Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

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

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

San Antonio River Authority (CN600790620) operates Salitrillo Creek Wastewater Treatment Plant (RN101514560), a wastewater treatment facility. The facility is located at 9638 Schaefer Road, in Converse, Bexar County, Texas 78109. The application request is for a renewal to discharge 7,330,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N) and Escherichia coli (E.coli). Domestic wastewater is treated by mechanical bar screen, aeration basins, final clarifiers and ultraviolet light 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 Salitrillo Creek Wastewater Treatment Plant (RN101514560), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 9638 Schaefer Road, en Converse, Condado de Bexar, Texas 78109. Esta solicitud es para una renovacion para descargar 7,330,000 galones por dia de aguas resisduales domesticas tratadas .

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquimica carbonosa de oxigeno ($CBOD_5$), solidos totalmente suspendidos (TSS), nitrogeno ammoniacal (NH_3-N y Escherichia coli (E.coli). Aguas residuals domesticas. 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. WQ0010749001

APPLICATION. San Antonio River Authority, 100 East Guenther Street, San Antonio, Texas 78204, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010749001 (EPA I.D. No. TX0053074) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 7,330,000 gallons per day. The domestic wastewater treatment facility is located at 9638 Schaefer Road, in the city of Converse, in Bexar County, Texas 78109. The discharge route is from the plant site to an unnamed ditch, thence to Salitrillo Creek, thence to Martinez Creek Soil Conservation Service Dam No. 6A Reservoir, thence to Salitrillo Creek, thence to Martinez Creek, thence to Lower Cibolo Creek. TCEQ received this application on February 4, 2025. The permit application will be available for viewing and copying at San Antonio River Authority Utilities Administration Building, Front Desk, 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=-98.298611,29.508611&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: February 26, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010749001

SOLICITUD. San Antonio River Authority, 100 East Guenther Street, San Antonio, TX 78204, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010749001 (EPA I.D. No. TX0053074) 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 anual promedio de 7,330,000 galones por día. La planta está ubicada en 9638 Schaefer Road, en la ciudad de Converse, en el Condado de Bexar, Texas. La ruta de descarga es del sitio de la planta a una zanja sin nombre, de allí a Salitrillo Creek, de allí a Martinez Creek Soil Convservation Service Dam No. 6A Reservoir, de allí a Salitrillo Creek, de allí a Martinez Creek, de allí a Lower Cibolo Creek. La TCEQ recibió esta solicitud el 4 de febrero, 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la recepción de San Antonio River Authority Utilities Administration Building, 1720 Farm-to-Market Road 1516 North, Converse, en el Condado de Bexar, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.298611,29.508611&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos

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

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

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

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

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

También se puede obtener información adicional 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: 26 de febrero de 2025

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010749001

APPLICATION AND PRELIMINARY DECISION. San Antonio River Authority, 100 East Guenther Street, 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. WQ0010749001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 7,330,000 gallons per day. TCEQ received this application on February 4, 2025.

The facility is located at 9638 Schaefer Road, in the City of Converse, Bexar County, Texas 78109**.** The treated effluent is discharged to unnamed ditch, thence to Salitrillo Creek, thence to Martinez Creek Soil Conservation Service Dam No. 6A Reservoir, thence to Salitrillo Creek, thence to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are minimal aquatic life use for unnamed ditch and Salitrillo Creek (upstream and downstream of reservoir), and high aquatic life use for the Martinez Creek Soil Conservation Service Dam No. 6A Reservoir. The designated uses for Segment No. 1902 are primary contact recreation 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=-98.298611,29.508611&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, Front Desk, 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/pending-permits/tpdes-applications.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from San Antonio River Authority at the address stated above or by calling Mr. Ernest Munoz, Quality Control Operator, at 210-302-4200.

Issuance Date: October 30, 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. WQ 0010749001

SOLICITUD Y DECISIÓN PRELIMINAR. San Antonio River Authority, 100 East Guenther Street, San Antonio, Texas 78204 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación del Permiso No. WQ0010749001 del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES), para autorizar descarga de aguas residuales domesticas tratadas con un caudal medo anual que no supere los 7,330,000 galones por día. La TCEQ recibió esta solicitud el 4 de Febrero, 2025.

La planta está ubicada en 9638 Schaefer Road, en la ciudad de Converse, en el Condado de, Bexar, Texas. El efluente tratado es descargado a una zanja sin nombre, de allí al arroyo Salitrillo, de allí al embalse de la presa No. 6A del Servicio de Conservación de Suelos del arroyo Martinez, de allí al arroyo Salitrillo, de allí al arroyo Martinez, de allí al arroyo Lower Cibolo en el Segmento No. 1902 de la Cuenca del Rio de San Antonio. Los usos de agua receptora no clasificados son el uso mínimo de vida acuática para la zanja sin nombre y el arroyo Salitrillo (aguas arriba y aguas abajo del embalse) y el uso elevado de vida acuática para el embalse de la prese No. 6A del Servicio de Conservacion de Suelos del Arroyo Martinez. Los usos designados para el Segmento No. 1902 son elevados de vida acuática 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, Recepción, 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=-98.298611,29.508611&level=18

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

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 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 TECQ 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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

Fecha de emission: 30 de octubre de 2025

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 4, 2025

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: ER105190
Application Reference Number: 713717
Authorization Number: WQ0010749001
Site Name: Salatrillo Creek WWTP
Regulated Entity: RN101514560 - Salitrillo Creek
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

WQ0010749001

Site Information (Regulated Entity)

What is the name of the site to be authorized?	SALATRILLO CREEK WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	9638 SCHAEFER RD
City	CONVERSE
State	TX
ZIP	78109
County	BEXAR
Latitude (N) (##.######)	29.508611
Longitude (W) (-###.######)	-98.298611
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)?	RN101514560
What is the name of the Regulated Entity (RE)?	SALITRILLO CREEK
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	9638 SCHAEFER RD
City	CONVERSE
State	TX
ZIP	78109
County	BEXAR
Latitude (N) (##.######)	29.507726
Longitude (W) (-###.######)	-98.297768
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 (###-###-####)	2102271373
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	landerson@SARA-TX.ORG

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600790620, San Antonio River Authority

Organization Name	SAN ANTONIO RIVER AUTHORITY
Prefix	
First	Leamon
Middle	
Last	Anderson
Suffix	
Credentials	
Title	
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 (###-###-####)	2102271373
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	landerson@SARA-TX.ORG

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	SAN ANTONIO RIVER AUTHORITY
Prefix	MR
First	Leamon
Middle	
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@sariverauthority.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:	Application Contact
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	Application 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 (###-###-####)	
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	MR
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	Application 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 (###-###-####)	
16) E-mail	landerson@sariverauhtority.org

Owner Information

Owner of Treatment Facility

1) Prefix	
2) First and Last Name	
3) Organization Name	San Antonio River Authority

4) Mailing Address	100 E Guenther
5) City	San Antonio
6) State	TX
7) Zip Code	78204
8) Phone (###-###-####)	2103024200
9) Extension	
10) Email	landerson@sariverauthority.org
11) What is ownership of the treatment facility?	Public
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	San Antonio River Authority
15) Mailing Address	100 E Guenther
16) City	San Antonio
17) State	TX
18) Zip Code	78204
19) Phone (###-###-####)	2103024200
20) Extension	
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:	08/11/2025
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?	7.33
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?	TX0053074
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):	Converse TX
6.5) County where the outfalls are located:	BEXAR
6.6) Is or will the treated wastewater discharge to a city, county, or	No

state highway right-of-way, or a flood control district drainage ditch?	
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	
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 Summary.pdf
Hash	0506F699F9B509CCF9A17D9D80DBC92EFB725475384D26A3B969EA84BA5A4524
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_Attachment 3-4_SPIF and Salitrillo USGS Map.pdf
Hash	4865562F6E9E1E15B567CD55AD142E40F2CCFE3B7CDD035685BEB8D3BB4B268A
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_Salitrillo USGS Map.pdf
Hash	DBFBB93F40BB2530680B5FB4F3FF055AE44D027B89CC71CD45167D00A2AA79FA

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 8_DTR 4.0.pdf
Hash	C9FFD309BB057567C7606505FC4F7E56E9E72E44E4CC2839FD5254C554A43B4B
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Attachment 9_DTR 5.0.pdf
Hash	D5BA8DAA510ECFD2B33CE5783F0632E482963EA4D6B1CBD1879A65D5FD46AC57
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Attachment 10_DTR 6.0.pdf
Hash	5A71AF8CCDBEBC53CD8172ACA1A95C7A010A4BA2AA13990270C17C9C83AA8AEA
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Attachment 6_DTR 1.0.pdf
Hash	82855F901FCF9B18E9E6F9E1334913A29955E14E2DBA446443946F27F3B25C68
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Attachment 7_DTR 2.0.pdf
Hash	35DFF44683F096127C9F68FFE7A6BFB37B50B0265A7C988BA72C92B18D7FAE14
MIME-Type	application/pdf
3) Buffer Zone Map	

[File Properties]

File Name BUFF_ZM_Buffer Zone Map_NR.pdf

Hash 6735B4025C5E8C84BA95C612B8A5F323D4EE678F9F6A21BE98E3321A87E0FCE3

MIME-Type application/pdf

4) Flow Diagram

[File Properties]

File Name FLDIA_Attachment 13_Flow Diagram.pdf

Hash 3639F3B74C0B5A59FBBD5480D8D1D492182B2E5E869ED5BEC4C712EE08854198

MIME-Type application/pdf

5) Site Drawing

[File Properties]

File Name SITEDR_Attachment 14_Site Drawing.pdf

Hash 8C177F69497284BB5098641D0C13F4CA85A6F843D043032FA20682B216E94E98

MIME-Type application/pdf

6) Design Calculations

[File Properties]

File Name DES_CAL_Design Calculations_NR.pdf

Hash 66BB100A8517694EF73C8A48BF952C2F090CF490711C5A27E06360729E614005

MIME-Type application/pdf

7) Solids Management Plan

8) Water Balance

[File Properties]

File Name WB_Water Balance_NR.pdf

Hash 991E4B6279267B5E000F3E44A69B978717E374797A04155066C1087DD37AB46C

MIME-Type application/pdf

9) Other Attachments

[File Properties]

File Name OTHER_Attachment 11_Treatment Description.pdf

Hash 5A70C2CF2DE517F81494A082744D9E861329678896E4565BF2C9D32DC1672D04

MIME-Type application/pdf

[File Properties]

File Name OTHER_Attachment 12_Treatment Dimensions.pdf

Hash F0B1C4FC021F31B70755893B7A3F806DB8D364EBB70BD4916A17C24886D4D159

MIME-Type application/pdf

[File Properties]	
File Name	OTHER_Attachment 15_Pollutant Analysis.pdf
Hash	BFAB99206B64BA93D17A0DD00776960FA5076F0DB037715F7A2250D02B057080
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 16_OtherSIU.pdf
Hash	2F4E34947013931AD4538522FED6A695CEB3F3FD50C96892702CBC77BC2DB691
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 17_SIUs.pdf
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MIME-Type	application/pdf
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File Name	OTHER_Attachment 18_SummaryTransmittal.pdf
Hash	0B513BB9D55F4355635927DC10F10531A768739711CAD77085765187FE844601
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 19_Notice of Completion.pdf
Hash	5E20034968DC1FA21EA15FF7191D2A9902012427641953DB42BE000A50AF323F
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Attachment 20_SummaryAgreedOrders.pdf
Hash	F0DB9C3E5426F1756CF81B6DA4D7F9DDE49B6ABF20FDD7B84EAD096705F91256
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 WQ0010749001.
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:	2025-02-04
Signature Hash:	F287F6022DBBB503604AF4BBA86AB90913F024DA6ACEF4F4BEB268E6358CE326
Form Hash Code at time of Signature:	76B323DE3452D522A7CEC6B50E8C005963E26F0A0BBCEA5312B8A051A660A31B

Fee Payment

Fee Amount:	$2000.00
Check Date:	The application fee was paid on 2025-01-14
Check Number:	The check number is M551048

Submission

Reference Number:	The application reference number is 713717
Submitted by:	The application was submitted by ER105190/ Ernest Munoz
Submitted Timestamp:	The application was submitted on 2025-02-04 at 14:15:50 CST
Submitted From:	The application was submitted from IP address 209.245.218.234
Confirmation Number:	The confirmation number is 626027
Steers Version:	The STEERS version is 6.86
Permit Number:	The permit number is WQ0010749001

Additional Information

Application Creator: This account was created by Ernest Munoz

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 2

Plain Language Summary

Reference: Domestic Administrative Report 1.0

Section 8F

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

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

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

San Antonio River Authority (CN600790620) operates Salitrillo Creek Wastewater Treatment Plant (RN101514560), a wastewater treatment facility. The facility is located at 9638 Schaefer Road, in Converse, Bexar County, Texas 78109. The application request is for a renewal to discharge 7,330,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N) and Escherichia coli (E.coli). Domestic wastewater is treated by mechanical bar screen, aeration basins, final clarifiers and ultraviolet light 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 Salitrillo Creek Wastewater Treatment Plant (RN101514560), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 9638 Schaefer Road, en Converse, Condado de Bexar, Texas 78109. Esta solicitud es para una renovacion para descargar 7,330,000 galones por dia de aguas resisduales domesticas tratadas .

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquimica carbonosa de oxigeno ($CBOD_5$), solidos totalmente suspendidos (TSS), nitrogeno ammoniacal (NH_3-N y Escherichia coli (E.coli). Aguas residuals domesticas. está tratado por reja mecanica, tanques de aireacion, clarificadores finales y desinfeccion ultravioleta.

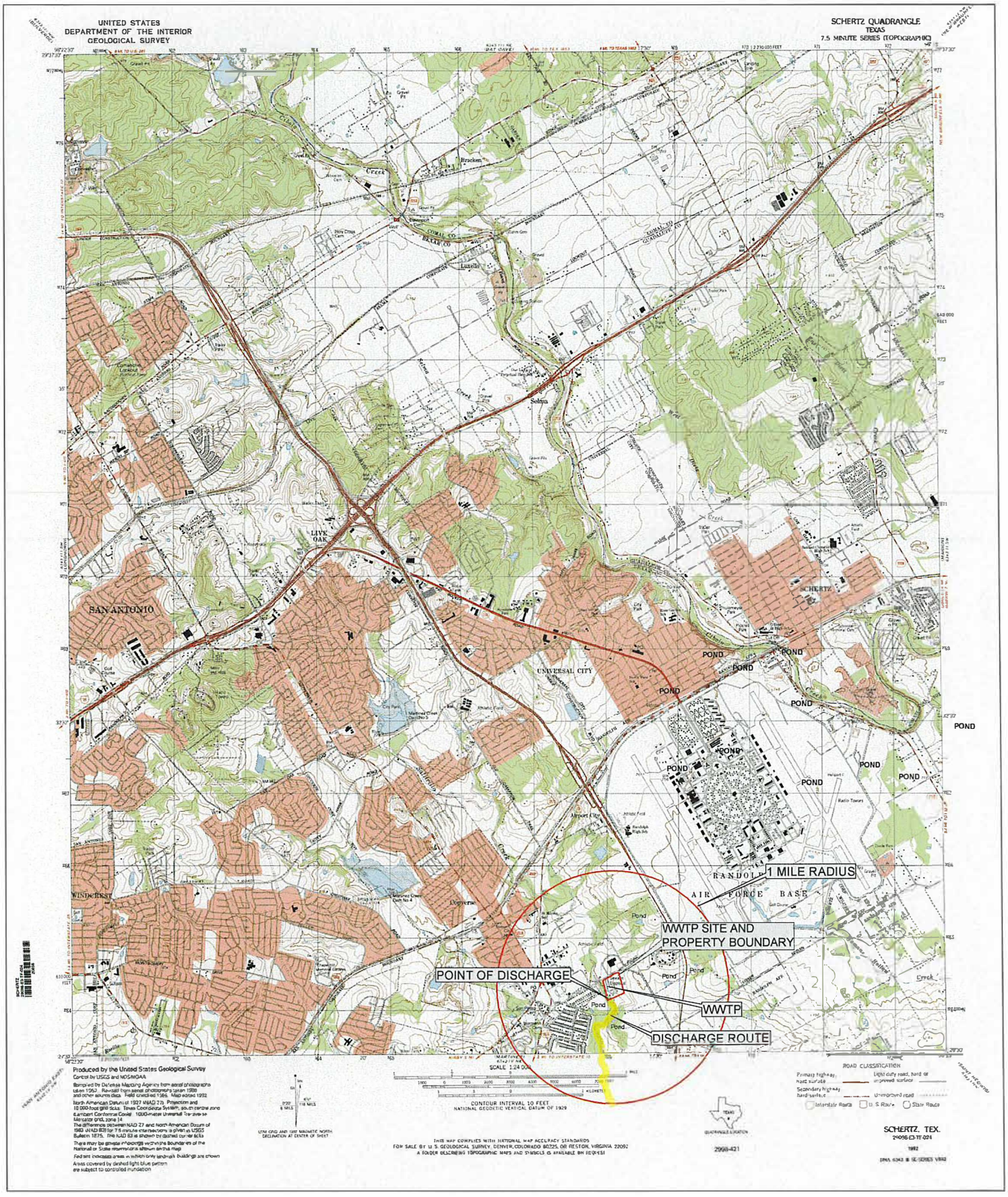
Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 5A and 5B

USGS Topographic Quadrangle Map (1:2400 Scale)

Reference: Domestic Technical Report 1.0

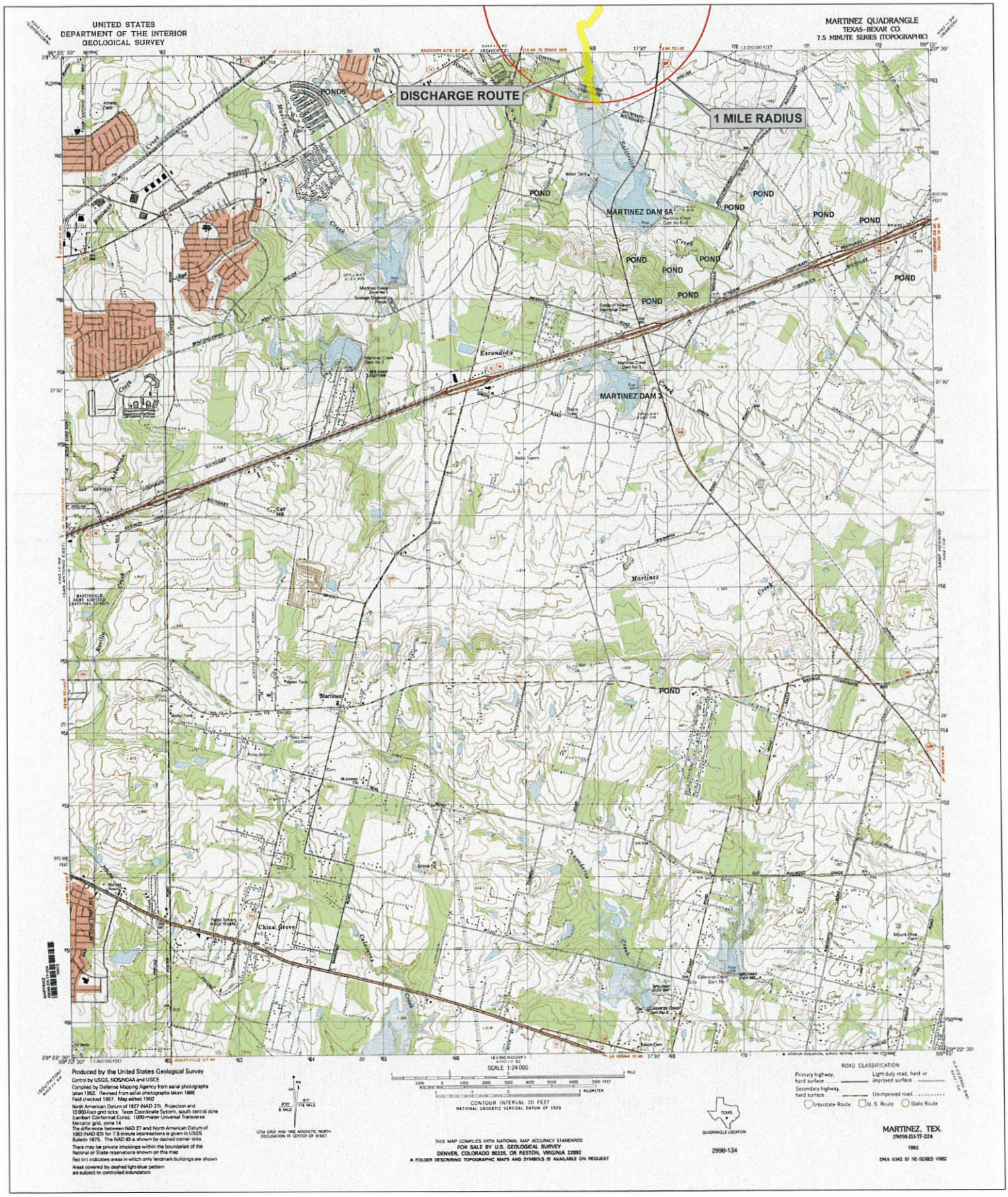
Section 13



Original USGS Topographic Map

N
W E
S

Attachment 5A



0 0.35 0.7 1.4 2.1 2.8 Miles

Original USGS Topographic Map

N W E S

Attachment 5B

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

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 10749-001 EPA ID No. TX 0053074

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

   9638 Schaefer Road, Converse, TX 78109 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.): Click here to enter text.

