24	40	
Acrylonitrile	0.0574	0.00300	0.0464	0	124	40	160	6.43	40	
1,1,2,2-Tetrachloroethane	0.0265	0.00100	0.0232	0	114	46	157	8.82	40	
Bromoform	0.0233	0.00100	0.0232	0	100	45	169	5.74	40	
Chloroethane	0.0233	0.00500	0.0232	0	101	14	230	0.688	40	
2-Chloroethylvinylether	<0.00600	0.0100	0.0232	0	0	5	273	0	40	S
Bromodichloromethane	0.0254	0.00100	0.0232	0	110	35	155	2.11	40	
1,1-Dichloroethane	0.0272	0.00100	0.0232	0	117	59	155	1.56	40	
1,2-Dichloropropane	0.0284	0.00100	0.0232	0	122	10	210	4.18	40	
1,3-Dichloropropene (cis)	0.0239	0.00100	0.0232	0	103	10	227	5.12	40	
1,3-Dichloropropene (trans)	0.0246	0.00100	0.0232	0	106	17	183	5.26	40	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240717B

Sample ID: 2407161-02AMSD	Batch ID: 116286	TestNo: E624.1	Units: mg/L							
SampType: MSD	Run ID: GCMS5_240717B	Analysis Date: 7/17/2024 10:59:00 PM	Prep Date: 7/17/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	0.0241	0.00100	0.0232	0	104	37	162	2.79	40	
Methyl bromide	0.0163	0.00500	0.0232	0	70.1	10	242	1.69	40	
Methyl chloride	0.0284	0.00500	0.0232	0	122	5	273	1.91	40	
Methylene chloride (DCM)	0.0255	0.00500	0.0232	0	110	10	221	1.15	28	
Toluene	0.0254	0.00200	0.0232	0	109	47	150	1.78	40	
trans-1,2-Dichloroethylene	0.0256	0.00200	0.0232	0	110	54	156	4.31	40	
1,1,2-Trichloroethane	0.0262	0.00100	0.0232	0	113	52	150	4.70	40	
1,2-Dichlorobenzene	0.0251	0.00100	0.0232	0	108	18	190	7.20	40	
1,3-Dichlorobenzene	0.0245	0.00100	0.0232	0	106	59	156	5.03	40	
1,4-Dichlorobenzene	0.0246	0.00100	0.0232	0	106	18	190	5.43	40	
Surr: 1,2-Dichloroethane-d4	191		200.0		95.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	196		200.0		98.0	76	119	0	0	
Surr: Dibromofluoromethane	198		200.0		99.2	85	115	0	0	
Surr: Toluene-d8	198		200.0		98.9	81	120	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2407168
Project: PCS 768089

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240718A

The QC data in batch 116289 applies to the following samples: 2407168-02B

Sample ID: MB-116289	Batch ID: 116289	TestNo: M4500-CN E	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_240718A	Analysis Date: 7/18/2024 5:23:00 PM	Prep Date: 7/18/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Amenable to Chlorination <0.0100 0.0200

Cyanide, Total <0.0100 0.0200

Sample ID: LCS-116289	Batch ID: 116289	TestNo: M4500-CN E	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_240718A	Analysis Date: 7/18/2024 5:24:00 PM	Prep Date: 7/18/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total 0.204 0.0200 0.2000 0 102 85 115

Sample ID: 2407082-01AMS	Batch ID: 116289	TestNo: M4500-CN E	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_240718A	Analysis Date: 7/18/2024 5:25:00 PM	Prep Date: 7/18/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total 0.199 0.0200 0.2000 0 99.4 79 114

Sample ID: 2407082-01AMSD	Batch ID: 116289	TestNo: M4500-CN E	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_240718A	Analysis Date: 7/18/2024 5:25:00 PM	Prep Date: 7/18/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total 0.198 0.0200 0.2000 0 98.8 79 114 0.686 20

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Pollution Control Services

Sample Log-In Checklist

768089

PCS Sample No(s) 768089 768090 COC No. _____

Client/Company Name: SARA Checklist Completed by: LMW

Sample Delivery to Lab Via:

Client Drop Off ☒ Commercial Carrier: Bus _____ UPS _____ Lone Star _____ FedEx _____ USPS _____
PCS Field Services: Collection/Pick Up _____ Other: _____