Title: Quality Control Operator

Mailing Address: 100 E Guenther

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

Phone No.: (210) 302-4200 Ext.: Click here to enter text. 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 treatment facility to an unnamed ditch; thence to Salitrillo Creek; thence to Martinez Creek Soil Conservation Dam No. 6A Reservoir; thence to Salitrillo Creek; thence 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). See Attachment 4

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

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 4A and 4B

USGS Map and General Location Map

Reference: Supplemental Permit Information Form (SPIF)

TCEQ Form 20971, Item 5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SCHERTZ QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

POND
POND
POND
POND
POND
POND
POND
POND
POND
POND

1 MILE RADIUS
WWTP BOUNDARY
POINT OF DISCHARGE
WWTP
DISCHARGE ROUTE

Produced by the United States Geological Survey
Control by USGS and NOS/NOAA

Compiled by Defense Mapping Agency from aerial photographs taken 1952. Revised from aerial photographs taken 1986 and other source data. Field checked 1986. Map edited 1992

North American Datum of 1927 (NAD 27). Projection and 10 000-foot grid ticks: Texas Coordinate System, south central zone (Lambert Conformal Conic). 1000-meter Universal Transverse Mercator grid, zone 14
The difference between NAD 27 and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Red tint indicates areas in which only landmark buildings are shown

Areas covered by dashed light-blue pattern are subject to controlled inundation

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

2998-421

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

SCHERTZ, TEX.
29098-E3-TF-024
1992
DMA 6343 III SE-SERIES V882

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA—1992

SCHERTZ
29098-E3-TF-024

0 0.35 0.7 1.4 2.1 2.8 Miles

Original USGS Topographic Map

N
W E
S

Attachment 4A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MARTINEZ QUADRANGLE
TEXAS–BEXAR CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

DISCHARGE ROUTE

1 MILE RADIUS

PONDS

POND

MARTINEZ DAM 6A

MARTINEZ DAM 3

Martinez Creek Dam No 1

Martinez Creek Dam No 2

Martinez Creek Dam No 3

Martinez Creek Dam No 6-A

Calaveras Creek Dam No 7

Calaveras Creek Dam No 6

Martinez

Escondido

China Grove

Calf Hill

MARTINDALE ARMY AIRFIELD (NATIONAL GUARD)

Produced by the United States Geological Survey

Control by USGS, NOS/NOAA and USCE

Compiled by Defense Mapping Agency from aerial photographs taken 1952. Revised from aerial photographs taken 1986
Field checked 1987. Map edited 1992

North American Datum of 1927 (NAD 27). Projection and 10 000-foot grid ticks: Texas Coordinate System, south central zone (Lambert Conformal Conic). 1000-meter Universal Transverse Mercator grid, zone 14
The difference between NAD 27 and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

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UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

2998-134

ROAD CLASSIFICATION

MARTINEZ, TEX.
29098-D3-TF-024
1992
DMA 6342 IV NE–SERIES V882

0 0.35 0.7 1.4 2.1 2.8 Miles

Original USGS Topographic Map

N W E S

Attachment 4B

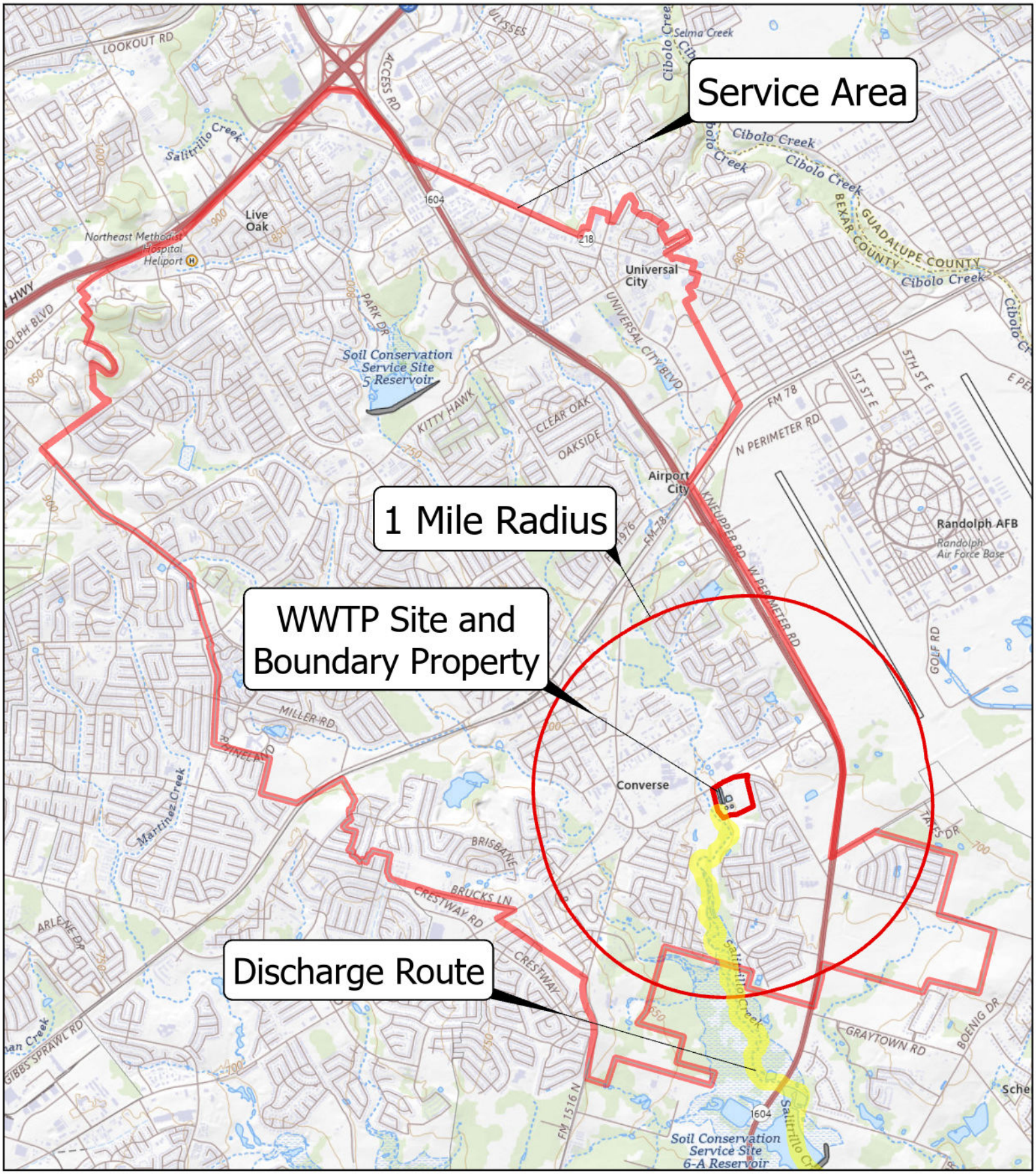
Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 14A and 14B

Site Drawing

Reference: Domestic Technical Report 1.0

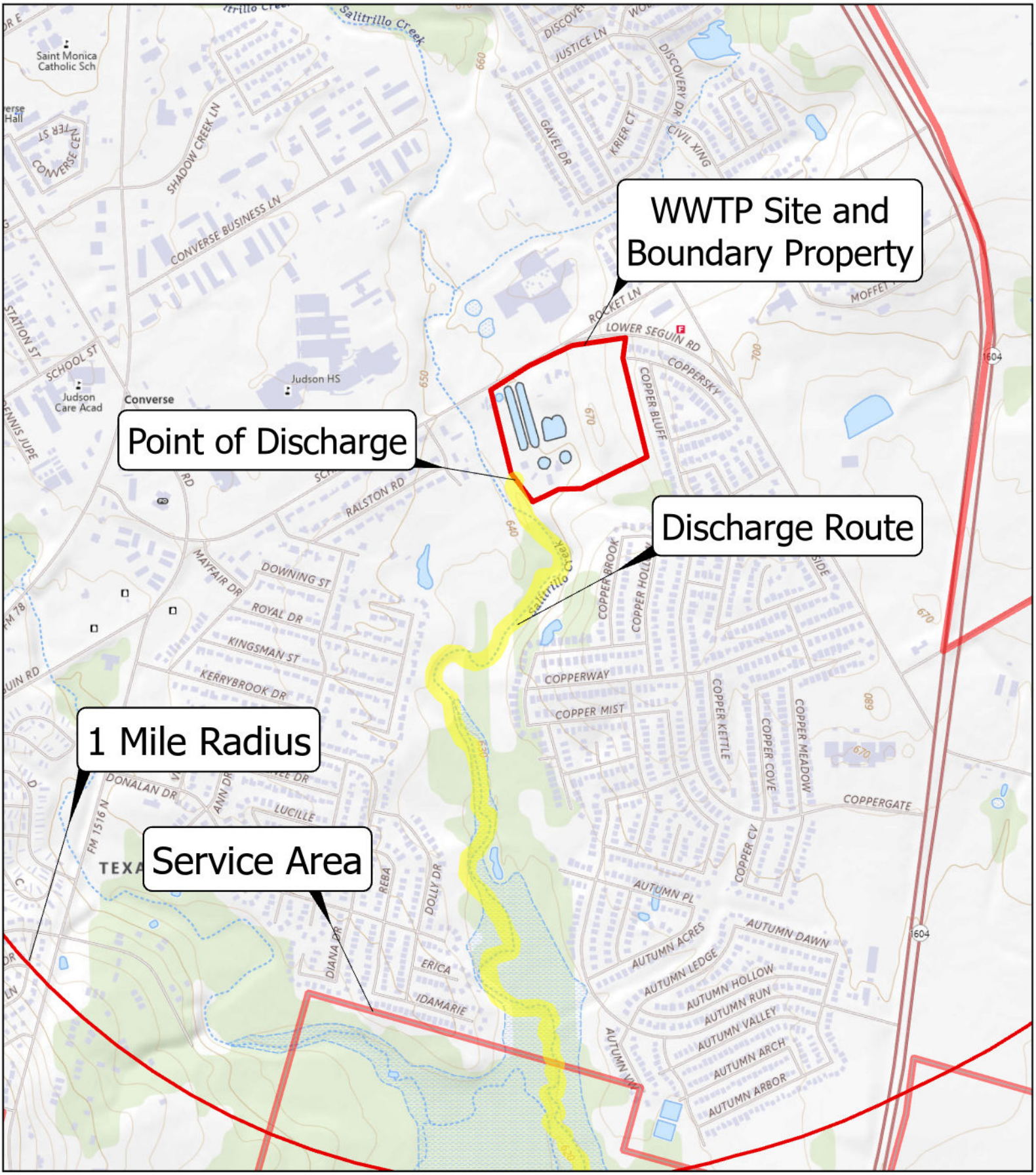
Section 3



0 0.25 0.5 1 1.5 2 Miles

Attachment 14A

Facility Site Drawing and Service Area



0 0.050.1 0.2 0.3 0.4 Miles

Attachment 14B

Facility Site Drawing and Service Area

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 19

Notice of Completion

Form TCEQ-20007

Reference: Domestic Technical Report 1.0

Section 12C

SAN ANTONIO
RIVER AUTHORITY

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
Jerry G. Gonzales
District 2
Lourdes Galvan
District 3
Michael W. Lackey, P.E.
District 4
Jim Campbell
At-Large
Liza Barratachea
Patrice A. Melancon
WILSON COUNTY
Dominic Carvajal
Derek J. Gaudlitz
KARNES COUNTY
H.B. Ruckman, III
Gaylon J. Oehlke
GOLIAD COUNTY
James Fuller, M.D.
Alicia Lott Cowley
GENERAL MANAGER
Derek Boese, JD, PMP

UT-SALA-TCEQ

March 20, 2024

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (9598 0710 5270 0946 9901 03)

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC 148)
P.O. Box 13087
Austin, Texas 78711-3087

Reference: Salitrillo WWTP; Permit No. WQ0010749-001;
RN101514560; CN600790620

Enclosed is the Notification of Completion/Phase of Wastewater Treatment Facility form for the above referenced plant scheduled to be placed in operation on May 17, 2024.

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

Sincerely,

DANIEL FLORES
Utilities Quality Control Superintendent

CC: Texas Commission on Environmental Quality, Region 13, Attn: Javier Anguiano, 14250 Judson Rd., San Antonio, Texas 78233

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
NOTIFICATION OF COMPLETION/PHASE OF WASTEWATER TREATMENT FACILITY

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

Current Permit Information

What is the TCEQ Water Quality Permit Number? WQ0010749001

What is the EPA I.D. Number? TX 0053074

Current Name on Permit: Salitrillo Creek Wastewater Treatment Facility

Notification

Indicate the phase the facility will be operating.

- ☐ Interim Phase I Flow
- ☐ Interim Phase II Flow
- ☐ Interim Phase III Flow
- ☒ Final Phase Flow

Indicate the date that the operation began or will begin operating under the selected phase: Month/Day/Year: May 17,2024

Comments:

Certification and Signature

Responsible Official Name (Print or Type): Derek Boese

Responsible Official Title: General Manager

Responsible Official Email: dboese@sariverauthority.org

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

Signature (use blue ink): _____ Date: 19 MAR 24

Email completed form to: **WQ-ARPTeam@tceq.texas.gov**
or

Fax completed form to: **512-239-0884**
or mail completed form to: Texas Commission on Environmental Quality
Applications Review and Processing Team (MC-148)
P.O. Box 13087
Austin TX 78711-3087

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Buffer Zone Map

This application is for a renewal, Buffer Zone Map is not required.

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

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 42)

A. Existing/Interim I Phase

Design Flow (MGD): 7.33

2-Hr Peak Flow (MGD): 18.33

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: 08/01/1999

Section 2. Treatment Process (Instructions Page 42)

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**.

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 43)

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

- Latitude: 29.507145
- Longitude: -98.298655

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.

Cities of Converse, Universal City, Live Oak and 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
Salitrillo	SARA	**Publicly Owned**	54,441
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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 44)

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.

A closure plan was not submitted, however, a description of the removal of treatment equipment was noted in a summary transmittal letter. See Section 6-A below.

Section 6. Permit Specific Requirements (Instructions Page 44)

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:

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**.

A summary transmittal letter dated November 30, 2021, was sent to the TCEQ Water Quality Division MC – 148 noting the changes within the facility. An approval letter from TCEQ was sent dated March 10, 2022. Please see Attachment 18 to view correspondence.

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*.

Other Requirements item 7: A summary transmittal letter dated November 30, 2021, was submitted to TCEQ and an approval letter dated March 10, 2022, was received from TCEQ in response. Please see Attachment 18.

Other Requirements item 8: A Notice of Completion form 20007 was submitted to TCEQ on March 20, 2024. Please see Attachment 19.

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.

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.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☒ Yes ☐ No

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

TXR05 K745 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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3	3	1	Comp	09/17/2024 07:00 AM
Total Suspended Solids, mg/l	1	1	1	Comp	09/17/2024 07:00 AM
Ammonia Nitrogen, mg/l	0.90	0.90	1	Comp	09/17/2024 07:00 AM
Nitrate Nitrogen, mg/l	5.3	5.3	1	Comp	09/17/2024 07:00 AM
Total Kjeldahl Nitrogen, mg/l	5	5	1	Comp	09/17/2024 07:00 AM
Sulfate, mg/l	75	75	1	Comp	09/17/2024 07:00 AM
Chloride, mg/l	208	208	1	Comp	09/17/2024 07:00 AM
Total Phosphorus, mg/l	3.23	3.23	1	Comp	09/17/2024 07:00 AM
pH, standard units	7.4 min	8.2 max	21	Grab	Sep 2024
Dissolved Oxygen*, mg/l	6.10 min	7.03 max	17	Grab	Sep 2024
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
E.coli (CFU/100ml) freshwater	2	45	30	Grab	Sep 2024
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	3.558	3.558	1	Comp	09/17/2024 07:00 AM
Electrical Conductivity, µmohs/cm, †	1093	1093	1	Comp	09/17/2024 07:00 AM
Oil & Grease, mg/l	5.0	5.0	1	Comp	09/17/2024 07:00 AM
Alkalinity ($CaCO_3$)*, mg/l	186	186	1	Comp	09/17/2024 07:00 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		

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
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 49)

Facility Operator Name: Travis Krueger

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

Facility Operator's License Number: WW0048037

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)

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

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or 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
Distribution & Marketing-Composting	Off-site Third-Party Handler or Preparer	Not Applicable	800	N/A: Transported to another facility for further processing	N/A: Trasporrted to another facility for further processing
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Not Applicable	50	N/A: Disposal in Landfill	N/A: Disposal in Landfill
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Click to enter text.

D. Disposal site

Disposal site name: Republic, Tessman Rd. Landfill/Gardenville-Martinez II WWTP Compost Facility

TCEQ permit or registration number: 1410/WQ0010749-004

County where disposal site is located: Bexar

E. Transportation method

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

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 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: Click to enter text.

- USDA Natural Resources Conservation Service Soil Map:

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: Click to enter text.

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

  Attachment: Click to enter text.

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

  Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

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. R10749-001

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:

See Attachment 20

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 55)

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: Deputy Director, Utilities Operations

Signature: _____

Date: 1-24-25

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

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 63)

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

☐ Yes ☒ No

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

Owner of the drinking water supply: 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 63)

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 63)

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 63)

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.

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 65)

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.

☐ Livestock watering

☐ Irrigation withdrawal

☐ Fishing

☐ Domestic water supply

☐ Park activities

☐ Contact recreation

☐ Non-contact recreation

☐ Navigation

☐ Industrial water supply

☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

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

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 8

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: 9/17/2024 @ 0945 - grab @0700 Comp

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	11.0		1	2.5
Anthracene	<10		1	10
Antimony	<5		1	5
Arsenic	0.5		1	0.5
Barium	79		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	5		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	360		1	200
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	3		1	2
Nitrate-Nitrogen	5,300		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)	<0.01		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	25		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: 9/17/2024 @ 0945 - grab @0700 Comp

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)	5		1	N/A
Copper	<2		1	2
Lead	<0.5		1	0.5
Mercury	<0.005		1	0.005
Nickel	3		1	2
Selenium	<5		1	5
Silver	<0.5		1	0.5
Thallium	<0.5		1	0.5
Zinc	25		1	5
Cyanide (*2)	<10		1	10
Phenols, Total	16		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	MAL (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 "<".

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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 1 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
CBOD5	<3	mg/L	3	09/17/2024 14:56	SM 5210 B	PML
Chloride_IC	208	mg/L	2	09/18/2024 05:57	EPA 300.0	JAS
Conductivity, Specific	1,093	µmhos/cm at 25° C	1	09/19/2024 08:20	SM 2510B	LCC
Nitrate-N_IC	5.3	mg/L	0.2	09/18/2024 05:57	EPA 300.0	JAS
Phosphorus, Total	3.23	mg/L	0.10	09/20/2024 04:40	SM 4500-P/B/E	JAS
Sulfate_IC	75	mg/L	2	09/18/2024 05:57	EPA 300.0	JAS
Total Dissolved Solids	656	mg/L	10	09/18/2024 12:50	SM 2540C	CLH/BMR
Total Suspended Solids	<1	mg/L	1	09/17/2024 16:45	SM 2540 D	LCC

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
CBOD5	<1	23	N/A	N/A	N/A	N/A	185	167 - 228	
Chloride_IC	1	10	95	99	98	102	100	85 - 115	
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N_IC	1	20	70	102	101	130	100	85 - 115	
Phosphorus, Total	2	10	91	101	99	103	99	85 - 115	
Sulfate_IC	1	10	94	99	98	101	108	85 - 115	
Total Dissolved Solids	3.558	10	N/A	N/A	N/A	N/A			
Total Suspended Solids	5	10	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.

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QC Data Reported in %, Except BOD in mg/L

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Ammonia-N (ISE)	0.9	mg/L	0.1	09/19/2024 12:20	SM 4500-NH3 D	BMR
Fluoride_IC	0.36	mg/L	0.20	09/18/2024 05:57	EPA 300.0	JAS
Kjeldahl-N, Total	5	mg/L	1	09/23/2024 10:05	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	186	mg/L	10	09/20/2024 07:10	SM 2320 B	LCC
Arsenic/ICP MS	0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Barium/ICP (Total)	0.079	mg/L	0.010	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.001	mg/L	0.001	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Chromium/ICP (Total)	<0.003	mg/L	0.003	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Ammonia-N (ISE)	1	10	80	100	99	120	88	85 - 115	
Fluoride_IC	1	10	87	99	98	105	102	85 - 115	
Kjeldahl-N, Total	1	10	90	99	100	109	106	85 - 115	<1
Alkalinity, Total (@pH 4.5)	1	10	95	98	99	107	98	85 - 115	
Arsenic/ICP MS	3	20	70	105	102	130	99	85 - 115	
Barium/ICP (Total)	<1	20	75	93	93	125	100	85 - 115	
Cadmium/ICP (Total)	2	20	75	100	98	125	100	85 - 115	
Chromium/ICP (Total)	1	20	75	95	94	125	100	85 - 115	

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088** **Page 3 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Copper/ICP (Total)		0.005	mg/L	0.002	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Lead/ICP MS		<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Aluminum/ICP (Total)		0.011	mg/L	0.010	09/19/2024 15:30	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)		<0.0005	mg/L	0.0005	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Trivalent Chromium		<0.003	mg/L	N/A	09/19/2024 14:00	Calculation	DJL
Hexavalent Chrome	R	<0.003	mg/L	0.003	09/17/2024 16:05	SM 3500-Cr B	DJL
Nickel/ICP (Total)		0.003	mg/L	0.002	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Zinc/ICP (Total)		0.025	mg/L	0.005	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Copper/ICP (Total)	<1	20	75	100	100	125	105	85 - 115	
Lead/ICP MS	3	20	70	111	108	130	106	85 - 115	
Aluminum/ICP (Total)	10	20	75	109	99	125	95	85 - 115	
Beryllium/ICP (Total)	1	20	75	99	98	125	100	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	2	20	75	*72	*74	125	101	85 - 115	
Nickel/ICP (Total)	2	20	75	93	91	125	100	85 - 115	
Zinc/ICP (Total)	1	20	75	97	96	125	105	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.*

*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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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 4 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Antimony/ICP MS	<0.005	mg/L	0.005	09/26/2024 09:27	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	09/26/2024 09:27	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Pesticides 617	See Attached				DHL	
604.1 Hexachlorophene	See Attached				DHL	
Semi Volatiles 625	See Attached				DHL	
Pesticides 608	See Attached				DHL	

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Antimony/ICP MS	4	20	70	107	103	130	100	85 - 115	
Thallium/ICP MS	2	20	70	106	104	130	100	85 - 115	
Selenium/ICP MS	1	20	70	106	104	130	103	85 - 115	
Silver/ICP MS	4	20	70	98	94	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								
Pesticides 608	See Attached Report for Quality Assurance Information								

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 5 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

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

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
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								

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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:** Salatillo Major Permit Renewal **Sample ID:** Effluent **Matrix:** Non-Potable Water **Date/Time Taken:** 9/17/2024 09:45	**PCS Sample #:** 775089 **Page 1 of 1** **Date/Time Received:** 9/17/2024 10:33 **Report Date:** 10/4/2024 **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	09/23/2024 09:00	EPA 1664 Rev	EMV
Mercury/CVAFS		<0.000005	mg/L	0.000005	10/04/2024 09:39	EPA 245.7	DJL
Phenols, Distillable			See Attached			SPL	
Cyanide, Amenable	+		See Attached			DHL	
Volatiles 624			See Attached			DHL	

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Oil and Grease (H.E.M.)	2	18	N/A	N/A	N/A	N/A	96	78 - 114	
Mercury/CVAFS	7	20	70	106	98	130	112	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*

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POLLUTION CONTROL SERVICES

Chain of Custody Number: 775088

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION

Name: San Antonio River Authority

REPORT INFORMATION

Attention: Russell Neal | Phone: (210) 844-0201 | Fax: (210) 661-9324

SAMPLE INFORMATION

Project Information:
Salatrillo - TCEQ Major Permit Renewal
Report "Soils" ☐ As Is ☐ Dry Wt.