Sample Kit/Coolers

Sample Kit/Cooler? Yes _____ No _____ Sample Kit/Cooler: Intact? Yes ☒ No _____
Custody Seals on Sample Kit/Cooler: Not Present _____ If Present, Intact _____ Broken _____
Sample Containers Intact; Unbroken and Not Leaking? Yes ☒ No _____
Custody Seals on Sample Bottles: Not Present _____ If Present, Intact _____ Broken _____
COC Present with Shipment or Delivery or Completed at Drop Off? Yes ☒ No _____
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes ☒ No: _____
Has COC been properly Signed when Received/Relinquished? Yes ☒ No _____
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes _____ No _____
All Samples Received before Hold Time Expiration? Yes ☒ No _____
Sufficient Sample Volumes for Analysis Requested? Yes ☒ No _____
Zero Headspace in VOA Vial? Yes _____ No _____

Sample Preservation:

* Cooling: Not Required _____ or Required ☒
If cooling required, record temperature of submitted samples Observed/Corrected 8 5 °C
Is Ice Present in Sample Kit/Cooler? ☒ Yes _____ No _____ Samples received same day as collected? ☒ Yes _____ No _____
Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: _____

Acid Preserved Sample - If present, is pH <2? Yes ☒ No ☒ ** H₂SO₄ HNO₃ _____ H₃PO₄ _____
Base Preserved Sample - If present, is pH >12? Yes ☒ No ☒ NaOH _____
Other Preservation: _____ If Present, Meets Requirements? Yes _____ No _____
Sample Preservations Checked by: LMW Date 7-16-24 Time 1119
pH paper used to check sample preservation (PCS log #): 23-2010 (HEM pH checked at analysis).
Samples Preserved/Adjusted by Lab: Lab # _____ Parameters Preserved _____ Preservative Used _____ Log # _____

Adjusted by Tech/Analyst: _____ Date: _____ Time: _____

Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ Revision Comments

Person Notified: _____ Contacted by: _____
Notified Date: _____ Time: _____
Method of Contact: At Drop Off: _____ Phone _____ Left Voice Mail _____ E-Mail _____ Fax _____
Unable to Contact _____ Authorized Laboratory to Proceed: _____ (Lab Director)
Regarding / Comments: _____

Actions taken to correct problems/discrepancies: _____

Receiving qualifier needed (requires client notification above) Temp. _____ Holding Time _____ Initials: _____

Receiving qualifier entered into LIMS at login Initial/Date: _____

Revision Comments: Rev. 1 - PCS # 768089 - corrected PC's on
several metals - needed PC/LIMS on low level & get reported
out on normal level on original report. 8/9/2024 - a

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 9

Domestic Technical Report 5.0

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: 27 (17 Ceriodaphnia dubia/10 Pimephales promelas)

48-hour Acute: 0

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.

Click to enter text.

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
	N/A		

Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 10

Domestic Technical Report 6.0

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: 0

Average Daily Flows, in MGD: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

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.

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.

Click to enter text.

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.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

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: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

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 instructions?

☐ 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.

N/A

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Design Calculations

This application is for a renewal, Design Calculations are not required.

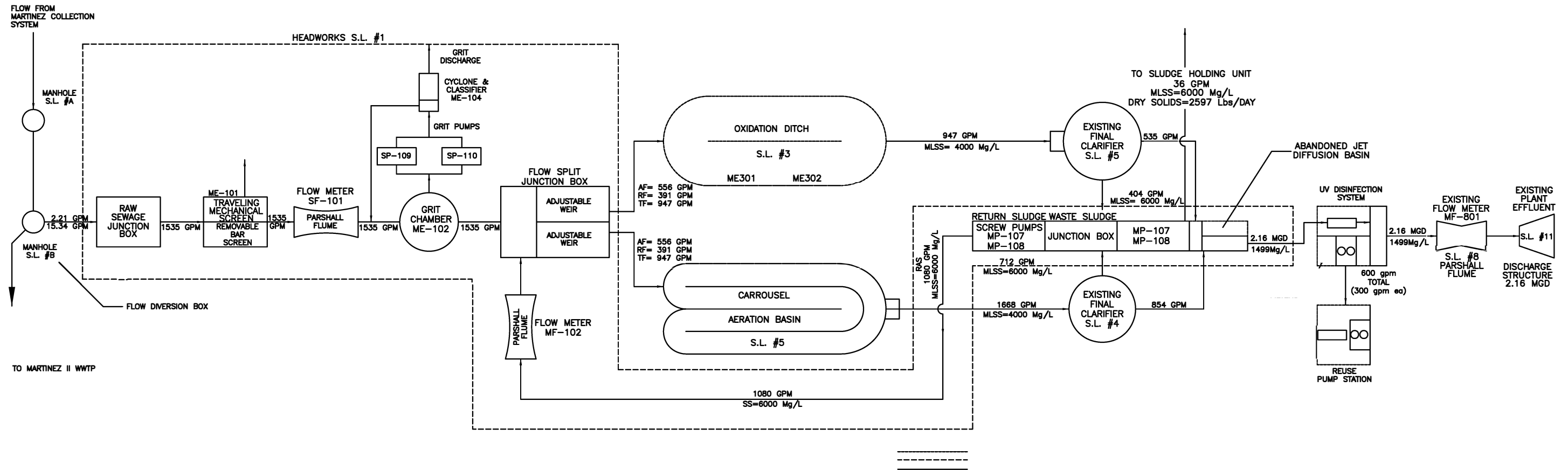
Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 13