Collected By: Ernest Muñoz

Client / Field Sample ID	Collected Date	Collected Time	Field Chlorine Residual mg/L	Composite or Grab	Matrix (DW-Drinking Water; NPW-Non-potable water; WW-Wastewater; LW-Liquid Waste)	Container Type	Container Number	Preservative	Requested Analysis: CBOD, TSS, TDS, SO4, Cl, SpCond, HexCr, TriCr, NO3N, Talk, F-	Requested Analysis: NH3N, TKN, TPO4P, Metals*	Requested Analysis: 604.1 Hex, Herb 615, Pest 1657, 608, 617, 632, SVOC 625	Requested Analysis: FOG (HEM)	Requested Analysis: VOC 624	Requested Analysis: CN-A	Requested Analysis: Phenol (Dist)	Requested Analysis: Low Level Hg	Instructions/Comments: *Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, Sb MS, As MS, Pb MS, Se MS, Ag MS, Tl MS	PCS Sample Number
Effluent	Start: 9-16-24	Start: 9:00 AM		☒C ☐G	☐DW ☒NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☑P ☑G ☐O	10	☑H_2SO_4 ☑HNO_3 ☐H_3PO_4 ☐NaOH ☑ICE ☐	X	X	X							775088
	End: 9-17-24	End: 7:00 AM																☒S ☐B ☒N ☐HEM Other:
Effluent	Start: 9-17-24	Start:		☐C ☒G	☐DW ☒NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O	10	☑H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☑NaOH ☐ICE ☐				X	X	X	X	X		775089
	End: ~~7:15 AM~~	End: 9:45 AM																☐S ☐B ☐N ☒HEM Other: NaOH
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:

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:	Ernest Muñoz	Date: 9-17-24	Time: 10:35 am	Received By:		Date: 9/17/24	Time: 10:33		
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

1118544 CoC Print Group 001 of 001

POLLUTION CONTROL SERVICES

1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
Facsimilie 210.658.7903
210.340.0343

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

TO: SPL
2600 Dudley Road
Kilgore, TX 75662

Relinquished by: Emily Voges FedEx
Date/Time: 09/17/2024 @1500
Received by: McClyon fromfedex
Date/Time: 9/18/24 1025

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
775088	09/17/2024	07:00	Herbicides 615 2335466	Ice	Std
775089	09/17/2024	09:45	Phenols, Distillable 568	H_2SO_4, Ice	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: _____ Date: 9/17/2024

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

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PCSL-C

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Printed 10/01/2024
12:16

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1118544_r10_05_ProjectQC	SPL Kilgore Project P:1118544 C:PCSL Project Quality Control Groups	2
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SAMPLE CROSS REFERENCE

Project
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Printed 10/1/2024 Page 1 of 1
ww

Pollution Control Services Laboratories
Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Sample	Sample ID	Taken	Time	Received
2335566	*775088*	09/17/2024	07:00:00	09/18/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Prepared Bottle: 2 mL Autosampler Vial (Batch 1139567) Volume: 1.00000 mL <== Derived from 01 (949 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	02	1139567	09/24/2024	1140168	09/27/2024

Sample	Sample ID	Taken	Time	Received
2335568	*775089*	09/17/2024	09:45:00	09/18/2024

Bottle 01 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid
Bottle 02 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1138833) Volume: 6.00000 mL <== Derived from 01 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 420.4 1	02	1138833	09/19/2024	1139503	09/24/2024

Email: Kilgore.ProjectManagement@spllabs.com

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RESULTS

Sample Results

2335566 775088 — Received: 09/18/2024

Non-Potable Water — Collected by: Client — Pollution Control Se — PO:
Taken: 09/17/2024 07:00:00

EPA 615 — Prepared: 1139567 09/24/2024 13:50:00 — Analyzed 1140168 09/27/2024 03:08:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.0527	ug/L	0.0527		94-75-7	02
NELAC	2,4,5-TP (Silvex)	<0.0316	ug/L	0.0316		93-72-1	02

2335568 775089 — Received: 09/18/2024

Non-Potable Water — Collected by: Client — Pollution Control Se — PO:
Taken: 09/17/2024 09:45:00

EPA 420.4 1 — Prepared: 1138833 09/19/2024 11:45:24 — Analyzed 1139503 09/24/2024 08:32:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	0.016	mg/L	0.005			02

Sample Preparation

2335566 775088 — Received: 09/18/2024

09/17/2024

Prepared: 0 09/18/2024 16:13:17 — Calculated 09/18/2024 16:13:17 CAL

z	Return Cooler with bottles	Verified

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2335566 **775088** Received: 09/18/2024

09/17/2024

EPA 615		*Prepared:*	*1139567*	*09/24/2024*	*13:50:00*	*Analyzed*	*1139567*	*09/24/2024*	*13:50:00*	*LSM*
NELAC	**Esterification of Sample**	**1/949**	**ml**							01
EPA 615		*Prepared:*	*1139567*	*09/24/2024*	*13:50:00*	*Analyzed*	*1140168*	*09/27/2024*	*03:08:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								02

2335568 **775089** Received: 09/18/2024

09/17/2024

		Prepared:	*0*	*09/18/2024*	*16:13:17*	*Calculated*		*09/18/2024*	*16:13:17*	*CAL*
z	**Return Cooler with bottles**	**Verified**								
EPA 420.4 1		*Prepared:*	*1138833*	*09/19/2024*	*11:45:24*	*Analyzed*	*1138833*	*09/19/2024*	*11:45:24*	*SRJ*
NELAC	**Phenol Distillation**	**6/6**	**ml**							01

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Printed: 10/01/2024

Qualifiers:

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.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Suite 100
Universal City, TX 78148

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Printed 10/01/2024

Analytical Set 1139503 — EPA 420.4 1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Phenolics, Total Recoverable	1138833	ND	0.003	0.005	mg/L	126809832

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.199	0.200	mg/L	99.5	90.0 - 110	126809831
Phenolics, Total Recoverable	0.199	0.200	mg/L	99.5	90.0 - 110	126809840
Phenolics, Total Recoverable	0.194	0.200	mg/L	97.0	90.0 - 110	126809846
Phenolics, Total Recoverable	0.192	0.200	mg/L	96.0	90.0 - 110	126809857
Phenolics, Total Recoverable	0.191	0.200	mg/L	95.5	90.0 - 110	126809860

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Phenolics, Total Recoverable	2334706	0.034	0.036	mg/L	5.71	20.0
Phenolics, Total Recoverable	2335734	0.070	0.077	mg/L	9.52	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.202	0.200	mg/L	101	90.0 - 110	126809830

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Phenolics, Total Recoverable	1138833	0.193	0.198	0.200	90.0 - 110	96.5	99.0	mg/L	2.56	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*	
Phenolics, Total Recoverable	2334706	0.214	0.036	0.200	mg/L	89.0	90.0 - 110	126809837	*
Phenolics, Total Recoverable	2335734	0.313	0.077	0.200	mg/L	118	90.0 - 110	126809841	*

Analytical Set 1140168 — EPA 615

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
2,4 Dichlorophenoxyacetic acid	1139567	ND	15.9	50.0	ug/L	126826089
2,4,5-TP (Silvex)	1139567	ND	0.0893	0.300	ug/L	126826089

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4 Dichlorophenoxyacetic acid	142	150	ug/L	94.4	80.0 - 115	126826088
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.7	80.0 - 115	126826097
2,4,5-TP (Silvex)	142	150	ug/L	94.4	80.0 - 115	126826088
2,4,5-TP (Silvex)	139	150	ug/L	92.7	80.0 - 115	126826097

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
2,4 Dichlorophenoxyacetic acid	1139567	95.5	92.0	100	0.100 - 319	95.5	92.0	ug/L	3.73	30.0
2,4,5-TP (Silvex)	1139567	0.819	0.795	1.00	0.100 - 244	81.9	79.5	ug/L	2.97	30.0

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4-Dichlorophenylacetic Acid		CCV	139	200	ug/L	69.5	0.100 - 313	126826088
2,4-Dichlorophenylacetic Acid		CCV	137	200	ug/L	68.5	0.100 - 313	126826097
2,4-Dichlorophenylacetic Acid	1139567	Blank	130	200	ug/L	65.0	0.100 - 313	126826089
2,4-Dichlorophenylacetic Acid	1139567	LCS	100	200	ug/L	50.0	0.100 - 313	126826090
2,4-Dichlorophenylacetic Acid	1139567	LCS Dup	97.2	200	ug/L	48.6	0.100 - 313	126826091
2,4-Dichlorophenylacetic Acid	2335566	Unknown	0.120	0.211	ug/L	56.9	0.100 - 313	126826092

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / 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.)

1118544 CoC Print Group 001 of 001



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.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 ServiceGuide. 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
Facsimilie 210.658.7903
210.340.0343

2409128

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

TO: DHL Analytical
2300 Double Creek Dr
Round Rock, TX 78664

Relinquished by: Emily Voges
Date/Time: 09/17/2024 @ 1500
Received by:
Date/Time: 9/18/24-0953
via Telux

	PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
01	775088	09/17/2024	07:00	604.1 Hexachlorophene	Ice	Std
	775088	----------	----	Semi Volatiles 625	Ice	----
	775088	----------	----	Pesticide 1657	Ice	----
	775088	----------	----	Pesticides 608	Ice	----
	775088	----------	----	Pesticides 617	Ice	----
	775088	----------	----	Pesticides 632	Ice	----
02	775089	09/17/2024	09:45	Cyanide, Amenable	NaOH, Ice	Std
	775089	----------	-------	Volatiles 624	Ice	Std

Comments/Special Instructions: 0.6°C thermo#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: Emily Voges Date: 9/17/2024

DHL ANALYTICAL

September 30, 2024

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd. #100
Universal City, TX 78148
TEL: (210) 394-4570
FAX:

Order No.: 2409128

RE: PCS 775088

Dear Chuck Wallgren:

DHL Analytical, Inc. received 2 sample(s) on 9/18/2024 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,

Joel Grice
Executive VP of Environmental

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

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DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES 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 for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected:

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
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron				0.09
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				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:

Table 4.0(2)A - Metals, Cyanide, Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				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
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				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
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				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
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				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
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

FROM: (210) 340-0343
Chuck Wallgren

1532 Universal City Blvd. #100

Universal City TX 78148
US

SHIP DATE: 17SEP24
ACTWGT: 60.00 LB
CAD: 112447368/INET4760
DIMMED: 26 X 15 X 15 IN

BILL SENDER

TO john dupont
DHL Analytical

2300 Double Creek

ROUND ROCK TX 78664 (US)
(512) 388-8222 REF:
INV:
PO: DEPT:

583J2/4EF9/9AE3

FedEx Ground

J243024071301uv

TRK# 7786 4745 6314

78664

9622 0019 0 (000 000 0000) 0 00 7786 4745 6314

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **Pollution Control Services**

Date Received: **9/18/2024**

Work Order Number: **2409128**

Received by: **KAO**

Checklist completed by: _____ 9/18/2024 (Signature / Date)

Reviewed by: SH 9/18/2024 (Initials / Date)

Carrier name: FedEx Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 12798
	Adjusted? No		Checked by EL
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 0.6

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: _____

DHL Analytical, Inc. **Date:** *30-Sep-24*

CLIENT: Pollution Control Services
Project: PCS 775088
Lab Order: 2409128

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

ASTM, EPA and Standard Methods.

The compounds Nonylphenol and Dicofol are not NELAP Certified.

The compounds Diuron and Hexachlorophene are not NELAP Certified.

Several compounds for Pesticides 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 Heptachlor epoxide for the Laboratory Control Spike and the Laboratory Control Spike Duplicate (LCS/LCSD-117266) was below the method control limits. This is flagged accordingly in the QC Summary Report. This compound was within method control limits in the associated ICV. No further corrective action was taken.

DHL Analytical, Inc.

Date: *30-Sep-24*

CLIENT: Pollution Control Services
Project: PCS 775088
Lab Order: 2409128

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2409128-01	775088		09/17/24 07:00 AM	09/18/2024
2409128-02	775089		09/17/24 09:45 AM	09/18/2024

DHL Analytical, Inc.

Date: *30-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775088
Project:	PCS 775088	**Lab ID:**	2409128-01
Project No:		**Collection Date:**	09/17/24 07:00 AM
Lab Order:	2409128	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE BY LCMS		**E632**					Analyst: **RA**
Diuron	<0.0000297	0.0000297	0.0000792	N	mg/L	1	09/25/24 04:37 PM
Hexachlorophene	<0.000990	0.000990	0.00495	N	mg/L	1	09/25/24 04:37 PM
625.1 PCB BY GC/MS		**E625.1**					Analyst: **JVR**
Aroclor 1016	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1221	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1232	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1242	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1248	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1254	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Aroclor 1260	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Total PCBs	<0.0000929	0.0000929	0.000186		mg/L	1	09/23/24 04:58 PM
Surr: 2-Fluorobiphenyl	87.3	0	43-116		%REC	1	09/23/24 04:58 PM
Surr: 4-Terphenyl-d14	94.6	0	33-141		%REC	1	09/23/24 04:58 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **JVR**
Anthracene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Benzidine	<0.000968	0.000968	0.00387		mg/L	1	09/23/24 07:14 PM
Benzo[a]anthracene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Benzo[a]pyrene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Bis(2-chloroethyl)ether	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Bis(2-ethylhexyl)phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
Chrysene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
4,6-Dinitro-o-cresol	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
o-Cresol	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
p-Chloro-m-Cresol	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
m,p-Cresols	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
3,3´-Dichlorobenzidine	<0.000968	0.000968	0.00484		mg/L	1	09/23/24 07:14 PM
2,4-Dimethylphenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Di-n-butyl phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
Hexachlorobenzene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Hexachlorobutadiene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Hexachlorocyclopentadiene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Hexachloroethane	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Nitrobenzene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
N-Nitrosodiethylamine	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
N-Nitrosodi-n-butylamine	<0.000968	0.000968	0.00387		mg/L	1	09/23/24 07:14 PM
Pentachlorobenzene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Pentachlorophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 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-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775088
Project:	PCS 775088	**Lab ID:**	2409128-01
Project No:		**Collection Date:**	09/17/24 07:00 AM
Lab Order:	2409128	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **JVR**
Phenanthrene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Pyridine	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
1,2,4,5-Tetrachlorobenzene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2,4,5-Trichlorophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2-Chlorophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2,4-Dichlorophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2,4-Dinitrophenol	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
2-Nitrophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
4-Nitrophenol	<0.00194	0.00194	0.00387		mg/L	1	09/23/24 07:14 PM
Phenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2,4,6-Trichlorophenol	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Acenaphthene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Acenaphthylene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Benzo[b]fluoranthene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Benzo[g,h,i]perylene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Benzo[k]fluoranthene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Bis(2-chloroethoxy)methane	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Bis(2-chloroisopropyl)ether	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
4-Bromophenyl phenyl ether	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Butyl benzyl phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
2-Chloronaphthalene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
4-Chlorophenyl phenyl ether	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Dibenz[a,h]anthracene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Diethyl phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
Dimethyl phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
2,4-Dinitrotoluene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
2,6-Dinitrotoluene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Di-n-octyl phthalate	<0.00290	0.00290	0.00581		mg/L	1	09/23/24 07:14 PM
1,2-Diphenylhydrazine	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Fluoranthene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Fluorene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Indeno[1,2,3-cd]pyrene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Isophorone	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Naphthalene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
N-Nitrosodimethylamine	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
N-Nitrosodi-n-propylamine	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
N-Nitrosodiphenylamine	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Pyrene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 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-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775088
Project:	PCS 775088	**Lab ID:**	2409128-01
Project No:		**Collection Date:**	09/17/24 07:00 AM
Lab Order:	2409128	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **JVR**
1,2,4-Trichlorobenzene	<0.000968	0.000968	0.00194		mg/L	1	09/23/24 07:14 PM
Surr: 2,4,6-Tribromophenol	97.8	0	10-123		%REC	1	09/23/24 07:14 PM
Surr: 2-Fluorobiphenyl	83.8	0	43-116		%REC	1	09/23/24 07:14 PM
Surr: 2-Fluorophenol	56.2	0	21-100		%REC	1	09/23/24 07:14 PM
Surr: 4-Terphenyl-d14	88.2	0	33-141		%REC	1	09/23/24 07:14 PM
Surr: Nitrobenzene-d5	91.5	0	35-115		%REC	1	09/23/24 07:14 PM
Surr: Phenol-d5	35.0	0	10-94		%REC	1	09/23/24 07:14 PM
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
4,4'-DDD	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
4,4'-DDE	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
4,4'-DDT	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Aldrin	<0.00000929	0.00000929	0.00000929		mg/L	1	09/24/24 02:14 PM
alpha-BHC (Hexachlorocyclohexane)	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
beta-BHC (Hexachlorocyclohexane)	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Carbaryl	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Chlordane	<0.0000557	0.0000557	0.000186	N	mg/L	1	09/24/24 02:14 PM
Chlorpyrifos	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
delta-BHC (Hexachlorocyclohexane)	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Diazinon	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Dieldrin	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Endosulfan I	<0.00000929	0.00000929	0.00000929		mg/L	1	09/24/24 02:14 PM
Endosulfan II	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Endosulfan sulfate	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Endrin	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Endrin aldehyde	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
gamma-BHC (Lindane)	<0.00000929	0.00000929	0.0000186		mg/L	1	09/24/24 02:14 PM
Guthion (Azinphosmethyl)	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Heptachlor	<0.00000929	0.00000929	0.00000929		mg/L	1	09/24/24 02:14 PM
Heptachlor epoxide	<0.00000929	0.00000929	0.00000929		mg/L	1	09/24/24 02:14 PM
Malathion	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Methoxychlor	<0.0000186	0.0000186	0.0000186	N	mg/L	1	09/24/24 02:14 PM
Mirex	<0.00000929	0.00000929	0.0000186	N	mg/L	1	09/24/24 02:14 PM
Parathion, ethyl	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Toxaphene	<0.000279	0.000279	0.000279		mg/L	1	09/24/24 02:14 PM
Demeton (O & S)	<0.00000929	0.00000929	0.0000279	N	mg/L	1	09/24/24 02:14 PM
Surr: 2-Fluorobiphenyl	60.4	0	43-116		%REC	1	09/24/24 02:14 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-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775088
Project:	PCS 775088	**Lab ID:**	2409128-01
Project No:		**Collection Date:**	09/17/24 07:00 AM
Lab Order:	2409128	**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	71.5	0	33-141		%REC	1	09/24/24 02:14 PM
DICOFOL IN WATER BY ASTM METHOD		**D5812-96MOD**					Analyst: **DEW**
Dicofol	<0.000186	0.000186	0.000372	N	mg/L	1	09/24/24 02:14 PM
NONYLPHENOL IN WATER BY ASTM METHOD		**D7065-17**					Analyst: **JVR**
Nonylphenol	<0.0678	0.0678	0.0968	N	mg/L	1	09/23/24 07:14 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-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775089
Project:	PCS 775088	**Lab ID:**	2409128-02
Project No:		**Collection Date:**	09/17/24 09:45 AM
Lab Order:	2409128	**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	09/18/24 02:48 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Chlorodibromomethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Methylene chloride (DCM)	<0.00250	0.00250	0.00500		mg/L	1	09/18/24 02:48 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,3-Dichloropropene (cis)	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,3-Dichloropropene (trans)	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Methyl ethyl ketone	<0.00500	0.00500	0.0150		mg/L	1	09/18/24 02:48 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/24 02:48 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/18/24 02:48 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	09/18/24 02:48 PM
TTHM (Total Trihalomethanes)	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Acrolein	<0.00500	0.00500	0.0150		mg/L	1	09/18/24 02:48 PM
Chloroethane	<0.00100	0.00100	0.00500		mg/L	1	09/18/24 02:48 PM
2-Chloroethylvinylether	<0.00600	0.00600	0.0100		mg/L	1	09/18/24 02:48 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/24 02:48 PM
Methyl bromide	<0.00100	0.00100	0.00500		mg/L	1	09/18/24 02:48 PM
Methyl chloride	<0.00100	0.00100	0.00500		mg/L	1	09/18/24 02:48 PM
trans-1,2-Dichloroethylene	<0.000300	0.000300	0.00200		mg/L	1	09/18/24 02:48 PM
Surr: 1,2-Dichloroethane-d4	94.3	0	72-119		%REC	1	09/18/24 02:48 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	09/18/24 02:48 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	09/18/24 02:48 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-Sep-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	775089
Project:	PCS 775088	**Lab ID:**	2409128-02
Project No:		**Collection Date:**	09/17/24 09:45 AM
Lab Order:	2409128	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		**E624.1**					Analyst: **JVR**
Surr: Toluene-d8	110	0	81-120		%REC	1	09/18/24 02:48 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Amenable to Chlorination	<0.0100	0.0100	0.0200		mg/L	1	09/26/24 05:31 PM
Cyanide, Total	<0.0100	0.0100	0.0200		mg/L	1	09/26/24 05:31 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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_240925A

The QC data in batch 117292 applies to the following samples: 2409128-01A

Sample ID: **MB-117292**	Batch ID: **117292**	TestNo: **E632**	Units: **mg/L**
SampType: **MBLK**	Run ID: **LCMS2_240925A**	Analysis Date: **9/25/2024 3:18:34 PM**	Prep Date: **9/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	<0.0000300	0.0000800								N
Hexachlorophene	<0.00100	0.00500								N

Sample ID: **LCS-117292**	Batch ID: **117292**	TestNo: **E632**	Units: **mg/L**
SampType: **LCS**	Run ID: **LCMS2_240925A**	Analysis Date: **9/26/2024 3:49:55 PM**	Prep Date: **9/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00135	0.0000800	0.00200	0	67.7	35	145			N
Hexachlorophene	0.00229	0.00500	0.00200	0	114	35	145			N

Sample ID: **LCSD-117292**	Batch ID: **117292**	TestNo: **E632**	Units: **mg/L**
SampType: **LCSD**	Run ID: **LCMS2_240925A**	Analysis Date: **9/26/2024 4:01:11 PM**	Prep Date: **9/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00141	0.0000800	0.00200	0	70.6	35	145	4.19	30	N
Hexachlorophene	0.00227	0.00500	0.00200	0	114	35	145	0.692	30	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240924A

The QC data in batch 117266 applies to the following samples: 2409128-01C

Sample ID: **LCS-117266** Batch ID: **117266** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS10_240924A** Analysis Date: **9/24/2024 10:37:00 AM** Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.000212	0.0000200	0.000400	0	53.0	0.1	135			
4,4'-DDE	0.000202	0.0000200	0.000400	0	50.5	19	120			
4,4'-DDT	0.000201	0.0000200	0.000400	0	50.2	0.1	171			
Aldrin	0.000146	0.0000100	0.000400	0	36.5	7	152			
alpha-BHC (Hexachlorocyclohexane)	0.000286	0.0000200	0.000400	0	71.5	42	108			
beta-BHC (Hexachlorocyclohexane)	0.000302	0.0000200	0.000400	0	75.4	42	131			
Carbaryl	0.000313	0.0000300	0.000400	0	78.2	38	168			N
Chlorpyrifos	0.000313	0.0000300	0.000400	0	78.2	42	131			N
delta-BHC (Hexachlorocyclohexane)	0.000252	0.0000200	0.000400	0	62.9	0.1	120			
Diazinon	0.000368	0.0000300	0.000400	0	92.0	52	120			N
Dieldrin	0.000227	0.0000200	0.000400	0	56.8	44	119			
Endosulfan I	0.000253	0.0000100	0.000400	0	63.2	47	128			
Endosulfan II	0.000231	0.0000200	0.000400	0	57.7	52	125			
Endosulfan sulfate	0.000222	0.0000200	0.000400	0	55.4	0.1	120			
Endrin	0.000239	0.0000200	0.000400	0	59.8	50	151			
Endrin aldehyde	0.00000232	0.0000200	0.000400	0	0.580	0.1	189			
gamma-BHC (Lindane)	0.000270	0.0000200	0.000400	0	67.5	41	111			
Guthion (Azinphosmethyl)	0.000382	0.0000300	0.000400	0	95.4	44	193			N
Heptachlor	0.000209	0.0000100	0.000400	0	52.2	0.1	172			
Heptachlor epoxide	0.000240	0.0000100	0.000400	0	59.9	71	120			S
Malathion	0.000385	0.0000300	0.000400	0	96.3	56	161			N
Methoxychlor	0.000213	0.0000200	0.000400	0	53.4	38	156			N
Mirex	0.000188	0.0000200	0.000400	0	47.1	27	131			N
Parathion, ethyl	0.000305	0.0000300	0.000400	0	76.3	13	184			N
Demeton (O & S)	0.000359	0.0000300	0.000400	0	89.7	28	154			N
Surr: 2-Fluorobiphenyl	2.12		4.000		53.1	43	116			
Surr: 4-Terphenyl-d14	2.41		4.000		60.1	33	141			

Sample ID: **LCSD-117266** Batch ID: **117266** TestNo: **E625.1** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS10_240924A** Analysis Date: **9/24/2024 11:04:00 AM** Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.000235	0.0000200	0.000400	0	58.9	0.1	135	10.5	50	
4,4'-DDE	0.000233	0.0000200	0.000400	0	58.2	19	120	14.2	50	
4,4'-DDT	0.000227	0.0000200	0.000400	0	56.9	0.1	171	12.5	50	
Aldrin	0.000175	0.0000100	0.000400	0	43.8	7	152	18.1	50	
alpha-BHC (Hexachlorocyclohexane)	0.000291	0.0000200	0.000400	0	72.7	42	108	1.78	50	
beta-BHC (Hexachlorocyclohexane)	0.000310	0.0000200	0.000400	0	77.5	42	131	2.71	50	
Carbaryl	0.000328	0.0000300	0.000400	0	82.0	38	168	4.72	50	N
Chlorpyrifos	0.000323	0.0000300	0.000400	0	80.8	42	131	3.18	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240924A

Sample ID: **LCSD-117266**	Batch ID: **117266**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GCMS10_240924A**	Analysis Date: **9/24/2024 11:04:00 AM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
delta-BHC (Hexachlorocyclohexane)	0.000268	0.0000200	0.000400	0	66.9	0.1	120	6.15	50	
Diazinon	0.000355	0.0000300	0.000400	0	88.8	52	120	3.55	50	N
Dieldrin	0.000237	0.0000200	0.000400	0	59.3	44	119	4.27	50	
Endosulfan I	0.000242	0.0000100	0.000400	0	60.6	47	128	4.25	50	
Endosulfan II	0.000238	0.0000200	0.000400	0	59.5	52	125	3.06	50	
Endosulfan sulfate	0.000242	0.0000200	0.000400	0	60.4	0.1	120	8.63	50	
Endrin	0.000259	0.0000200	0.000400	0	64.8	50	151	8.00	50	
Endrin aldehyde	0.00000236	0.0000200	0.000400	0	0.590	0.1	189	1.71	50	
gamma-BHC (Lindane)	0.000271	0.0000200	0.000400	0	67.7	41	111	0.311	50	
Guthion (Azinphosmethyl)	0.000420	0.0000300	0.000400	0	105	44	193	9.64	50	N
Heptachlor	0.000251	0.0000100	0.000400	0	62.8	0.1	172	18.3	50	
Heptachlor epoxide	0.000249	0.0000100	0.000400	0	62.2	71	120	3.80	50	S
Malathion	0.000400	0.0000300	0.000400	0	99.9	56	161	3.69	50	N
Methoxychlor	0.000241	0.0000200	0.000400	0	60.3	38	156	12.3	50	N
Mirex	0.000211	0.0000200	0.000400	0	52.6	27	131	11.1	50	N
Parathion, ethyl	0.000296	0.0000300	0.000400	0	74.1	13	184	2.94	50	N
Demeton (O & S)	0.000376	0.0000300	0.000400	0	94.0	28	154	4.74	50	N
Surr: 2-Fluorobiphenyl	2.15		4.000		53.7	43	116	0	0	
Surr: 4-Terphenyl-d14	2.43		4.000		60.6	33	141	0	0	

Sample ID: **MB-117266**	Batch ID: **117266**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS10_240924A**	Analysis Date: **9/24/2024 1:14:00 PM**	Prep Date: **9/23/2024**

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
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								
gamma-BHC (Lindane)	<0.0000100	0.0000200								

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240924A

Sample ID: **MB-117266**	Batch ID: **117266**	TestNo: **E625.1**		Units:	**mg/L**
SampType: **MBLK**	Run ID: **GCMS10_240924A**	Analysis Date: **9/24/2024 1:14:00 PM**		Prep Date:	**9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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
Demeton (O & S)	<0.0000100	0.0000300								N
Surr: 2-Fluorobiphenyl	2.26		4.000		56.4	43	116			
Surr: 4-Terphenyl-d14	2.58		4.000		64.6	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240924B

The QC data in batch 117266 applies to the following samples: 2409128-01C

Sample ID: **LCS-117266-DICO**	Batch ID: **117266**	TestNo: **D5812-96mod**	Units: **mg/L**				
SampType: **LCS**	Run ID: **GCMS10_240924B**	Analysis Date: **9/24/2024 12:08:00 PM**	Prep Date: **9/23/2024**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	0.000666	0.000400	0.00100	0	66.6	22	180			N

Sample ID: **MB-117266**	Batch ID: **117266**	TestNo: **D5812-96mod**	Units: **mg/L**				
SampType: **MBLK**	Run ID: **GCMS10_240924B**	Analysis Date: **9/24/2024 1:14:00 PM**	Prep Date: **9/23/2024**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	<0.000200	0.000400								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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_240923A

The QC data in batch 117266 applies to the following samples: 2409128-01C

Sample ID: **LCS-117266-PCB** Batch ID: **117266** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS8_240923A** Analysis Date: **9/23/2024 3:58:00 PM** Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00273	0.000200	0.00400	0	68.2	37	130			
Aroclor 1260	0.00365	0.000200	0.00400	0	91.2	19	130			
Total PCBs	0.00638	0.000200	0.00800	0	79.7	19	130			
Surr: 2-Fluorobiphenyl	3.06		4.000		76.4	43	116			
Surr: 4-Terphenyl-d14	3.57		4.000		89.2	33	141			

Sample ID: **MB-117266** Batch ID: **117266** TestNo: **E625.1** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS8_240923A** Analysis Date: **9/23/2024 4:28:00 PM** Prep Date: **9/23/2024**

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	3.21		4.000		80.3	43	116			
Surr: 4-Terphenyl-d14	3.66		4.000		91.5	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

The QC data in batch 117275 applies to the following samples: 2409128-01B

Sample ID: **LCS-117275** Batch ID: **117275** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_240923A** Analysis Date: **9/23/2024 4:12:00 PM** Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0257	0.00400	0.0400	0	64.4	5	125			
Benzo[a]anthracene	0.0362	0.00200	0.0400	0	90.6	33	143			
Benzo[a]pyrene	0.0409	0.00200	0.0400	0	102	17	163			
Chrysene	0.0373	0.00200	0.0400	0	93.3	17	168			
2,4-Dimethylphenol	0.0318	0.00200	0.0400	0	79.6	32	120			
4,6-Dinitro-o-cresol	0.0399	0.00400	0.0400	0	99.7	10	181			
m,p-Cresols	0.0253	0.00400	0.0400	0	63.3	10	125			
o-Cresol	0.0276	0.00400	0.0400	0	68.9	25	125			
p-Chloro-m-Cresol	0.0315	0.00400	0.0400	0	78.7	22	147			
Hexachlorobenzene	0.0334	0.00200	0.0400	0	83.6	10	152			
Hexachlorobutadiene	0.0296	0.00200	0.0400	0	74.0	24	120			
Hexachloroethane	0.0318	0.00200	0.0400	0	79.6	40	120			
Nitrobenzene	0.0360	0.00200	0.0400	0	90.1	35	180			
N-Nitrosodiethylamine	0.0305	0.00400	0.0400	0	76.2	20	125			
N-Nitrosodi-n-butylamine	0.0378	0.00400	0.0400	0	94.4	20	125			
Pentachlorobenzene	0.0332	0.00200	0.0400	0	82.9	40	140			
Pentachlorophenol	0.0316	0.00200	0.0400	0	79.0	14	176			
Phenanthrene	0.0337	0.00200	0.0400	0	84.2	54	120			
Pyridine	0.0154	0.00200	0.0400	0	38.5	10	75			
1,2,4,5-Tetrachlorobenzene	0.0310	0.00200	0.0400	0	77.5	30	140			
2,4,5-Trichlorophenol	0.0369	0.00200	0.0400	0	92.2	25	125			
2-Chlorophenol	0.0284	0.00200	0.0400	0	70.9	23	134			
2,4-Dichlorophenol	0.0323	0.00200	0.0400	0	80.8	39	135			
2,4-Dinitrophenol	0.0322	0.00400	0.0400	0	80.6	10	191			
2-Nitrophenol	0.0353	0.00200	0.0400	0	88.2	29	182			
4-Nitrophenol	0.0285	0.00400	0.0400	0	71.2	10	132			
Phenol	0.0169	0.00200	0.0400	0	42.2	5	120			
2,4,6-Trichlorophenol	0.0361	0.00200	0.0400	0	90.3	37	144			
Acenaphthene	0.0345	0.00200	0.0400	0	86.2	47	145			
Acenaphthylene	0.0334	0.00200	0.0400	0	83.6	33	145			
Anthracene	0.0352	0.00200	0.0400	0	87.9	27	133			
Benzo[b]fluoranthene	0.0414	0.00200	0.0400	0	104	24	159			
Benzo[g,h,i]perylene	0.0419	0.00200	0.0400	0	105	10	219			
Benzo[k]fluoranthene	0.0357	0.00200	0.0400	0	89.4	11	162			
Bis(2-chloroethoxy)methane	0.0342	0.00200	0.0400	0	85.6	33	184			
Bis(2-chloroethyl)ether	0.0365	0.00200	0.0400	0	91.2	12	158			
Bis(2-chloroisopropyl)ether	0.0309	0.00200	0.0400	0	77.2	36	166			
Bis(2-ethylhexyl)phthalate	0.0449	0.00600	0.0400	0	112	10	158			
4-Bromophenyl phenyl ether	0.0353	0.00200	0.0400	0	88.2	53	127			
Butyl benzyl phthalate	0.0416	0.00600	0.0400	0	104	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

Sample ID: **LCS-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 4:12:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chloronaphthalene	0.0349	0.00200	0.0400	0	87.2	60	120			
4-Chlorophenyl phenyl ether	0.0342	0.00200	0.0400	0	85.5	25	158			
Dibenz[a,h]anthracene	0.0413	0.00200	0.0400	0	103	10	125			
3,3'-Dichlorobenzidine	0.0360	0.00500	0.0400	0	90.0	10	262			
Diethyl phthalate	0.0365	0.00600	0.0400	0	91.2	10	120			
Dimethyl phthalate	0.0354	0.00600	0.0400	0	88.4	10	120			
Di-n-butyl phthalate	0.0406	0.00600	0.0400	0	101	10	120			
2,4-Dinitrotoluene	0.0357	0.00200	0.0400	0	89.2	39	139			
2,6-Dinitrotoluene	0.0358	0.00200	0.0400	0	89.5	50	158			
Di-n-octyl phthalate	0.0398	0.00600	0.0400	0	99.4	10	146			
1,2-Diphenylhydrazine	0.0336	0.00200	0.0400	0	84.0	40	140			
Fluoranthene	0.0400	0.00200	0.0400	0	100	26	137			
Fluorene	0.0364	0.00200	0.0400	0	91.0	59	121			
Hexachlorocyclopentadiene	0.0294	0.00200	0.0400	0	73.4	8	130			
Indeno[1,2,3-cd]pyrene	0.0404	0.00200	0.0400	0	101	10	171			
Isophorone	0.0341	0.00200	0.0400	0	85.4	21	196			
Naphthalene	0.0322	0.00200	0.0400	0	80.6	21	133			
N-Nitrosodimethylamine	0.0148	0.00200	0.0400	0	37.1	10	125			
N-Nitrosodi-n-propylamine	0.0360	0.00200	0.0400	0	89.9	10	230			
N-Nitrosodiphenylamine	0.0368	0.00200	0.0400	0	91.9	20	125			
Pyrene	0.0371	0.00200	0.0400	0	92.6	52	120			
1,2,4-Trichlorobenzene	0.0320	0.00200	0.0400	0	80.0	44	142			
Surr: 2,4,6-Tribromophenol	74.0		80.00		92.5	10	123			
Surr: 2-Fluorobiphenyl	64.2		80.00		80.2	43	116			
Surr: 2-Fluorophenol	47.6		80.00		59.5	21	100			
Surr: 4-Terphenyl-d14	66.6		80.00		83.3	33	141			
Surr: Nitrobenzene-d5	69.8		80.00		87.2	35	115			
Surr: Phenol-d5	31.8		80.00		39.8	10	94			

Sample ID: **LCSD-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 4:34:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0269	0.00400	0.0400	0	67.2	5	125	4.26	50	
Benzo[a]anthracene	0.0367	0.00200	0.0400	0	91.8	33	143	1.26	50	
Benzo[a]pyrene	0.0403	0.00200	0.0400	0	101	17	163	1.48	50	
Chrysene	0.0376	0.00200	0.0400	0	93.9	17	168	0.695	50	
2,4-Dimethylphenol	0.0318	0.00200	0.0400	0	79.4	32	120	0.189	50	
4,6-Dinitro-o-cresol	0.0395	0.00400	0.0400	0	98.9	10	181	0.856	50	
m,p-Cresols	0.0251	0.00400	0.0400	0	62.7	10	125	1.03	50	
o-Cresol	0.0268	0.00400	0.0400	0	67.0	25	125	2.80	50	

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

Sample ID: **LCSD-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 4:34:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
p-Chloro-m-Cresol	0.0315	0.00400	0.0400	0	78.7	22	147	0.063	50	
Hexachlorobenzene	0.0328	0.00200	0.0400	0	82.1	10	152	1.75	50	
Hexachlorobutadiene	0.0295	0.00200	0.0400	0	73.9	24	120	0.203	50	
Hexachloroethane	0.0317	0.00200	0.0400	0	79.4	40	120	0.252	50	
Nitrobenzene	0.0362	0.00200	0.0400	0	90.6	35	180	0.554	50	
N-Nitrosodiethylamine	0.0302	0.00400	0.0400	0	75.6	20	125	0.856	50	
N-Nitrosodi-n-butylamine	0.0379	0.00400	0.0400	0	94.7	20	125	0.317	50	
Pentachlorobenzene	0.0328	0.00200	0.0400	0	82.0	40	140	1.03	50	
Pentachlorophenol	0.0320	0.00200	0.0400	0	80.1	14	176	1.38	50	
Phenanthrene	0.0334	0.00200	0.0400	0	83.4	54	120	0.835	39	
Pyridine	0.0167	0.00200	0.0400	0	41.6	10	75	7.86	50	
1,2,4,5-Tetrachlorobenzene	0.0307	0.00200	0.0400	0	76.7	30	140	1.10	50	
2,4,5-Trichlorophenol	0.0364	0.00200	0.0400	0	91.1	25	125	1.20	50	
2-Chlorophenol	0.0257	0.00200	0.0400	0	64.2	23	134	9.84	50	
2,4-Dichlorophenol	0.0320	0.00200	0.0400	0	80.0	39	135	0.995	50	
2,4-Dinitrophenol	0.0317	0.00400	0.0400	0	79.4	10	191	1.56	50	
2-Nitrophenol	0.0347	0.00200	0.0400	0	86.7	29	182	1.72	50	
4-Nitrophenol	0.0280	0.00400	0.0400	0	70.0	10	132	1.70	50	
Phenol	0.0163	0.00200	0.0400	0	40.8	5	120	3.25	50	
2,4,6-Trichlorophenol	0.0357	0.00200	0.0400	0	89.2	37	144	1.23	50	
Acenaphthene	0.0346	0.00200	0.0400	0	86.4	47	145	0.174	48	
Acenaphthylene	0.0335	0.00200	0.0400	0	83.9	33	145	0.358	50	
Anthracene	0.0347	0.00200	0.0400	0	86.6	27	133	1.43	50	
Benzo[b]fluoranthene	0.0378	0.00200	0.0400	0	94.4	24	159	9.24	50	
Benzo[g,h,i]perylene	0.0404	0.00200	0.0400	0	101	10	219	3.60	50	
Benzo[k]fluoranthene	0.0378	0.00200	0.0400	0	94.5	11	162	5.60	50	
Bis(2-chloroethoxy)methane	0.0346	0.00200	0.0400	0	86.4	33	184	0.930	50	
Bis(2-chloroethyl)ether	0.0360	0.00200	0.0400	0	90.1	12	158	1.21	50	
Bis(2-chloroisopropyl)ether	0.0310	0.00200	0.0400	0	77.4	36	166	0.388	50	
Bis(2-ethylhexyl)phthalate	0.0444	0.00600	0.0400	0	111	10	158	1.30	50	
4-Bromophenyl phenyl ether	0.0349	0.00200	0.0400	0	87.3	53	127	0.969	43	
Butyl benzyl phthalate	0.0422	0.00600	0.0400	0	105	10	152	1.48	50	
2-Chloronaphthalene	0.0350	0.00200	0.0400	0	87.4	60	120	0.172	24	
4-Chlorophenyl phenyl ether	0.0339	0.00200	0.0400	0	84.8	25	158	0.822	50	
Dibenz[a,h]anthracene	0.0405	0.00200	0.0400	0	101	10	125	2.05	50	
3,3'-Dichlorobenzidine	0.0363	0.00500	0.0400	0	90.8	10	262	0.830	50	
Diethyl phthalate	0.0361	0.00600	0.0400	0	90.2	10	120	1.21	50	
Dimethyl phthalate	0.0354	0.00600	0.0400	0	88.5	10	120	0.113	50	
Di-n-butyl phthalate	0.0400	0.00600	0.0400	0	100	10	120	1.39	47	
2,4-Dinitrotoluene	0.0355	0.00200	0.0400	0	88.6	39	139	0.675	42	
2,6-Dinitrotoluene	0.0357	0.00200	0.0400	0	89.2	50	158	0.392	48	

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

Sample ID: **LCSD-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 4:34:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	0.0395	0.00600	0.0400	0	98.9	10	146	0.555	50	
1,2-Diphenylhydrazine	0.0333	0.00200	0.0400	0	83.2	40	140	0.957	50	
Fluoranthene	0.0397	0.00200	0.0400	0	99.2	26	137	0.753	50	
Fluorene	0.0360	0.00200	0.0400	0	89.9	59	121	1.16	38	
Hexachlorocyclopentadiene	0.0301	0.00200	0.0400	0	75.4	8	130	2.55	50	
Indeno[1,2,3-cd]pyrene	0.0392	0.00200	0.0400	0	98.0	10	171	2.97	50	
Isophorone	0.0347	0.00200	0.0400	0	86.8	21	196	1.68	50	
Naphthalene	0.0322	0.00200	0.0400	0	80.6	21	133	0	50	
N-Nitrosodimethylamine	0.0145	0.00200	0.0400	0	36.3	10	125	2.32	50	
N-Nitrosodi-n-propylamine	0.0360	0.00200	0.0400	0	90.0	10	230	0.055	50	
N-Nitrosodiphenylamine	0.0361	0.00200	0.0400	0	90.3	20	125	1.81	50	
Pyrene	0.0373	0.00200	0.0400	0	93.3	52	120	0.646	49	
1,2,4-Trichlorobenzene	0.0318	0.00200	0.0400	0	79.6	44	142	0.439	50	
Surr: 2,4,6-Tribromophenol	72.4		80.00		90.5	10	123	0	0	
Surr: 2-Fluorobiphenyl	63.0		80.00		78.8	43	116	0	0	
Surr: 2-Fluorophenol	43.6		80.00		54.5	21	100	0	0	
Surr: 4-Terphenyl-d14	65.8		80.00		82.2	33	141	0	0	
Surr: Nitrobenzene-d5	69.4		80.00		86.8	35	115	0	0	
Surr: Phenol-d5	30.2		80.00		37.8	10	94	0	0	

Sample ID: **MB-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 6:05:00 PM**	Prep Date: **9/23/2024**

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								
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								

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

Sample ID: **MB-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 6:05:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923A

Sample ID: **MB-117275**	Batch ID: **117275**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_240923A**	Analysis Date: **9/23/2024 6:05:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	76.0		80.00		95.0	10	123			
Surr: 2-Fluorobiphenyl	67.6		80.00		84.5	43	116			
Surr: 2-Fluorophenol	47.4		80.00		59.2	21	100			
Surr: 4-Terphenyl-d14	66.6		80.00		83.3	33	141			
Surr: Nitrobenzene-d5	71.8		80.00		89.8	35	115			
Surr: Phenol-d5	30.6		80.00		38.2	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240923B

The QC data in batch 117275 applies to the following samples: 2409128-01B

Sample ID: **LCS-117275-NP**	Batch ID: **117275**	TestNo: **D7065-17**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS9_240923B**	Analysis Date: **9/23/2024 5:20:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nonylphenol	0.898	0.100	1.00	0	89.8	40	140			N

Sample ID: **MB-117275**	Batch ID: **117275**	TestNo: **D7065-17**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_240923B**	Analysis Date: **9/23/2024 6:05:00 PM**	Prep Date: **9/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nonylphenol	<0.0700	0.100								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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240918B