Flow Diagram

Reference: Domestic Technical Report 1.0

Section 2 C



LEGEND


EXISTING FACILITIES TO BE ABANDONED
HEADWORKS FACILITIES
UNIT TREATMENT FACILITIES

ABBREVIATIONS

AF AVERAGE FLOW
GPM GALLONS PER MINUTE
HDT HYDRAULIC DETENTION TIME
HP HORSE POWER
MGD MILLION GALLONS PER DAY
MLSS MIXED LIQUOR SUSPENDED SOLIDS
RF RETURN FLOW
SS SUSPENDED SOLIDS
SWD SIDE WATER DEPTH
TF TOTAL FLOW

NOTE:

- S.L. # = SITE LOCATION NUMBER
- FLows SHOWN ARE FOR PERMITTED AVERAGE DAILY FLOW

				DESIGNED BY: JD		 <div>SAN ANTONIO RIVER AUTHORITY <small>Water Brings Us Together</small></div> <div>SAN ANTONIO RIVER AUTHORITY</div> <div>100 E. GUENTHER STREET P.O. BOX 839980 SAN ANTONIO, TEXAS 78283-9980</div>	UPPER MARTINEZ WWTP	ATTACHMENT 13
				DRAWN BY: RDV			FLOW DIAGRAM	SHEET ____ OF ____
				CHECKED BY: JD				
				APPROVED BY: JD				
NO.	REVISION	DATE	BY	DATE: 7/27/09	FILE: flow diagram			

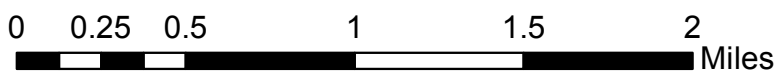
Upper Martinez Wastewater Discharge Permit Renewal 07/2024
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 14