The QC data in batch 117216 applies to the following samples: 2409128-02A

Sample ID: **LCS-117216** Batch ID: **117216** TestNo: **E624.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_240918B** Analysis Date: **9/18/2024 12:30:00 PM** Prep Date: **9/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0262	0.00100	0.0232	0	113	65	135			
Carbon tetrachloride	0.0238	0.00100	0.0232	0	103	70	130			
Chlorobenzene	0.0255	0.00100	0.0232	0	110	35	135			
Chloroform	0.0245	0.00100	0.0232	0	106	70	135			
Chlorodibromomethane	0.0257	0.00100	0.0232	0	111	70	135			
1,2-Dibromoethane	0.0255	0.00100	0.0232	0	110	60	140			
1,2-Dichloroethane	0.0240	0.00100	0.0232	0	103	70	130			
1,1-Dichloroethene	0.0246	0.00100	0.0232	0	106	50	150			
Methyl ethyl ketone	0.141	0.0150	0.116	0	122	60	140			
Tetrachloroethene	0.0259	0.00200	0.0232	0	111	70	130			
Trichloroethene	0.0248	0.00100	0.0232	0	107	65	135			
1,1,1-Trichloroethane	0.0238	0.00100	0.0232	0	102	70	130			
TTHM (Total Trihalomethanes)	0.0997	0.00100	0.0928	0	107	60	140			
Vinyl chloride	0.0264	0.00100	0.0232	0	114	5	195			
Acrolein	0.0570	0.0150	0.0580	0	98.3	60	140			
Acrylonitrile	0.0532	0.00300	0.0464	0	115	60	140			
1,1,2,2-Tetrachloroethane	0.0262	0.00100	0.0232	0	113	60	140			
Bromoform	0.0248	0.00100	0.0232	0	107	65	135			
Chloroethane	0.0228	0.00500	0.0232	0	98.3	40	160			
2-Chloroethylvinylether	0.0264	0.0100	0.0232	0	114	5	225			
Bromodichloromethane	0.0248	0.00100	0.0232	0	107	65	135			
1,1-Dichloroethane	0.0270	0.00100	0.0232	0	117	70	130			
1,2-Dichloropropane	0.0282	0.00100	0.0232	0	122	35	165			
1,3-Dichloropropene (cis)	0.0260	0.00100	0.0232	0	112	25	175			
1,3-Dichloropropene (trans)	0.0246	0.00100	0.0232	0	106	50	150			
Ethylbenzene	0.0248	0.00100	0.0232	0	107	60	140			
Methyl bromide	0.0162	0.00500	0.0232	0	69.7	15	185			
Methyl chloride	0.0317	0.00500	0.0232	0	137	5	205			
Methylene chloride (DCM)	0.0257	0.00500	0.0232	0	111	60	140			
Toluene	0.0252	0.00200	0.0232	0	109	70	130			
trans-1,2-Dichloroethylene	0.0249	0.00200	0.0232	0	108	70	130			
1,1,2-Trichloroethane	0.0254	0.00100	0.0232	0	110	70	130			
1,2-Dichlorobenzene	0.0259	0.00100	0.0232	0	111	65	135			
1,3-Dichlorobenzene	0.0256	0.00100	0.0232	0	110	70	130			
1,4-Dichlorobenzene	0.0254	0.00100	0.0232	0	110	65	135			
Surr: 1,2-Dichloroethane-d4	190		200.0		94.8	72	119			
Surr: 4-Bromofluorobenzene	201		200.0		100	76	119			
Surr: Dibromofluoromethane	197		200.0		98.6	85	115			
Surr: Toluene-d8	210		200.0		105	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240918B

Sample ID: **MB-117216**	Batch ID: **117216**	TestNo: **E624.1**		Units:	**mg/L**
SampType: **MBLK**	Run ID: **GCMS5_240918B**	Analysis Date: **9/18/2024 1:49:00 PM**		Prep Date:	**9/18/2024**

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								
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	193		200.0		96.4	72	119			
Surr: 4-Bromofluorobenzene	209		200.0		104	76	119			
Surr: Dibromofluoromethane	205		200.0		102	85	115			
Surr: Toluene-d8	218		200.0		109	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240918B

Sample ID: **2409117-02AMS**	Batch ID: **117216**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS5_240918B**	Analysis Date: **9/18/2024 7:16:00 PM**	Prep Date: **9/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.541	0.0200	0.464	0	117	37	151			
Carbon tetrachloride	0.492	0.0200	0.464	0	106	70	140			
Chlorobenzene	0.517	0.0200	0.464	0	111	37	160			
Chloroform	0.518	0.0200	0.464	0	112	51	138			
Chlorodibromomethane	0.516	0.0200	0.464	0	111	53	149			
1,2-Dibromoethane	0.508	0.0200	0.464	0	110	40	160			
1,2-Dichloroethane	0.508	0.0200	0.464	0	109	49	155			
1,1-Dichloroethene	0.499	0.0200	0.464	0	108	10	234			
Methyl ethyl ketone	2.78	0.300	2.32	0	120	40	160			
Tetrachloroethene	0.518	0.0400	0.464	0	112	64	148			
Trichloroethene	0.514	0.0200	0.464	0	111	70	157			
1,1,1-Trichloroethane	0.490	0.0200	0.464	0	106	52	162			
TTHM (Total Trihalomethanes)	2.04	0.0200	1.86	0	110	40	160			
Vinyl chloride	0.580	0.0200	0.464	0	125	10	251			
Acrolein	1.39	0.300	1.16	0	119	40	160			
Acrylonitrile	1.11	0.0600	0.928	0	120	40	160			
1,1,2,2-Tetrachloroethane	0.534	0.0200	0.464	0	115	46	157			
Bromoform	0.493	0.0200	0.464	0	106	45	169			
Chloroethane	0.509	0.100	0.464	0	110	14	230			
2-Chloroethylvinylether	0.450	0.200	0.464	0	96.9	5	273			
Bromodichloromethane	0.516	0.0200	0.464	0	111	35	155			
1,1-Dichloroethane	0.563	0.0200	0.464	0	121	59	155			
1,2-Dichloropropane	0.582	0.0200	0.464	0	125	10	210			
1,3-Dichloropropene (cis)	0.514	0.0200	0.464	0	111	10	227			
1,3-Dichloropropene (trans)	0.498	0.0200	0.464	0	107	17	183			
Ethylbenzene	0.499	0.0200	0.464	0	107	37	162			
Methyl bromide	0.320	0.100	0.464	0	68.9	10	242			
Methyl chloride	0.712	0.100	0.464	0	154	5	273			
Methylene chloride (DCM)	0.527	0.100	0.464	0	114	10	221			
Toluene	0.517	0.0400	0.464	0	111	47	150			
trans-1,2-Dichloroethylene	0.506	0.0400	0.464	0	109	54	156			
1,1,2-Trichloroethane	0.525	0.0200	0.464	0	113	52	150			
1,2-Dichlorobenzene	0.520	0.0200	0.464	0	112	18	190			
1,3-Dichlorobenzene	0.509	0.0200	0.464	0	110	59	156			
1,4-Dichlorobenzene	0.502	0.0200	0.464	0	108	18	190			
Surr: 1,2-Dichloroethane-d4	3790		4000		94.8	72	119			
Surr: 4-Bromofluorobenzene	3830		4000		95.7	76	119			
Surr: Dibromofluoromethane	3990		4000		99.6	85	115			
Surr: Toluene-d8	4100		4000		103	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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240918B

Sample ID: **2409117-02AMSD**	Batch ID: **117216**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS5_240918B**	Analysis Date: **9/18/2024 7:42:00 PM**	Prep Date: **9/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.518	0.0200	0.464	0	112	37	151	4.23	40	
Carbon tetrachloride	0.480	0.0200	0.464	0	103	70	140	2.47	40	
Chlorobenzene	0.500	0.0200	0.464	0	108	37	160	3.45	40	
Chloroform	0.486	0.0200	0.464	0	105	51	138	6.30	40	
Chlorodibromomethane	0.490	0.0200	0.464	0	106	53	149	5.17	40	
1,2-Dibromoethane	0.488	0.0200	0.464	0	105	40	160	4.09	40	
1,2-Dichloroethane	0.473	0.0200	0.464	0	102	49	155	7.03	40	
1,1-Dichloroethene	0.478	0.0200	0.464	0	103	10	234	4.26	32	
Methyl ethyl ketone	2.80	0.300	2.32	0	121	40	160	0.444	40	
Tetrachloroethene	0.494	0.0400	0.464	0	106	64	148	4.86	39	
Trichloroethene	0.491	0.0200	0.464	0	106	70	157	4.76	40	
1,1,1-Trichloroethane	0.469	0.0200	0.464	0	101	52	162	4.35	36	
TTHM (Total Trihalomethanes)	1.94	0.0200	1.86	0	105	40	160	5.17	40	
Vinyl chloride	0.530	0.0200	0.464	0	114	10	251	8.93	40	
Acrolein	1.39	0.300	1.16	0	120	40	160	0.395	40	
Acrylonitrile	1.06	0.0600	0.928	0	114	40	160	4.77	40	
1,1,2,2-Tetrachloroethane	0.505	0.0200	0.464	0	109	46	157	5.56	40	
Bromoform	0.473	0.0200	0.464	0	102	45	169	4.01	40	
Chloroethane	0.468	0.100	0.464	0	101	14	230	8.58	40	
2-Chloroethylvinylether	0.472	0.200	0.464	0	102	5	273	4.76	40	
Bromodichloromethane	0.490	0.0200	0.464	0	106	35	155	5.16	40	
1,1-Dichloroethane	0.539	0.0200	0.464	0	116	59	155	4.44	40	
1,2-Dichloropropane	0.549	0.0200	0.464	0	118	10	210	5.90	40	
1,3-Dichloropropene (cis)	0.486	0.0200	0.464	0	105	10	227	5.62	40	
1,3-Dichloropropene (trans)	0.467	0.0200	0.464	0	101	17	183	6.39	40	
Ethylbenzene	0.488	0.0200	0.464	0	105	37	162	2.25	40	
Methyl bromide	0.314	0.100	0.464	0	67.8	10	242	1.61	40	
Methyl chloride	0.646	0.100	0.464	0	139	5	273	9.81	40	
Methylene chloride (DCM)	0.502	0.100	0.464	0	108	10	221	4.89	28	
Toluene	0.495	0.0400	0.464	0	107	47	150	4.26	40	
trans-1,2-Dichloroethylene	0.488	0.0400	0.464	0	105	54	156	3.68	40	
1,1,2-Trichloroethane	0.498	0.0200	0.464	0	107	52	150	5.18	40	
1,2-Dichlorobenzene	0.500	0.0200	0.464	0	108	18	190	3.92	40	
1,3-Dichlorobenzene	0.492	0.0200	0.464	0	106	59	156	3.31	40	
1,4-Dichlorobenzene	0.483	0.0200	0.464	0	104	18	190	3.83	40	
Surr: 1,2-Dichloroethane-d4	3890		4000		97.2	72	119	0	0	
Surr: 4-Bromofluorobenzene	3860		4000		96.6	76	119	0	0	
Surr: Dibromofluoromethane	3930		4000		98.2	85	115	0	0	
Surr: Toluene-d8	4130		4000		103	81	120	0	0	

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: 2409128
Project: PCS 775088

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240926A

The QC data in batch 117340 applies to the following samples: 2409128-02B

Sample ID: **MB-117340**	Batch ID: **117340**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MBLK**	Run ID: **UV/VIS_2_240926A**	Analysis Date: **9/26/2024 5:25:00 PM**	Prep Date: **9/26/2024**

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-117340**	Batch ID: **117340**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **LCS**	Run ID: **UV/VIS_2_240926A**	Analysis Date: **9/26/2024 5:25:00 PM**	Prep Date: **9/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.186	0.0200	0.2000	0	92.8	85	115			

Sample ID: **2409114-04BMS**	Batch ID: **117340**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MS**	Run ID: **UV/VIS_2_240926A**	Analysis Date: **9/26/2024 5:26:00 PM**	Prep Date: **9/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.186	0.0200	0.2000	0	92.9	79	114			

Sample ID: **2409114-04BMSD**	Batch ID: **117340**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MSD**	Run ID: **UV/VIS_2_240926A**	Analysis Date: **9/26/2024 5:27:00 PM**	Prep Date: **9/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.177	0.0200	0.2000	0	88.6	79	114	4.67	20	

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

Pollution Control Services

Sample Log-In Checklist

775088

PCS Sample No(s) 775089 **COC No.** _____

775088

Client/Company Name: S.A.R.A. **Checklist Completed by:** EV

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 7 / 4 °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** ____ ** ✓ H_2SO_4 ____ HNO_3 ____ H_3PO_4
Base Preserved Sample - If present, is pH >12? Yes ✓ No ____ ✓ NaOH
Other Preservation:_____ If Present, Meets Requirements? Yes ____ No____
Sample Preservations Checked by: EV Date 9/17/2024 Time 1037
pH paper used to check sample preservation (PCS log #): 24-131 (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/ RevisionComments
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 ___ Initails: _____
Receiving qualifier entered into LIMS at login Initial/Date: _____
Revision Comments: _____
_____

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

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 Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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: 17 (10 Ceriodaphnia dubia / 7 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			

Salitrillo Wastewater Discharge Permit Renewal 02/2025
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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 87)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 1

Average Daily Flows, in MGD: 0.000253

Significant IUs – non-categorical:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: 4

Average Daily Flows, in MGD: 0.008280 See Attachment 16

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

N/A

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)

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 88)

A. General information

Company Name: Alamo Plating

SIC Code: 3471

Contact name: Jana Wallace

Address: 9230 Converse Business Lane

City, State, and Zip Code: Converse, TX 78109

Telephone number: (210) 658-4024

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).

Electrochemical deposition of metals upon ferrous and nonferrous metal substrates.
– See Attachment 17

C. Product and service information

Provide a description of the principal product(s) or services performed.

Raw Material – Nickel, Copper, Gold, Chrome and Black Nickel. (1000 lbs/yr)

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: 53

Discharge Type: ☐ Continuous ☒ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 200

Discharge Type: ☐ Continuous ☐ Batch ☒ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☒ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☒ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: 413

Subcategories: 10

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Water Balance

This application is for a renewal, Water Balance is not required.

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Design Calculations

This application is for a renewal, Design Calculations are not required.

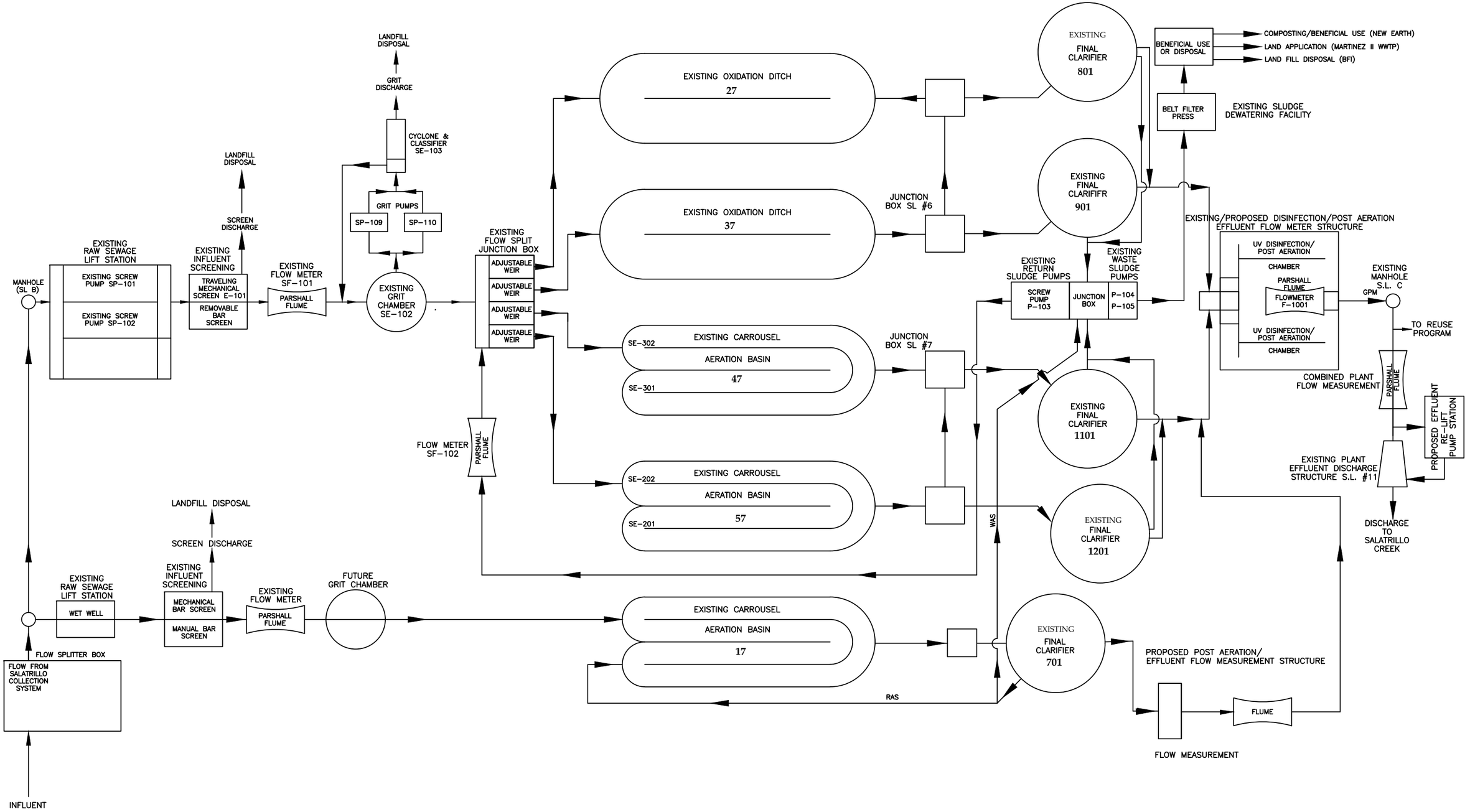
Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 13

Flow Diagram

Reference: Domestic Technical Report 1.0

Section 2 C



NO.	REVISION	DATE	BY

DESIGNED BY: JD
DRAWN BY: WTG
CHECKED BY: JD
APPROVED BY: JD
DATE: 7/12/19 FILE:

SAN ANTONIO RIVER AUTHORITY
Water Brings Us Together

SAN ANTONIO RIVER AUTHORITY
100 E. GUENTHER STREET
P.O. BOX 839980
SAN ANTONIO, TEXAS 78283-9980

VOLUME II - SALITRILLO WWTP

FLOW DIAGRAM FINAL PHASE

Attachment 13

SHEET ___ OF ___

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 11

Treatment Process Description

Reference: Domestic Technical Report 1.0

Section 2 A

Attachment 11

Salitrillo WWTP
Description of Treatment Process

The Salitrillo WWTP is an activated sludge plant with a current permitted flow of 7.33 MGD. The mode of operation is extended aeration. The sewage (Raw) enters the plant at two separate lift stations and flows through two separate trains that include primary treatment and secondary treatment. The effluent from each train mix and flow thru an ultraviolet disinfection unit and leave the plant through one point of discharge.

First Train:
Currently, the Raw enters the plant through a lift station consisting of three centrifugal pumps rated at 2.30 MGD each. Next, the flow is pumped through a mechanical screen into an aeration basin having a volume of 1,400,000 gals with three aerators.

The mixed liquor then flows into a final clarifier that is 90 feet in diameter with a 16.5-foot sidewall depth (volume 785,000 gals), and an additional clarifier of similar size is being planned for the expansion. The settled sludge is returned to the aeration basin by three return activated sludge (RAS) centrifugal pumps rated at 2.0 MGD each.

The waste activated sludge is pumped into an aeration basin in the second train, followed by dewatering and disposal/reuse as is described later in this report.

Second Train:
The sewage enters the plant headworks through two (3) 54" Raw screw pumps rated at 4,889 gpm each. The headworks also include a 42" RAS screw pump rated at 2634 gpm. The raw wastewater then flows through a 2.5-foot-wide mechanical bar screen followed by a 2.5-foot-wide fixed bar screen and a 7.04 MGD capacity grit chamber.

The Raw then mixes with RAS and flows into four aeration basins. Two of the basins are Carrousel Units (volume 920,000 Gal. each) with two aerators in each basin. The other two are oxidation ditches (1,000,000 Gal. each) with two fixed rotors in each basin.

The mixed liquor then flows into four final clarifiers. Each clarifier is 100 feet in diameter with a 14-foot sidewall depth (820,000 Gal. each). The settled sludge from two of these clarifiers is returned to the headworks by three return activated sludge (RAS) centrifugal pumps rated at 2.3 MGD each. The settled sludge from the other two clarifiers is returned to the headworks by one 42" RAS screw pump rated at 3.79 MGD.

Attachment 11

Salitrillo WWTP
Description of Treatment Process
(Continued)

The effluent then flows through the Ultraviolet Disinfection System (rated at 18.33 MGD) followed by a post aeration basin consisting of two 7.5 horsepower blowers before being discharged. An effluent re-lift pump station is located after post aeration for use during high flows. The waste activated sludge is pumped to a 2.5-meter belt filter press where it is dewatered followed by either further treatment/reuse or disposal.

The dewatered sludge is disposed of in one of two ways:

1. Hauled to Martinez II WWTP to be composted and/or heat dried, biosolids will be marketed and distributed back into the wholesale/retail landscaping market. The San Antonio River Authority owns both WWTPs.

2. Hauled to BFI Tessman Road Municipal Sold Waste Landfill for final disposal.

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 12

Type and Dimension of Each Treatment Unit

Reference: Domestic Technical Report 1.0

Section 2 B

Attachment 12

Salitrillo WWTP
Type and Dimensions of Treatment Units

The Salitrillo WWTP is divided between the "Upper" and "Lower" systems, and both flows are combined and discharged to Salitrillo Creek.

Upper Salitrillo WWTP:

Headworks:

Three (3) 2.30 MGD Centrifugal Pumps
One (1) ¼" Spacing Mechanical Bar Screen
One (1) 1" Spacing Fixed Bar Screen

Aeration Chamber Dimensions:

Chamber 1: 92'6" x 206'

Clarifiers:

Clarifier 1: 90' Diameter, 13' Side Water Depth

RAS/WAS

Three (3) 2.0 MGD Centrifugal Pumps

Post Aeration Basin:
One (1) Basin: 22' long x 10' wide x 10' deep

Flow Measurement:
Flow is measured through a 90-degree V-Notch Weir

Lower Salitrillo WWTP:

Headworks:
Three (3) 54" Diameter, 7.04 MGD Screw Pumps (each)
One (1) 42" Diameter, 3.79 MGD Return Activated Sludge Pump
One (1) ¼" Spacing Mechanical Screen
One (1) 1" Spacing Fixed Bar Screen
Grit Chamber (12' Diameter X 5.5' Deep)

Attachment 12

Salitrillo WWTP
Type and Dimensions of Treatment Units

Aeration Chamber Dimensions:
Two (2) Carrousel Aeration Basins: 174' x 80' x 10' Deep 920,000-gal capacity (each)
Two (2) Oxidation Ditches: 485' x 55' x 5' Deep 1,000,000-gal capacity (each)

Clarifiers:
Four (4) Clarifiers: 100' Diameter, 14'Side Water Depth (each)
800,000-gal capacity (each)

RAS/WAS

Three (3) 2.0 MGD Centrifugal Pumps

Post Aeration Basin:
One (1) Basin: 10' long x 15.75' wide x 8' deep

UV Disinfection:
Two (2) Channel: 31.85' long x 3.25' wide x 5.75' deep

Inclined Lamp System to treat 17.33 MGD Peak Flow

Flow Measurement:
44" Parshall Flume to measure combined Upper and Lower Plant Flows (used for TCEQ reporting)

Power Generators:
Caterpillar, Model 3516C, 2750 KW Capacity

Caterpillar, Model 3412, 550 KW Capacity

Sludge Dewatering:
2.5 Meter Belt Press

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 15

Pollutant Analysis 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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 1 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
CBOD5	<3	mg/L	3	09/17/2024 14:56	SM 5210 B	PML
Chloride_IC	208	mg/L	2	09/18/2024 05:57	EPA 300.0	JAS
Conductivity, Specific	1,093	µmhos/cm at 25° C	1	09/19/2024 08:20	SM 2510B	LCC
Nitrate-N_IC	5.3	mg/L	0.2	09/18/2024 05:57	EPA 300.0	JAS
Phosphorus, Total	3.23	mg/L	0.10	09/20/2024 04:40	SM 4500-P/B/E	JAS
Sulfate_IC	75	mg/L	2	09/18/2024 05:57	EPA 300.0	JAS
Total Dissolved Solids	656	mg/L	10	09/18/2024 12:50	SM 2540C	CLH/BMR
Total Suspended Solids	<1	mg/L	1	09/17/2024 16:45	SM 2540 D	LCC

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
CBOD5	<1	23	N/A	N/A	N/A	N/A	185	167 - 228	
Chloride_IC	1	10	95	99	98	102	100	85 - 115	
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N_IC	1	20	70	102	101	130	100	85 - 115	
Phosphorus, Total	2	10	91	101	99	103	99	85 - 115	
Sulfate_IC	1	10	94	99	98	101	108	85 - 115	
Total Dissolved Solids	3.558	10	N/A	N/A	N/A	N/A			
Total Suspended Solids	5	10	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.

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

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Ammonia-N (ISE)	0.9	mg/L	0.1	09/19/2024 12:20	SM 4500-NH3 D	BMR
Fluoride_IC	0.36	mg/L	0.20	09/18/2024 05:57	EPA 300.0	JAS
Kjeldahl-N, Total	5	mg/L	1	09/23/2024 10:05	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	186	mg/L	10	09/20/2024 07:10	SM 2320 B	LCC
Arsenic/ICP MS	0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Barium/ICP (Total)	0.079	mg/L	0.010	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.001	mg/L	0.001	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Chromium/ICP (Total)	<0.003	mg/L	0.003	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Ammonia-N (ISE)	1	10	80	100	99	120	88	85 - 115	
Fluoride_IC	1	10	87	99	98	105	102	85 - 115	
Kjeldahl-N, Total	1	10	90	99	100	109	106	85 - 115	<1
Alkalinity, Total (@pH 4.5)	1	10	95	98	99	107	98	85 - 115	
Arsenic/ICP MS	3	20	70	105	102	130	99	85 - 115	
Barium/ICP (Total)	<1	20	75	93	93	125	100	85 - 115	
Cadmium/ICP (Total)	2	20	75	100	98	125	100	85 - 115	
Chromium/ICP (Total)	1	20	75	95	94	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

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088** **Page 3 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Copper/ICP (Total)		0.005	mg/L	0.002	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Lead/ICP MS		<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Aluminum/ICP (Total)		0.011	mg/L	0.010	09/19/2024 15:30	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)		<0.0005	mg/L	0.0005	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Trivalent Chromium		<0.003	mg/L	N/A	09/19/2024 14:00	Calculation	DJL
Hexavalent Chrome	R	<0.003	mg/L	0.003	09/17/2024 16:05	SM 3500-Cr B	DJL
Nickel/ICP (Total)		0.003	mg/L	0.002	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL
Zinc/ICP (Total)		0.025	mg/L	0.005	09/19/2024 14:00	EPA 200.7 / 6010 B	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Copper/ICP (Total)	<1	20	75	100	100	125	105	85 - 115	
Lead/ICP MS	3	20	70	111	108	130	106	85 - 115	
Aluminum/ICP (Total)	10	20	75	109	99	125	95	85 - 115	
Beryllium/ICP (Total)	1	20	75	99	98	125	100	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	2	20	75	*72	*74	125	101	85 - 115	
Nickel/ICP (Total)	2	20	75	93	91	125	100	85 - 115	
Zinc/ICP (Total)	1	20	75	97	96	125	105	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.*

*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

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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 4 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Antimony/ICP MS	<0.005	mg/L	0.005	09/26/2024 09:27	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	09/26/2024 09:27	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	09/26/2024 09:27	EPA 200.8	DJL
Pesticides 617	See Attached				DHL	
604.1 Hexachlorophene	See Attached				DHL	
Semi Volatiles 625	See Attached				DHL	
Pesticides 608	See Attached				DHL	

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Antimony/ICP MS	4	20	70	107	103	130	100	85 - 115	
Thallium/ICP MS	2	20	70	106	104	130	100	85 - 115	
Selenium/ICP MS	1	20	70	106	104	130	103	85 - 115	
Silver/ICP MS	4	20	70	98	94	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								
Pesticides 608	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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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:** Salatillo Major Permit Renewal **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 9/17/2024 07:00**	**PCS Sample #: 775088 Page 5 of 5** **Date/Time Received: 9/17/2024 10:33** **Report Date: 10/1/2024**

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

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
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.

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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:** Salatillo Major Permit Renewal **Sample ID:** Effluent **Matrix:** Non-Potable Water **Date/Time Taken:** 9/17/2024 09:45	**PCS Sample #:** 775089 **Page 1 of 1** **Date/Time Received:** 9/17/2024 10:33 **Report Date:** 10/4/2024 **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	09/23/2024 09:00	EPA 1664 Rev	EMV
Mercury/CVAFS		<0.000005	mg/L	0.000005	10/04/2024 09:39	EPA 245.7	DJL
Phenols, Distillable			See Attached			SPL	
Cyanide, Amenable	+		See Attached			DHL	
Volatiles 624			See Attached			DHL	

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Oil and Grease (H.E.M.)	2	18	N/A	N/A	N/A	N/A	96	78 - 114	
Mercury/CVAFS	7	20	70	106	98	130	112	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.
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RL = Reporting Limits

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POLLUTION CONTROL SERVICES

Chain of Custody Number: 775088

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION

Name: San Antonio River Authority

REPORT INFORMATION

Attention: Russell Neal | Phone: (210) 844-0201 | Fax: (210) 661-9324

SAMPLE INFORMATION

Project Information:
Salatrillo - TCEQ Major Permit Renewal
Report "Soils" ☐ As Is ☐ Dry Wt.

Collected By: Ernest Muñoz

Client / Field Sample ID	Collected Date	Collected Time	Field Chlorine Residual mg/L	Composite or Grab	Matrix (DW-Drinking Water; NPW-Non-potable water; WW-Wastewater; LW-Liquid Waste)	Container Type	Container Number	Preservative	Requested Analysis: CBOD, TSS, TDS, SO4, Cl, SpCond, HexCr, TriCr, NO3N, Talk, F-	Requested Analysis: NH3N, TKN, TPO4P, Metals*	Requested Analysis: 604.1 Hex, Herb 615, Pest 1657, 608, 617, 632, SVOC 625	Requested Analysis: FOG (HEM)	Requested Analysis: VOC 624	Requested Analysis: CN-A	Requested Analysis: Phenol (Dist)	Requested Analysis: Low Level Hg	Instructions/Comments: *Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, Sb MS, As MS, Pb MS, Se MS, Ag MS, Tl MS	PCS Sample Number
Effluent	Start: 9-16-24	Start: 9:00 AM		☒C ☐G	☐DW ☒NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☑P ☑G ☐O	10	☑H_2SO_4 ☑HNO_3 ☐H_3PO_4 ☐NaOH ☑ICE ☐	X	X	X							775088
	End: 9-17-24	End: 7:00 AM																☒S ☐B ☒N ☐HEM Other:
Effluent	Start: 9-17-24	Start:		☐C ☒G	☐DW ☒NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O	10	☑H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☑NaOH ☐ICE ☐				X	X	X	X	X		775089
	End: ~~7:15 AM~~	End: 9:45 AM																☐S ☐B ☐N ☒HEM Other: NaOH
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:
	Start:	Start:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐										
	End:	End:																☐S ☐B ☐N ☐HEM Other:

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:	Ernest Muñoz	Date: 9-17-24	Time: 10:35 am	Received By:		Date: 9/17/24	Time: 10:33		
Relinquished By:		Date:	Time:	Received By:		Date:	Time:		

Rev. Multiple Sample COC_20180628

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Login at www.pcslab.net

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo 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: AA07543 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48733
Sample Matrix: Non Potable Water

Collection Date/Time: 09/01/2024 07:15
Receipt Date/Time: 09/01/2024 10:41

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: 9/4/2024 10:30:35

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48733-A	E. coli									
	SM 9223B-2016	√	4	MPN/100 mL		1	80610	9/1/24	13:05	JS/GMM
AB48733-A	E. Coli Holding Time - IDEXX Colilert									
			5.83	hours		0.00	80609	9/1/24	13:05	JS/GMM

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: 9/4/2024 10:30:35

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80610

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.2246			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/4/2024
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: 9/4/2024 10:30:35

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
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San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07756 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48736
Sample Matrix: Non Potable Water

Collection Date/Time: 09/02/2024 08:30
Receipt Date/Time: 09/02/2024 10:48

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: 9/4/2024 16:01:22

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600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48736-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80612	9/2/24	13:34	GMM/MSR
AB48736-A	E. Coli Holding Time - IDEXX Colilert									
			5.07	hours		0.00	80611	9/2/24	13:34	GMM/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: 9/4/2024 16:01:22

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80612

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/4/2024
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: 9/4/2024 16:01:22

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
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San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07573 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48749
Sample Matrix: Non Potable Water

Collection Date/Time: 09/03/2024 08:00
Receipt Date/Time: 09/03/2024 13:38

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: 9/4/2024 16:04:26

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48749-A	E. coli									
	SM 9223B-2016	√	22	MPN/100 mL		1	80614	9/3/24	15:35	DAZ/DM
AB48749-A	E. Coli Holding Time - IDEXX Colilert									
			7.58	hours		0.00	80613	9/3/24	15:35	DAZ/DM

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: 9/4/2024 16:04:26

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80614

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0824			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/4/2024
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: 9/4/2024 16:04:26

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
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Fax #:210-661-9324

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Sample Location: AA07592 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48778
Sample Matrix: Non Potable Water

Collection Date/Time: 09/04/2024 08:30
Receipt Date/Time: 09/04/2024 13:15

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: 9/9/2024 13:08.45

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48778-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80645	9/4/24	16:26	AC
AB48778-A	E. Coli Holding Time - IDEXX Colilert									
			7.93	hours		0.00	80644	9/4/24	16:26	AC

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: 9/9/2024 13:08.45

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80645

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/9/2024
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: 9/9/2024 13:08.45

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo 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: AA07610 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48799
Sample Matrix: Non Potable Water

Collection Date/Time: 09/05/2024 08:10
Receipt Date/Time: 09/05/2024 13:45

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: **AB48799-A** E. coli
Utility sample greater than 50 MPN/100mL.

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: 9/9/2024 13:11.05

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48799-A	E. coli									
	SM 9223B-2016	√	330	MPN/100 mL	*A	1	80655	9/5/24	15:41	AG/DM
AB48799-A	E. Coli Holding Time - IDEXX Colilert									
			7.52	hours		0.00	80654	9/5/24	15:41	AG/DM

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: 9/9/2024 13:11.05

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80655

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---



Jeanette Hernandez
Senior Quality Assurance Specialist

9/9/2024
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: 9/9/2024 13:11.05

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07630 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48808
Sample Matrix: Non Potable Water

Collection Date/Time: 09/06/2024 08:19
Receipt Date/Time: 09/06/2024 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: 9/9/2024 13:14.10

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48808-A	E. coli									
	SM 9223B-2016	√	2	MPN/100 mL		1	80665	9/6/24	14:15	AG/DM
AB48808-A	E. Coli Holding Time - IDEXX Colilert									
			5.93	hours		0.00	80664	9/6/24	14:15	AG/DM

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: 9/9/2024 13:14.10

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80665

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.3010			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/9/2024
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: 9/9/2024 13:14.10

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07645 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48817
Sample Matrix: Non Potable Water

Collection Date/Time: 09/07/2024 07:08
Receipt Date/Time: 09/07/2024 11:08

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: 9/9/2024 13:16.30

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48817-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80670	9/7/24	12:55	DM/MEV
AB48817-A	E. Coli Holding Time - IDEXX Colilert									
			5.78	hours		0.00	80669	9/7/24	12:55	DM/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: 9/9/2024 13:16.30

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80670

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/9/2024
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: 9/9/2024 13:16.30

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07658 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48820
Sample Matrix: Non Potable Water

Collection Date/Time: 09/08/2024 07:45
Receipt Date/Time: 09/08/2024 10:15

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: 9/10/2024 14:20.50

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48820-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80672	9/8/24	11:44	MEV
AB48820-A	E. Coli Holding Time - IDEXX Colilert									
			3.98	hours		0.00	80671	9/8/24	11:44	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: 9/10/2024 14:20.50

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600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80672

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/10/2024
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: 9/10/2024 14:20.50

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07672 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48834
Sample Matrix: Non Potable Water

Collection Date/Time: 09/09/2024 08:30
Receipt Date/Time: 09/09/2024 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: 9/16/2024 16:38.41

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48834-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80677	9/9/24	15:34	JS
AB48834-A	E. Coli Holding Time - IDEXX Colilert									
			7.07	hours		0.00	80676	9/9/24	15:34	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

The data in this report is current as of: 9/16/2024 16:38.41

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80677

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/16/2024
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: 9/16/2024 16:38.41

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07685 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48843
Sample Matrix: Non Potable Water

Collection Date/Time: 09/10/2024 08:30
Receipt Date/Time: 09/10/2024 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: 9/20/2024 16:46.58

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48843-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80683	9/10/24	16:18	AG/DAZ
AB48843-A	E. Coli Holding Time - IDEXX Colilert									
			7.80	hours		0.00	80682	9/10/24	16:18	AG/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: 9/20/2024 16:46.58

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80683

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 16:46.58

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07705 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48860
Sample Matrix: Non Potable Water

Collection Date/Time: 09/11/2024 08:30
Receipt Date/Time: 09/11/2024 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: 9/19/2024 15:09:55

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48860-A	E. coli									
	SM 9223B-2016	√	18	MPN/100 mL		1	80690	9/11/24	15:37	AG/AM
AB48860-A	E. Coli Holding Time - IDEXX Colilert									
			7.12	hours		0.00	80689	9/11/24	15:37	AG/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

The data in this report is current as of: 9/19/2024 15:09:55

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80690

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0753			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/19/2024
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: 9/19/2024 15:09:55

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600 E. Euclid
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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07720 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48881
Sample Matrix: Non Potable Water

Collection Date/Time: 09/12/2024 11:15
Receipt Date/Time: 09/12/2024 13:11

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 .

Sample Comments: A time gap exists between a time of relinquish and a time of receipt. This occurred during sample transport to the laboratory.

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: 9/20/2024 16:50.00

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48881-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80700	9/12/24	15:42	AM/AG/MSR
AB48881-A	E. Coli Holding Time - IDEXX Colilert									
			4.45	hours		0.00	80699	9/12/24	15:42	AM/AG/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: 9/20/2024 16:50.00

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80700

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 16:50.00

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07739 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48894
Sample Matrix: Non Potable Water

Collection Date/Time: 09/13/2024 10:10
Receipt Date/Time: 09/13/2024 13:29

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: 9/20/2024 16:51.32

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48894-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80708	9/13/24	15:52	MSR/GMM
AB48894-A	E. Coli Holding Time - IDEXX Colilert									
			5.70	hours		0.00	80707	9/13/24	15:52	MSR/GMM

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: 9/20/2024 16:51.32

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80708

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 16:51.32

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07751 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48902
Sample Matrix: Non Potable Water

Collection Date/Time: 09/14/2024 07:10
Receipt Date/Time: 09/14/2024 09:43

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: 9/20/2024 16:56.07

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48902-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80711	9/14/24	13:34	GMM/MSR
AB48902-A	E. Coli Holding Time - IDEXX Colilert									
			6.40	hours		0.00	80710	9/14/24	13:34	GMM/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: 9/20/2024 16:56.07

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600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80711

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 16:56.07

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07763 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48905
Sample Matrix: Non Potable Water

Collection Date/Time: 09/15/2024 08:15
Receipt Date/Time: 09/15/2024 10:04

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: 9/20/2024 16:58.24

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600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48905-A	E. coli									
	SM 9223B-2016	√	3	MPN/100 mL		1	80713	9/15/24	11:42	MSR/MEV
AB48905-A	E. Coli Holding Time - IDEXX Colilert									
			3.45	hours		0.00	80712	9/15/24	11:42	MSR/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: 9/20/2024 16:58.24

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80713

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.1903			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 16:58.24

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07777 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48909
Sample Matrix: Non Potable Water

Collection Date/Time: 09/16/2024 08:20
Receipt Date/Time: 09/16/2024 14:20

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: 9/20/2024 17:00.41

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ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48909-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80729	9/16/24	15:36	GMM/JS
AB48909-A	E. Coli Holding Time - IDEXX Colilert									
			7.27	hours		0.00	80728	9/16/24	15:36	GMM/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

The data in this report is current as of: 9/20/2024 17:00.41

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80729

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/20/2024
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: 9/20/2024 17:00.41

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07791 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48919
Sample Matrix: Non Potable Water

Collection Date/Time: 09/17/2024 08:30
Receipt Date/Time: 09/17/2024 13:37

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: 9/19/2024 15:13:46

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ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48919-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80733	9/17/24	15:27	JS/DM
AB48919-A	E. Coli Holding Time - IDEXX Colilert									
			6.95	hours		0.00	80732	9/17/24	15:27	JS/DM

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: 9/19/2024 15:13:46

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80733

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/19/2024
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: 9/19/2024 15:13:46

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07807 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48947
Sample Matrix: Non Potable Water

Collection Date/Time: 09/18/2024 08:35
Receipt Date/Time: 09/18/2024 13:30

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
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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: 9/26/2024 13:23:15

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48947-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80744	9/18/24	15:43	AG/DM/DAZ
AB48947-A	E. Coli Holding Time - IDEXX Colilert									
			7.13	hours		0.00	80743	9/18/24	15:43	AG/DM/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: 9/26/2024 13:23:15

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80744

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---



Nicholas Johnson
Quality Assurance Specialist I

9/26/2024
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: 9/26/2024 13:23:15

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07827 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48958
Sample Matrix: Non Potable Water

Collection Date/Time: 09/19/2024 08:30
Receipt Date/Time: 09/19/2024 13:19

CASE NARRATIVE

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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: 9/26/2024 10:10:14

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48958-A	E. coli									
	SM 9223B-2016	√	2	MPN/100 mL		1	80761	9/19/24	14:53	GMM/AM
AB48958-A	E. Coli Holding Time - IDEXX Colilert									
			6.38	hours		0.00	80760	9/19/24	14:53	GMM/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

The data in this report is current as of: 9/26/2024 10:10:14

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80761

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.3010			0.0	---	0.5



Nicholas Johnson
Quality Assurance Specialist I

9/26/2024
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: 9/26/2024 10:10:14

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07842 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48972
Sample Matrix: Non Potable Water

Collection Date/Time: 09/20/2024 08:30
Receipt Date/Time: 09/20/2024 13:34

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: 9/24/2024 15:37.03

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48972-A	E. coli									
	SM 9223B-2016	√	2	MPN/100 mL		1	80773	9/20/24	14:58	DAZ/AM
AB48972-A	E. Coli Holding Time - IDEXX Colilert									
			6.47	hours		0.00	80772	9/20/24	14:58	DAZ/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

The data in this report is current as of: 9/24/2024 15:37.03

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600 E. Euclid
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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.3010			0.0	---	0.5

Jeanette Hernandez
Senior Quality Assurance Specialist

9/24/2024
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: 9/24/2024 15:37.03

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07853 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48981
Sample Matrix: Non Potable Water

Collection Date/Time: 09/21/2024 09:05
Receipt Date/Time: 09/21/2024 10:35

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: 9/30/2024 15:51.25

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48981-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80775	9/21/24	14:19	AG/AM
AB48981-A	E. Coli Holding Time - IDEXX Colilert									
			5.23	hours		0.00	80774	9/21/24	14:19	AG/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

The data in this report is current as of: 9/30/2024 15:51.25

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600 E. Euclid
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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5



Jeanette Hernandez
Senior Quality Assurance Specialist

9/30/2024
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: 9/30/2024 15:51.25

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo 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: AA07866 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48984
Sample Matrix: Non Potable Water

Collection Date/Time: 09/22/2024 07:45
Receipt Date/Time: 09/22/2024 09:58

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: 9/30/2024 15:53.43

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48984-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80777	9/22/24	14:07	AG/DM
AB48984-A	E. Coli Holding Time - IDEXX Colilert									
			6.37	hours		0.00	80776	9/22/24	14:07	AG/DM

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: 9/30/2024 15:53.43

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5



Jeanette Hernandez
Senior Quality Assurance Specialist

9/30/2024
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: 9/30/2024 15:53.43

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07880 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB48988
Sample Matrix: Non Potable Water

Collection Date/Time: 09/23/2024 08:25
Receipt Date/Time: 09/23/2024 13:03

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: 9/30/2024 15:56.00

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB48988-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80779	9/23/24	14:58	DM/AG/AC
AB48988-A	E. Coli Holding Time - IDEXX Colilert									
			6.55	hours		0.00	80778	9/23/24	14:58	DM/AG/AC

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: 9/30/2024 15:56.00

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Senior Quality Assurance Specialist

9/30/2024
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: 9/30/2024 15:56.00

SAN ANTONIO RIVER AUTHORITY
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07894 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49011
Sample Matrix: Non Potable Water

Collection Date/Time: 09/24/2024 08:25
Receipt Date/Time: 09/24/2024 13:09

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: 9/30/2024 15:59.49

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49011-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80787	9/24/24	14:49	AC
AB49011-A	E. Coli Holding Time - IDEXX Colilert									
			6.40	hours		0.00	80786	9/24/24	14:49	AC

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: 9/30/2024 15:59.49

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80787

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Senior Quality Assurance Specialist

9/30/2024
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: 9/30/2024 15:59.49

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07913 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49030
Sample Matrix: Non Potable Water

Collection Date/Time: 09/25/2024 08:30
Receipt Date/Time: 09/25/2024 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: 10/4/2024 13:16:20

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49030-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80828	9/25/24	15:45	AC/JS
AB49030-A	E. Coli Holding Time - IDEXX Colilert									
			7.25	hours		0.00	80827	9/25/24	15:45	AC/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

The data in this report is current as of: 10/4/2024 13:16:20

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80828

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

10/4/2024
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: 10/4/2024 13:16:20

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
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San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07929 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49058
Sample Matrix: Non Potable Water

Collection Date/Time: 09/26/2024 09:10
Receipt Date/Time: 09/26/2024 13:29

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: 10/4/2024 13:19:25

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49058-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80843	9/26/24	15:30	JS/GMM
AB49058-A	E. Coli Holding Time - IDEXX Colilert									
			6.33	hours		0.00	80842	9/26/24	15:30	JS/GMM

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: 10/4/2024 13:19:25

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80843

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

10/4/2024
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: 10/4/2024 13:19:25

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07947 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49075
Sample Matrix: Non Potable Water

Collection Date/Time: 09/27/2024 09:15
Receipt Date/Time: 09/27/2024 13:23

QC Analysis Comments: **E_COLI_QUANTITRAY-80854** **Log Range for E. coli**
Log range specifications not applicable to sample results less than or equal to 10 MPN/100 mL.