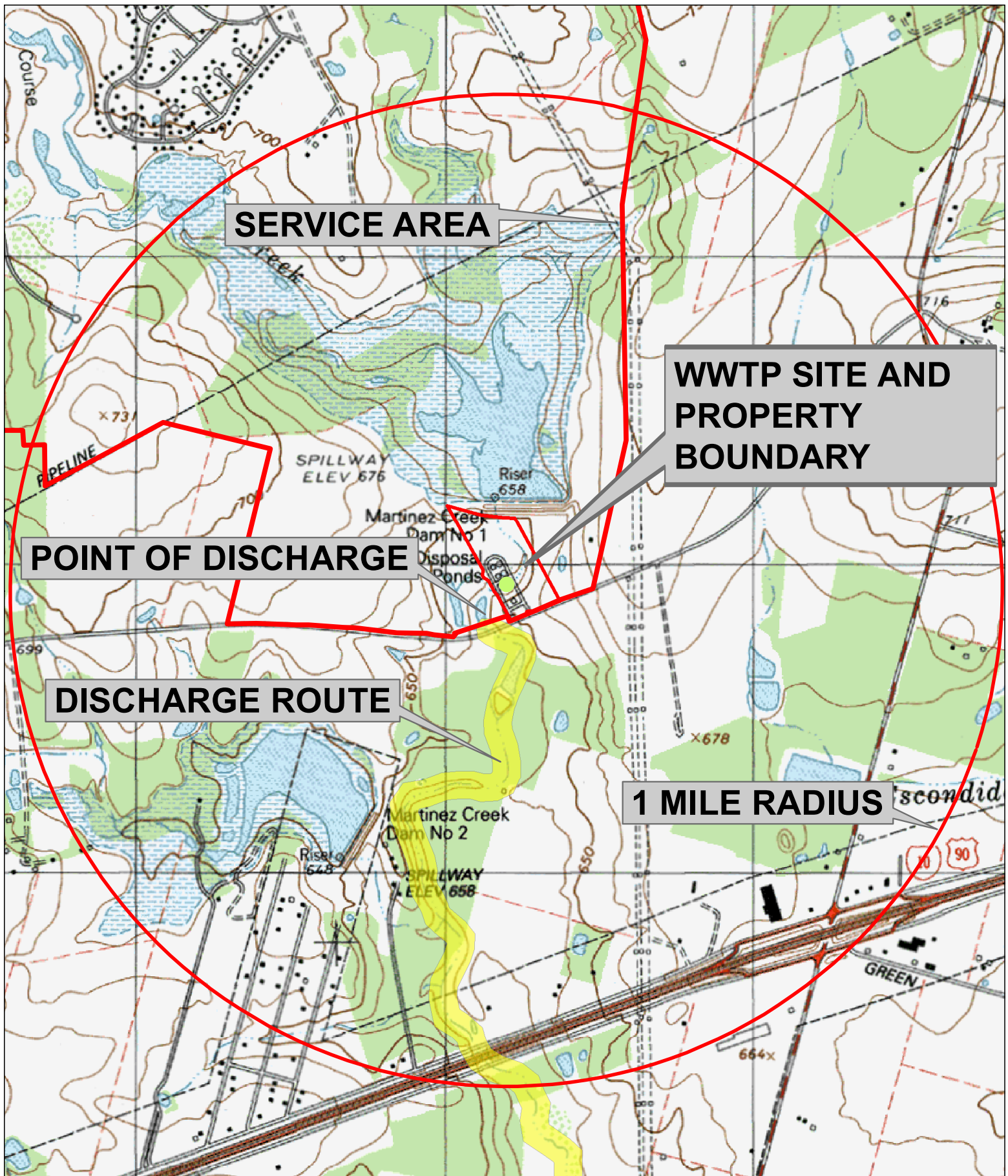
Site Drawing

Reference: Domestic Technical Report 1.0

Section 3



Attachment 14A



Upper Martinez Wastewater Discharge Permit Renewal 07/2024
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Water Balance

This application is for a renewal, Water Balance is not required.

Candice Calhoun

From: Ernest Munoz <emunoz@sariverauthority.org>
Sent: Thursday, September 12, 2024 4:55 PM
To: Candice Calhoun; Leamon Anderson
Cc: Daniel Flores
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749003 - San Antonio River Authority; Upper Martinez Creek WWTP
Attachments: Municipal Discharge Renewal Spanish NORI.docx
Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Calhoun,

Regarding Item 2 of the NOD, the application response is accurate and is to include **1720 FM 1516 North, Converse, TX 78109** as the site for public viewing of the permit.

Attached is the document regarding Item 3 of the NOD for the Spanish public notice.

Thank you for following up and please let me know if there is any additional information required.

Ernest Muñoz

Quality Control Operator
San Antonio River Authority
1720 FM 1516 North
San Antonio, TX 78209
(210) 302-4262 ph
(210) 373-1336 cell
emunoz@sariverauthority.org



Please consider the environment before printing this email.

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, September 12, 2024 4:11 PM
To: Ernest Munoz <emunoz@sariverauthority.org>; Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749003 - San Antonio River Authority; Upper Martinez Creek WWTP

Good afternoon, Mr. Munoz,

Candice Calhoun

From: Ernest Munoz <emunoz@sariverauthority.org>
Sent: Tuesday, September 10, 2024 1:58 PM
To: Candice Calhoun; Leamon Anderson
Cc: Daniel Flores
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749003 - San Antonio River Authority; Upper Martinez Creek WWTP
Attachments: Capture.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

Thank you for the updates regarding our permit renewal application.
Regarding Item 1 Public Viewing Information, the address provided in the application **1720 FM 1516 North, Converse, TX 78109** is our existing physical address for our Utilities Administration Building. The address may result in different location points when searching on Google, ArcGIS, etc. If it helps, attached is an image of a pin with coordinates to our front gate to our location.

Please let me know if you have any additional questions.