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: 10/4/2024 13:22:30

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49075-A	E. coli									
	SM 9223B-2016	√	4	MPN/100 mL		1	80854	9/27/24	15:16	GMM/DAZ
AB49075-A	E. Coli Holding Time - IDEXX Colilert									
			6.02	hours		0.00	80853	9/27/24	15:16	GMM/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: 10/4/2024 13:22:30

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80854

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.8751		*A	0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

10/4/2024
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: 10/4/2024 13:22:30

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07960 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49085
Sample Matrix: Non Potable Water

Collection Date/Time: 09/28/2024 07:40
Receipt Date/Time: 09/28/2024 10:41

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: 10/4/2024 13:26:19

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49085-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80858	9/28/24	14:44	DAZ/JS
AB49085-A	E. Coli Holding Time - IDEXX Colilert									
			7.07	hours		0.00	80857	9/28/24	14:44	DAZ/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

The data in this report is current as of: 10/4/2024 13:26:19

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80858

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

10/4/2024
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: 10/4/2024 13:26:19

SAN ANTONIO RIVER AUTHORITY
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
1280 S. FM 1516
San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07972 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49089
Sample Matrix: Non Potable Water

Collection Date/Time: 09/29/2024 07:30
Receipt Date/Time: 09/29/2024 11:03

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: 10/4/2024 13:29:22

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49089-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80860	9/29/24	13:05	JS/AC
AB49089-A	E. Coli Holding Time - IDEXX Colilert									
			5.58	hours		0.00	80859	9/29/24	13:05	JS/AC

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: 10/4/2024 13:29:22

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80860

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

10/4/2024
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: 10/4/2024 13:29:22

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ANALYTICAL REPORT

Customer: SARA - Salitrillo WWTP
Daniel Flores
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San Antonio, TX 78263
Fax #:210-661-9324

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Sample Location: AA07987 Salitrillo Effluent 1522-01 E. coli MPN
Sample Number: AB49096
Sample Matrix: Non Potable Water

Collection Date/Time: 09/30/2024 08:25
Receipt Date/Time: 09/30/2024 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: 10/8/2024 16:54.29

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49096-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80862	9/30/24	14:42	DM/AC
AB49096-A	E. Coli Holding Time - IDEXX Colilert									
			6.28	hours		0.00	80861	9/30/24	14:42	DM/AC

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: 10/8/2024 16:54.29

SAN ANTONIO RIVER AUTHORITY
600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80862

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---



Jeanette Hernandez
Senior Quality Assurance Specialist

10/8/2024
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: 10/8/2024 16:54.29

SALITRILLO WWTP

Sep-24	METERED EFF. FLOW M.G.D.	RAW						EFFLUENT							TEST TIME		INT
		D.O.	TEMP	pH	NH3	$CBOD_5$	TSS	D.O.	TEMP	pH	Turbidity	NH3	$CBOD_5$	TSS	pH	D.O.	
1	4,242,807										1.10						DE
2	4,717,373							6.98	29.5	8.2	1.18				8:33 AM	8:15 AM	JM
3	7,733,417	4.48	28.9	7.8				6.10	29.0	7.7	1.49				7:01 AM	8:26 AM	DE
4	5,658,986	4.23	29.0	7.7				6.54	28.5	7.7	1.28				7:01 AM	8:20 AM	DE
5	5,147,196	3.93	29.0	7.6				6.34	28.3	7.5	1.24				7:32 AM	7:21 AM	AZ
6	4,752,632	3.74	28.6	7.8				6.38	28.3	7.6	1.01				6:52 AM	7:16 AM	AZ
7	4,666,208										0.96						AZ
8	4,721,753										1.05						AZ
9	4,830,760	2.27	28.6	7.6				7.03	27.3	7.6	1.18				7:27 AM	7:20 AM	DE
10	4,744,613	2.63	28.8	7.7				6.97	26.7	7.6	1.01				7:01 AM		DE
11	4,392,932	3.11	29.0	7.6				6.98	27.6	7.4	1.03				7:43 AM	7:40 AM	DE
12	4,335,532	2.71	29.1	7.6				6.83	28.1	7.7	1.00				7:01 AM		DE
13	3,694,161	2.61	24.0	7.8				6.90	28.4	7.4	0.08				7:30 AM	7:27 AM	DE
14	4,282,307										1.02						DE
15	4,791,878										1.66						JM
16	4,927,399	3.46	29.2	7.7				6.60	29.3	7.5	1.42				8:06 AM	7:12 AM	DE
17	4,764,972	1.91	29.3	7.6				6.40	29.2	7.7	1.30				7:25 AM	7:32 AM	DE
18	3,762,010	2.88	29.3	7.8				6.98	29.2	7.6	1.32				7:49 AM		DE
19	4,236,513	2.44	29.4	7.8				6.68	29.3	7.6	1.25				7:31 AM	7:58 AM	DE
20	4,540,643	1.27	29.3	7.7				6.52	29.5	7.6	1.05				7:41 AM	7:41 AM	DE
21	4,568,052										1.68						ES
22	4,773,173										1.61						ES
23	4,455,940	1.86	29.2	7.7				6.76	29.3	7.6	1.48				7:15 AM	7:44 AM	DE
24	4,329,372	2.58	29.6	7.8				6.57	29.1	7.7	1.35				7:46 AM	8:00 AM	DE
25	4,295,215	2.42	29.5	7.7				6.82	29.3	7.6	1.08				7:32 AM	7:36 AM	DE
26	4,098,048	2.51	29.2	7.5				6.62	28.4	7.7	1.13				8:43 AM	8:40 AM	JM
27	4,015,042	2.66	29.2	7.8				6.78	27.4	8.0	1.14				8:01 AM	8:50 AM	JM
28	4,196,435										1.55						JV
29	4,439,397										1.12						JV
30	4,174,816	2.69	28.9	7.6				7.01	27.3	7.7	1.79				7:47 AM		DE
TOTAL	138,289,582																
AVG	4,609,653																
MAX	7,733,417							7.03		8.2	1.79						
MIN	3,694,161							6.10		7.4							

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 16

Other Industrial User Information

Reference: Domestic Technical Report 6.0

Section 1 A

Salitrillo WWTP

Permit: WQ0010749-001

San Antonio River Authority

Other Industrial User Information

The four Other IU's listed are not SIU's since they discharge less than 25,000 gallons per day and do not have the potential of causing interference or pass through at the Salitrillo WWTP.

Other IU's listed:

Supa Doors Inc. SIC Code 2431

1732 Universal City Blvd, Universal City, Texas 78148.
0 gallons per day of Process Wastewater discharges.
92 gallons per day non-process wastewater discharges.

Meadow Burke Products SIC Code 3499

8521 FM 1976, Converse, TX 78109.
0 gallons per day of process wastewater discharges.
465 gallons per day of non-process wastewater discharges.

Ingram Ready Mix SIC Code 3273

9450 FM 78, Converse, TX 78109.
0 gallons per day of process wastewater discharges.
5368 gallons per day of non-process wastewater discharges.

Best Block SIC Code 3271

418 Gibbs-Sprawl Rd, Converse, TX 78109.
0 gallons per day of process wastewater discharges.
2355 gallons per day of non-process wastewater discharges.

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 17

Significant Industrial User Information

Reference: Domestic Technical Report 6.0

Section 3

Alamo Plating and Metal Finishing LTD
Effluent Treatment Procedures

Overview:

Alamo Plating and Metal Finishing produces liquid waste from normal operations that are pretreated using industry standard practices and techniques. No continuous effluent stream is discharged from Alamo Plating and Metal Finishing. All effluents are treated on a batch treatment basis. Alamo Plating and Metal Finishing has the capacity to batch treat up to 1000 gallons of liquids at a time, with a typical batch treatment consisting of 500-900 gallons up to several times a week. These liquids are treated for pH and metal concentration. Alamo Plating and Metal Finishing uses a pH meter and a Hydrodyne colorimeter as analytical devices used to measure metal concentrations. Alamo Plating and Metal Finishing is capable of testing for Aluminum, Copper, Cyanide, Nickel, Free Chlorine, Hex Chrome, and Zinc in house. Alamo Plating and Metal Finishing uses the product Broco WCM40 metal precipitant supplied by Broco Products and caustic soda as the method for treating liquids containing metals. Once the liquids have been treated and are in compliance with limits set forth by the EPA and SARA regulatory agencies, the results are recorded in a POTW discharge log, and the liquid is then filtered with a filter plate press and the effluent is discharged to the POTW. The resultant sludge is then dried, barreled and finally shipped off site for disposal. The current effluent streams generated and treated at Alamo Plating and Metal Finishing are listed below along with their treatment methods.

All treatments listed on this procedure will be performed by trained personnel at Alamo Plating and Metal Finishing. The operator will sign off each time a treatment is performed. A training record will be maintained for each operator trained for treatment.

If at anytime an accidental discharge occurs the treatment operator will immediately contact The SARA office for notification of discharge.

Acids:

Muratic and Nitric acids used in the stripping of plating will be treated using the following procedure.

1. **Make sure the valve to POTW is fully closed.**
2. **Add 200 gallons of water to batch treatment tank for each 55 gallons of acid to treat.**
3. **Add Acid to batch treatment tank.**
4. **Check and adjust pH to between 6.0 to 8.5 by slowly adding caustic soda.**
5. **Add 100 gallons per 55 gallons of acid treated to cool solution.**
6. **Add sufficient Broco WCM40 and caustic soda to precipitate metals.**
7. **Mix.**
8. **Allow up to 2 hours to settle.**
9. **Take a grab sample and test for metals using the colorimeter.**
10. **If metals are present above acceptable limits, repeat steps 6 through 9.**
11. **Filter effluent to POTW with filter press.**

Alkalines:

Soaps used in the metals cleaning cycle include MacDermid 88A which is a sodium metasilicate type of soap.

Soaps used in the cleaning cycle will be treated using the following procedure.

1. **Make sure the valve to POTW is fully closed.**
2. **Add Alkaline to batch treatment tank.**
3. **Check and adjust pH to between 6.0 to 8.5 with muratic acid or nitric acid.**
4. **Add sufficient Broco WCM40 to precipitate metals.**
5. **Mix.**
6. **Allow up to 2 hours to settle.**
7. **Take a grab sample and test for metals using the colorimeter.**
8. **If metals are present above acceptable limits, repeat steps 4 through 7.**
9. **Filter effluent to POTW with filter press.**

Floor cleaning:

From time to time the floors are rinsed in the production areas and the resultant liquid is treated using the following procedure.

1. **Make sure the valve to POTW is fully closed.**
2. **Add floor cleaning liquid to batch treatment tank.**
3. **Check and adjust pH to between 6.0 to 8.5.**
4. **Add sufficient Broco WCM40 to precipitate metals.**
5. **Mix.**
6. **Allow up to 2 hours to settle.**
7. **Take a grab sample and test for metals using the colorimeter.**
8. **If metals are present above acceptable limits, repeat steps 4 through 7.**
9. **Filter effluent to POTW with filter press.**

Treatment limits.

All colorimeter results will be checked against the limits listed below.

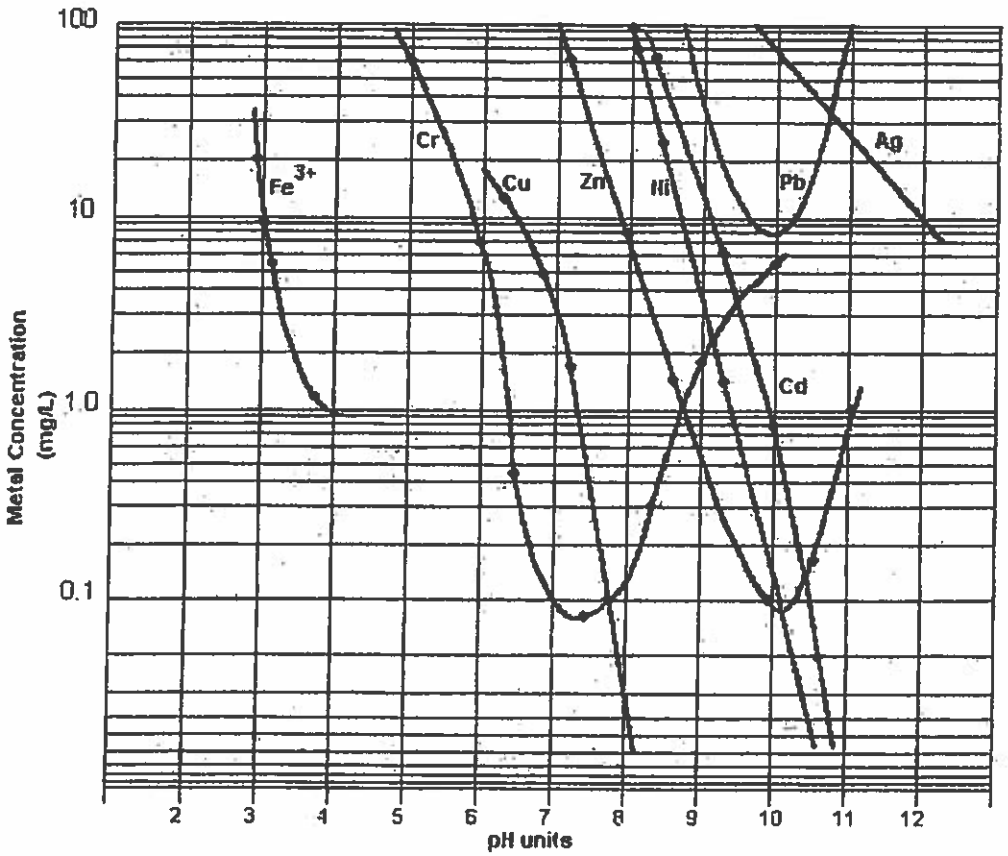
Metal	Daily Composite	Grab Sample
Chromium	1.0	5.0
Copper	1.0	2.0
Cyanide (total)	2.5	
Nickel	2.0	3.0
Silver	0.1	0.2
Zinc	2.0	6.0

Hydroxide Precipitation

- 5

Hydroxide Precipitation

The most common used method to remove soluble metal ions from solution is to precipitate the ion as a metal hydroxide. The process is readily automated and controlled by a simple pH controller. By raising the pH value of a solution with a common alkaline material such as lime, or sodium hydroxide the corresponding metallic hydroxide compounds become insoluble and precipitate from solution. Below is a metal hydroxide solubility curve showing the solubility of the common heavy metal ions and their respective solubility versus pH.



If copper is reviewed, it is seen that at a pH of 6 copper has a solubility of 20 mg/l and at a pH of 8.0, the solubility is 0.05 mg/l.

Nickel has a similar curve but it occurs at 3 pH points high. At a pH of 8.0 nickel has a solubility of 70 mg/l and at a pH of 10.2 the solubility is 0.1 mg/l.

Several metals such as chromium and zinc are amphoteric, being soluble at both alkaline and acid conditions. Chromium reaches its least theoretical chromium solubility of 0.08 at pH of 7.5.

If both chromium and nickel are present a pH value that precipitates both ions must be chosen. It is common to utilize a pH of 9.0 - 9.5 to precipitate both metals.

The theoretical solubility usually does not exist in practice. Metallic coagulant such as ferric chloride or aluminum sulfate are generally used to accelerate the coagulation and precipitation of the heavy metals. Even when not added they are present from other metal processing solutions such as the pickling bath. Ferric hydroxide and/or aluminum hydroxide precipitate and tend to form co-precipitate with nickel and chromium. The net is a metallic ion concentration lower than would be predicted from the solubility curve.

The effluent limitations for chromium and nickel are both 2.4 mg/l to discharge to a city sewer in the U.S. A pH value of 9 - 9.5 will usually precipitate both ions to their required level.

If chromium must be precipitated to a level less than 0.5 mg/l the pH must be operated at 7.0-8.0. If nickel is present it must be precipitated with sulfide as the metallic sulfide ion. Chromium does not form insoluble sulfide precipitates and must be precipitated as the hydroxide at 7.0 - 8.0.

Attached is the heavy metal sulfide solubility curves. The sulfide solubility is several orders of magnitude lower than the comparable hydroxide.

Ammonical Complexes

Most heavy metal ions readily precipitate by raising the pH of solution, forming the respective metal hydroxide compound. A hydroxide precipitation curve is attached demonstrating the relationship

Certain metal ions, primarily copper, zinc and cadmium readily form metallic complexes with ammonia. The ammonical metal complexes remain vary soluble at the higher pH values prohibiting the precipitation of the respective metal hydroxide. There are several methods conventionally used to destroy the ammonical complex and precipitate the metallic ion.

The ammonia ion may be destroyed by oxidation with chlorine or ozone. Eliminating the ammonia destroys the complex. However, the cost is prohibitive when compared to other methods.

The addition of soluble ferrous ion as either ferrous sulfate or ferrous chloride will coprecipitate the metallic ion with the iron hydroxide.

Sulfide Solubility

The most economical method is to add soluble sulfide ions and break the ammonical complex by precipitating the metallic sulfide compounds. The sulfide solubility chart below demonstrates the solubility of the metal sulfide compounds. Copper sulfide, for example, is a very insoluble compound and the presence's of soluble sulfide precipitates the copper as it dissociates from the ammonical complex. Ultimately, the copper is all removed from the complex and precipitated as copper sulfide. The ammonia remains in the solution.

Alamo Plating and Metal Finishing
Batch Treatment Log

Date	Time	Pre-Treatment Volume gallons	pH	PH-Treatment Description	Post-Treatment Volume Gallons	pH	Ni mg/l	Cu mg/l	Cr^3 mg/l	Operator
6-24-19		800	5.5	Add soda	800	7.6	.3	.2	NT	SG
7-8-19		800	6.1	Add soda	800	7.5	.4	.2	NT	[illegible]
7-24-19		800	6.2	Add soda	800	7.4	.4	.1	NT	SG
7-29-19		900	6.8	Add Soda	900	7.5	.4	.6	NT	SG

Metal Concentration Limits

Chromium	1.0 mg/l
Copper	1.0 mg/l
Nickel	2.0 mg/l

pH Range 6.0-8.5

Alamo Plating and Metal Finishing
Batch Treatment Log

Date	Time	Pre-Treatment Volume gallons	pH	PH-Treatment Description	Post-Treatment Volume Gallons	pH	Ni mg/l	Cu mg/l	Cr^3 mg/l	Operator
5-17-17		800	6.5	Add Soda	800	7.6	.4	.12	NT	Steven Ga
7-14-17		800	6.5	ADD Soda	800	7.4	.4	.3	NT	Steven Ga
7-21-17		750	6.5	ADD Soda	750	7.2	.3	.12	NT	Steven Ga
8-5-17		800	6.3	Add Soda	800	7.6	.4	.12	NT	Steven Ga
8-19-17		800	6.3	Add soda	800	7.2	.3	.2	NT	SG
9-3-17		800	6.7	Add Soda	800	7.4	.4	.3	NT	SG
9-16-17		750	6.1	Add Soda	750	7.6	.3	.12	NT	SG
10-6-17		800	6.0	Add Soda	800	7.7	.3	.2	NT	SG
10-21-17		800	6.2	Add Soda	800	7.5	.4	.2	NT	SG
11-5-17		800	6.3	Add Soda	800	7.7	.4	.3	NT	SG
11-20-17		700	6.1	Add Soda	700	7.5	.3	.3	NT	SG
12-5-17		800	6.0	Add Soda	800	7.4	.4	.3	NT	SG
12-21-17		700	6.6	Add Soda	700	7.6	.3	.12	NT	SG
1-10-18		800	6.1	Add Soda	800	7.4	.4	.3	NT	SG
1-24-18		800	6.0	Add Soda	800	7.7	.3	.2	NT	SG

Metal Concentration Limits

Chromium	1.0 mg/l
Copper	1.0 mg/l
Nickel	2.0 mg/l

pH Range 6.0-8.5

Alamo Plating and Metal Finishing
Batch Treatment Log

Date	Time	Pre-Treatment Volume gallons	pH	PH-Treatment Description	Post-Treatment Volume Gallons	pH	Ni mg/l	Cu mg/l	Cr^3 mg/l	Operator
2-6-18		800	6.5	Add soda	800	7.2	.3	.12	NT	SG
2-20-18		700	6.1	Add soda	700	7.6	.3	.2	NT	SG
3-7-18		800	6.3	Add soda	800	7.7	.4	.3	NT	SG
4-5-18		800	6.6	Add soda	800	7.2	.3	.12	NT	SG
4-18-18		800	6.1	Add soda	800	7.4	.3	.4	NT	SG
5-2-18		750	6.3	Add soda	750	7.8	.4	.12	NT	SG
5-16-18		800	6.0	Add Soda	800	7.5	.3	.3	NT	SG
6-4-18		800	6.3	ADD soda	800	7.6	.3	.2	NT	SG
6-20-18		800	6.1	ADD soda	800	7.2	.3	.12	NT	SG
7-21-18		700	6.6	Add soda	700	7.4	.4	.3	NT	SG
8-7-18		800	6.1	Add soda	800	7.7	.3	.2	NT	SG
8-20-18		800	6.1	Add soda	800	7.3	.3	.12	NT	SG
9-5-18		800	5.8	Add soda	800	7.8	.4	.3	NT	SG
9-20-18		800	6.3	Add soda	800	7.6	.3	.2	NT	SG
10-5-18		750	6.1	Add soda	750	7.4	.3	.4	NT	SG