Thank you,

Ernest Muñoz

Quality Control Operator
San Antonio River Authority
1720 FM 1516 North
San Antonio, TX 78209
(210) 302-4262 ph
(210) 373-1336 cell
emunoz@sariverauthority.org



Please consider the environment before printing this email.

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, September 10, 2024 10:24 AM
To: Leamon Anderson <landerson@sariverauthority.org>
Cc: Ernest Munoz <emunoz@sariverauthority.org>
Subject: [EXTERNAL] Application to Renew Permit No. WQ0010749003 - San Antonio River Authority; Upper Martinez Creek WWTP
Importance: High

29°26'31.9"N 98°19'20.1"W



29°26'31.9"N 98°19'20.1"W
29.442200, -98.322240

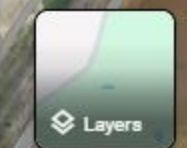
- Directions
- Save
- Nearby
- Send to phone
- Share

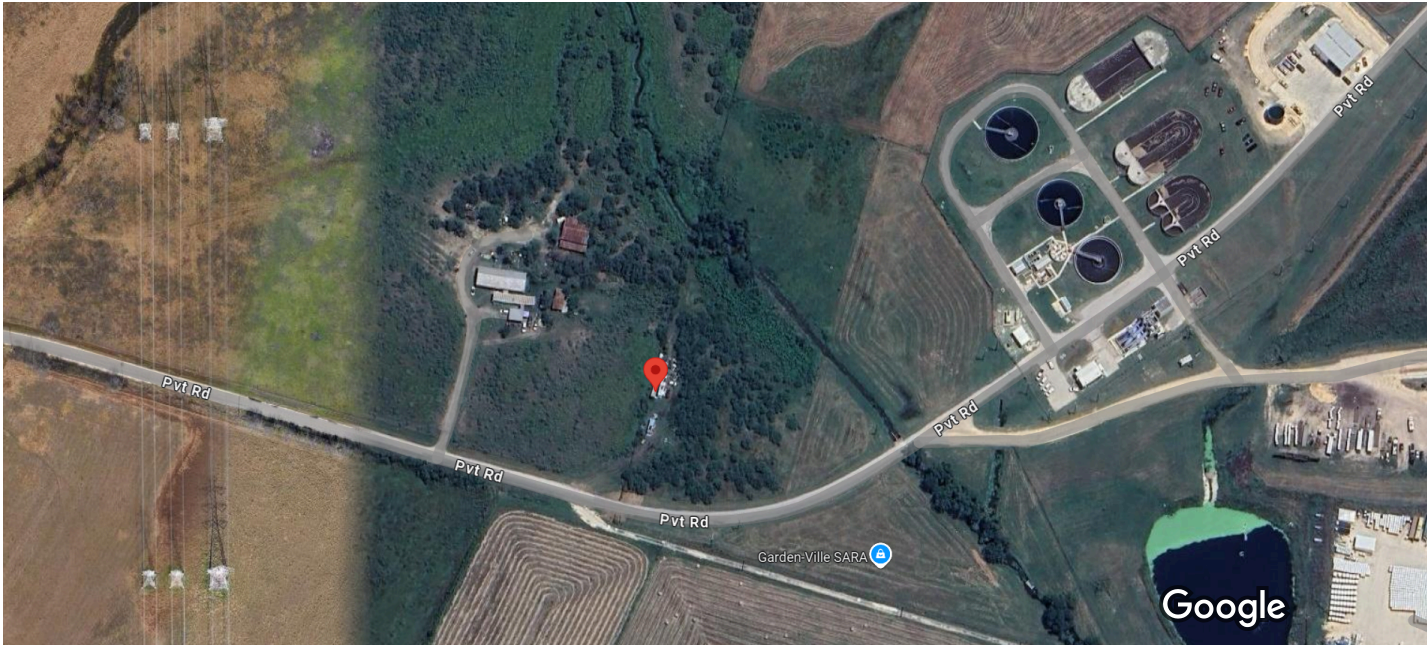
- CMRH+V4C I-10 East Corridor, Texas
- Add a missing place
- Add your business



- Restaurants
- Hotels
- Things to do
- Transit
- Parking
- Pharmacies
- ATMs

Sign in







Imagery ©2024 Airbus, CNES / Airbus, Maxar Technologies, Map data ©2024 100 ft





1720 Farm to Market 1516


Building

- 

Directions
- 

Save
- 

Nearby
- 

Send to phone
- 

Share



1720 Farm to Market 1516, Converse, TX 78109