Metal Concentration Limits

Chromium	1.0 mg/l
Copper	1.0 mg/l
Nickel	2.0 mg/l

pH Range 6.0-8.5

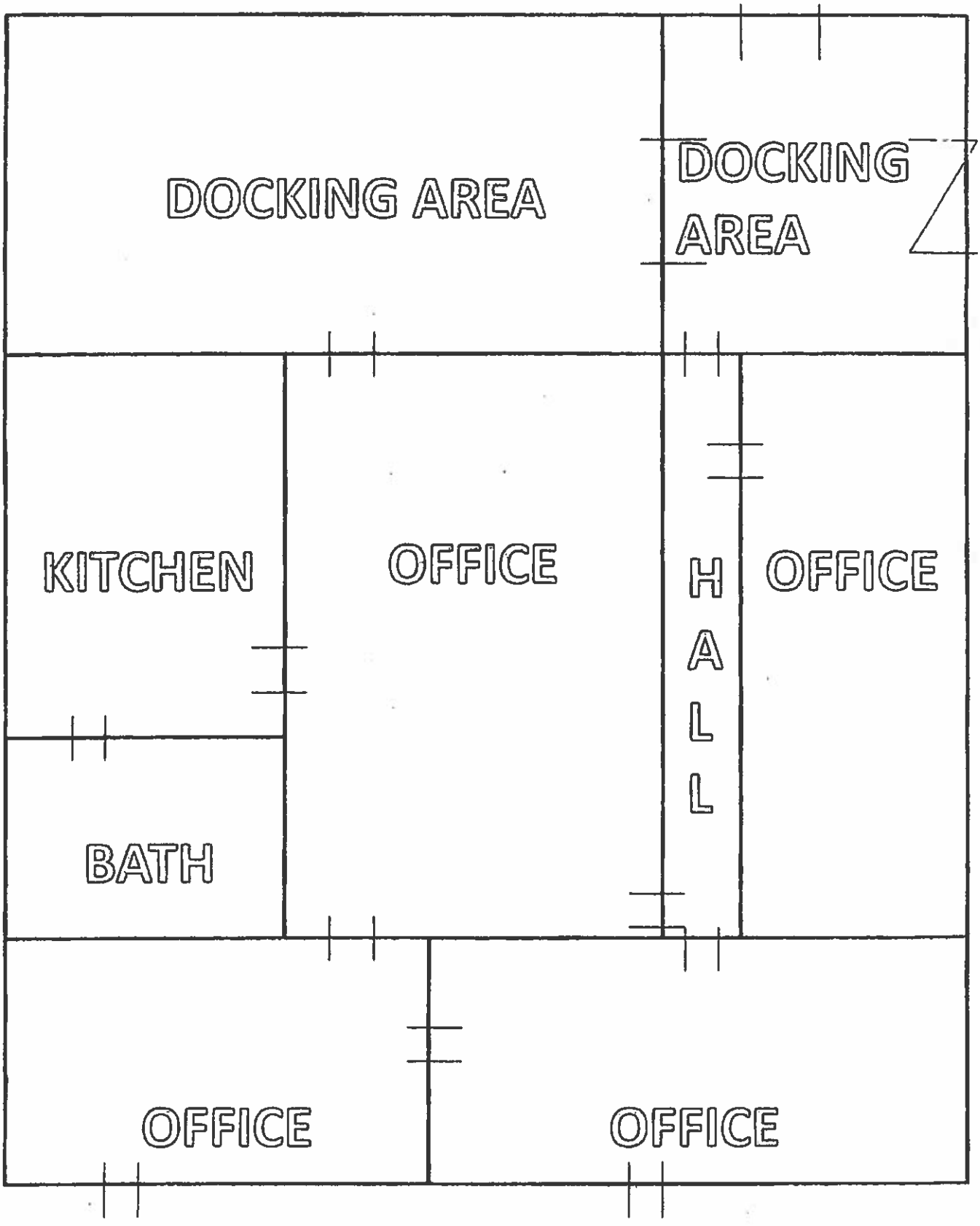
Alamo Plating and Metal Finishing
Batch Treatment Log

		Pre-Treatment		PH-Treatment	Post-Treatment					
Date	Time	Volume gallons	pH	Description	Volume Gallons	pH	Ni mg/l	Cu mg/l	Cr^3 mg/l	Operator
10-20-18		800	6.0	Add soda	800	7.7	.3	.2	NT	SG
11-5-18		800	6.3	Add soda	800	7.8	.4	.3	NT	SG
11-19-18		800	6.6	Add soda	800	7.7	.4	.4	NT	SG
12-5-18		800	6.1	Add soda	800	7.2	.3	.12	NT	SG
12-21-18		700	5.8	Add soda	700	7.3	.3	.3	NT	SG
1-10-19		800	6.3	Add soda	800	7.4	.4	.2	NT	SG
1-25-19		800	6.1	Add soda	800	7.2	.3	.3	NT	SG
2-10-19		750	6.0	Add soda	750	7.5	.2	.12	NT	SG
2-26-19		800	6.1	ADD SODA	800	7.6	.2	.12	NT	SG
3-15-19		800	6.2	ADD SODA	800	7.8	.4	.3	NT	SG
4-5-19		800	6.5	Add soda	800	7.5	.3	.2	NT	SG
4-20-19		700	6.1	Add Soda	700	7.1	.2	.2	NT	SG
5-5-19		750	6.6	Add soda	750	7.6	.4	.2	NT	SG
5-25-19		800	6.2	Add soda	800	7.5	.3	.4	NT	SG
6-8-19		800	6.0	Add soda	800	7.2	.4	.3	NT	SG

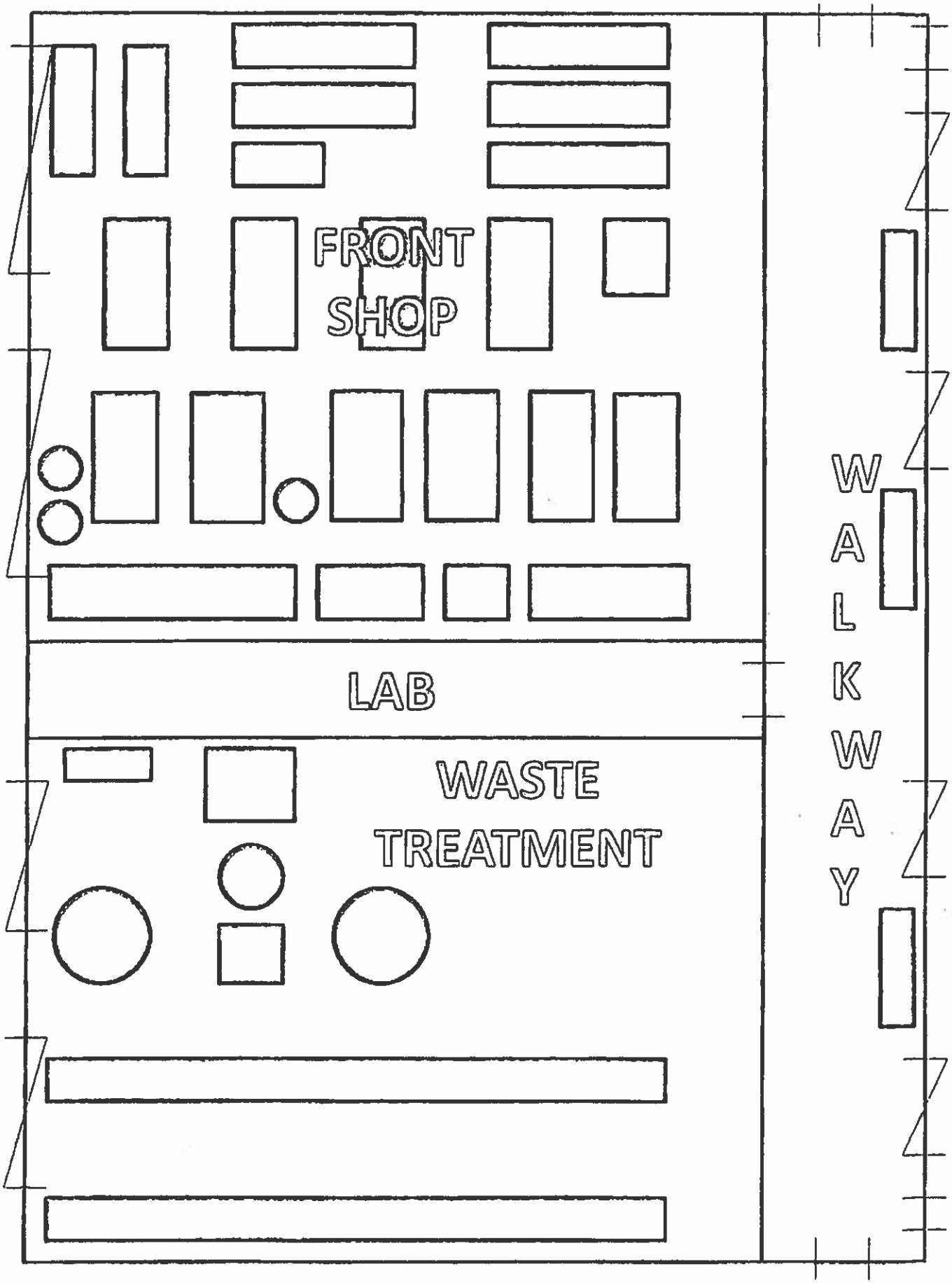
Metal Concentration Limits

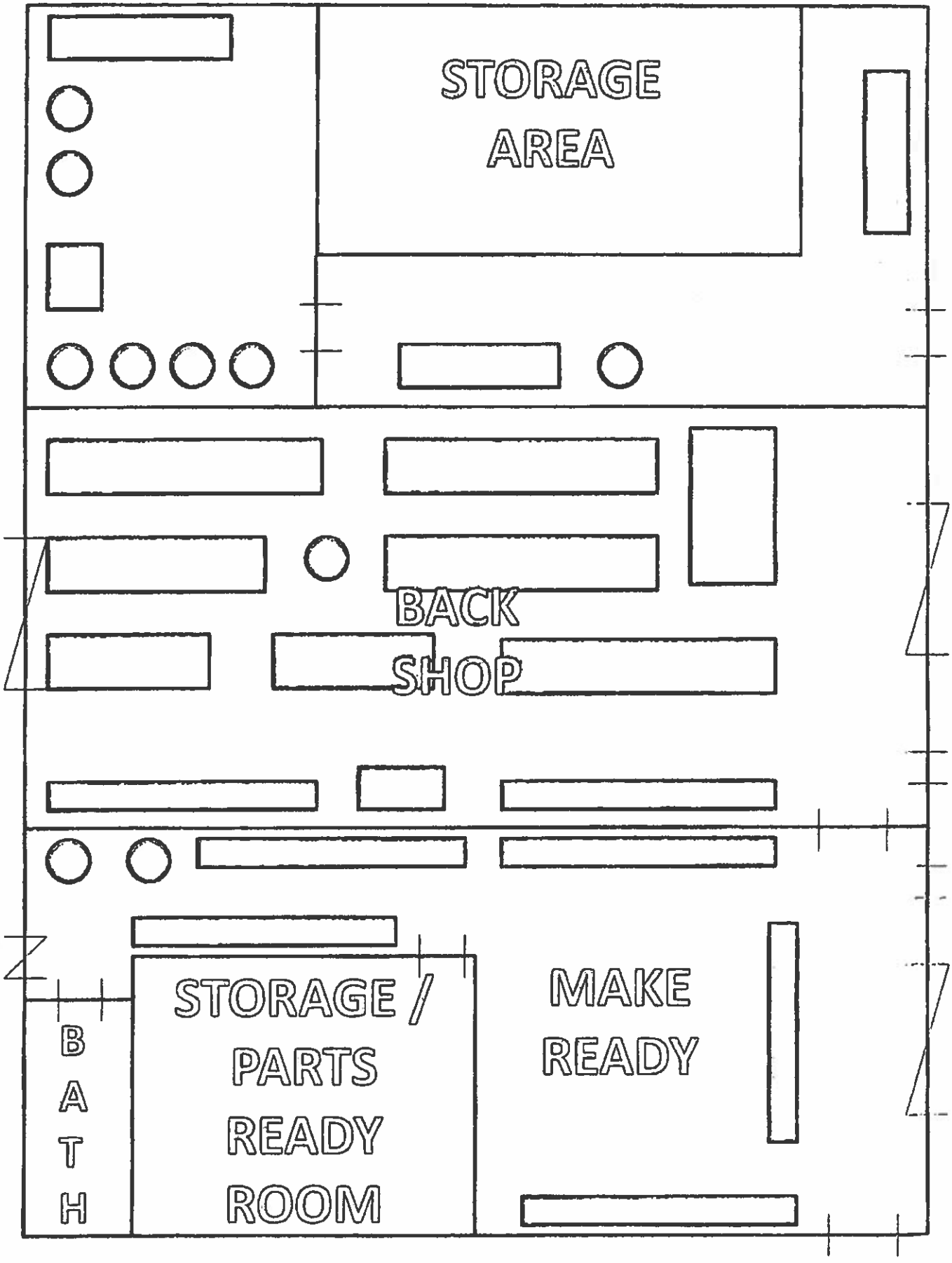
Chromium	1.0 mg/l
Copper	1.0 mg/l
Nickel	2.0 mg/l

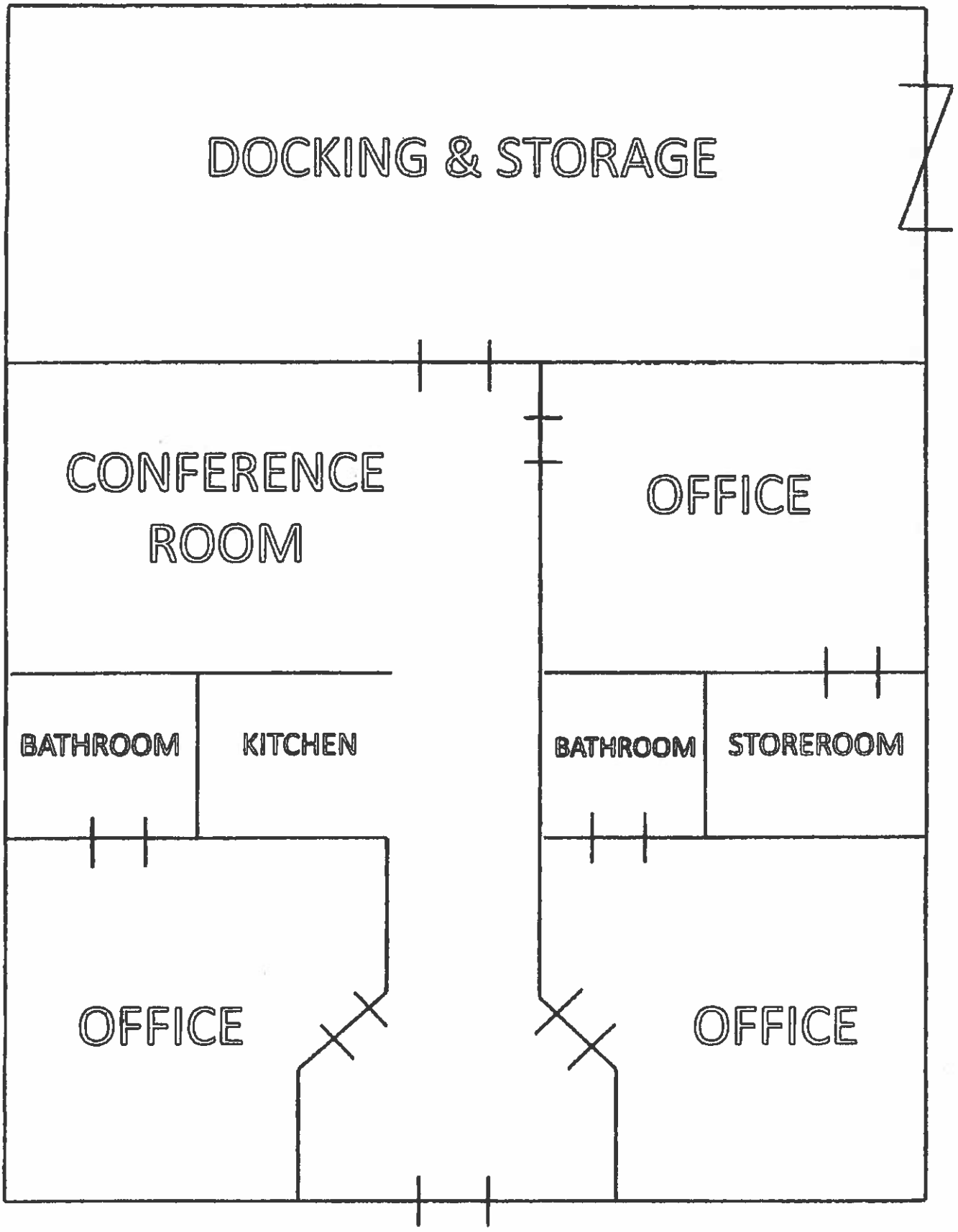
pH Range 6.0-8.5



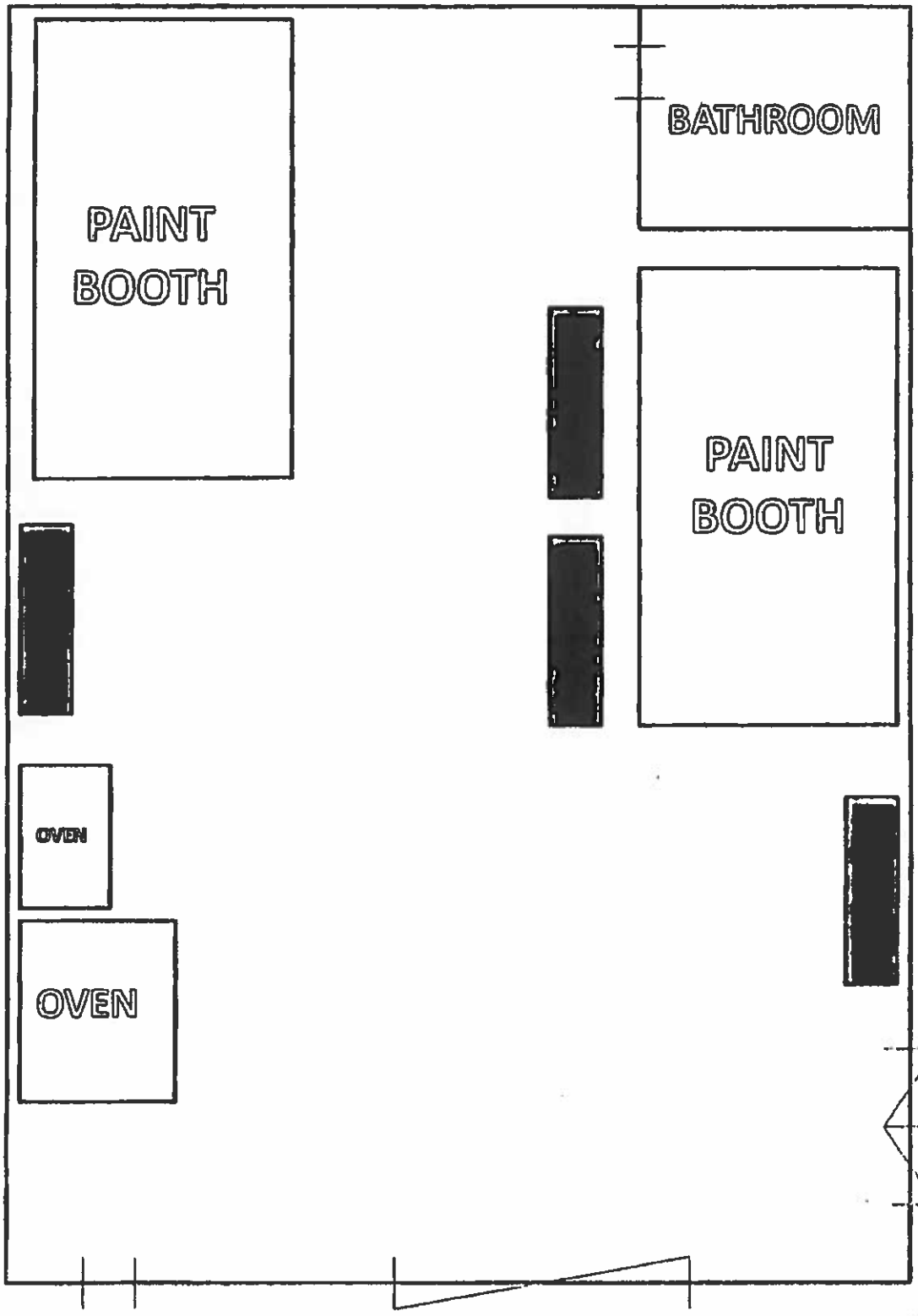
ALAMO PLATING & METAL FINISHING, LTD.

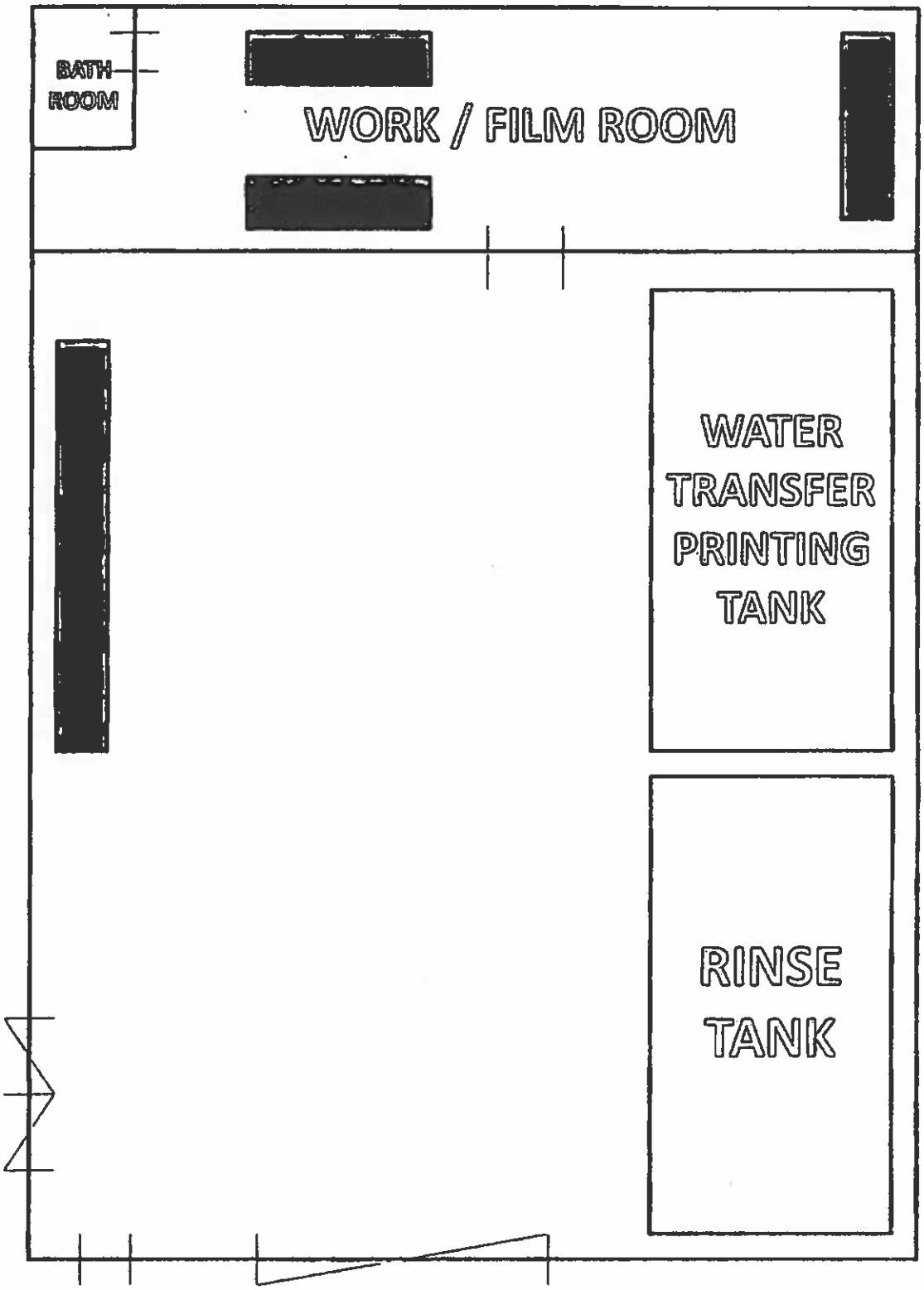

FRONT
SHOP
LAB
WASTE
TREATMENT
WALKWAY

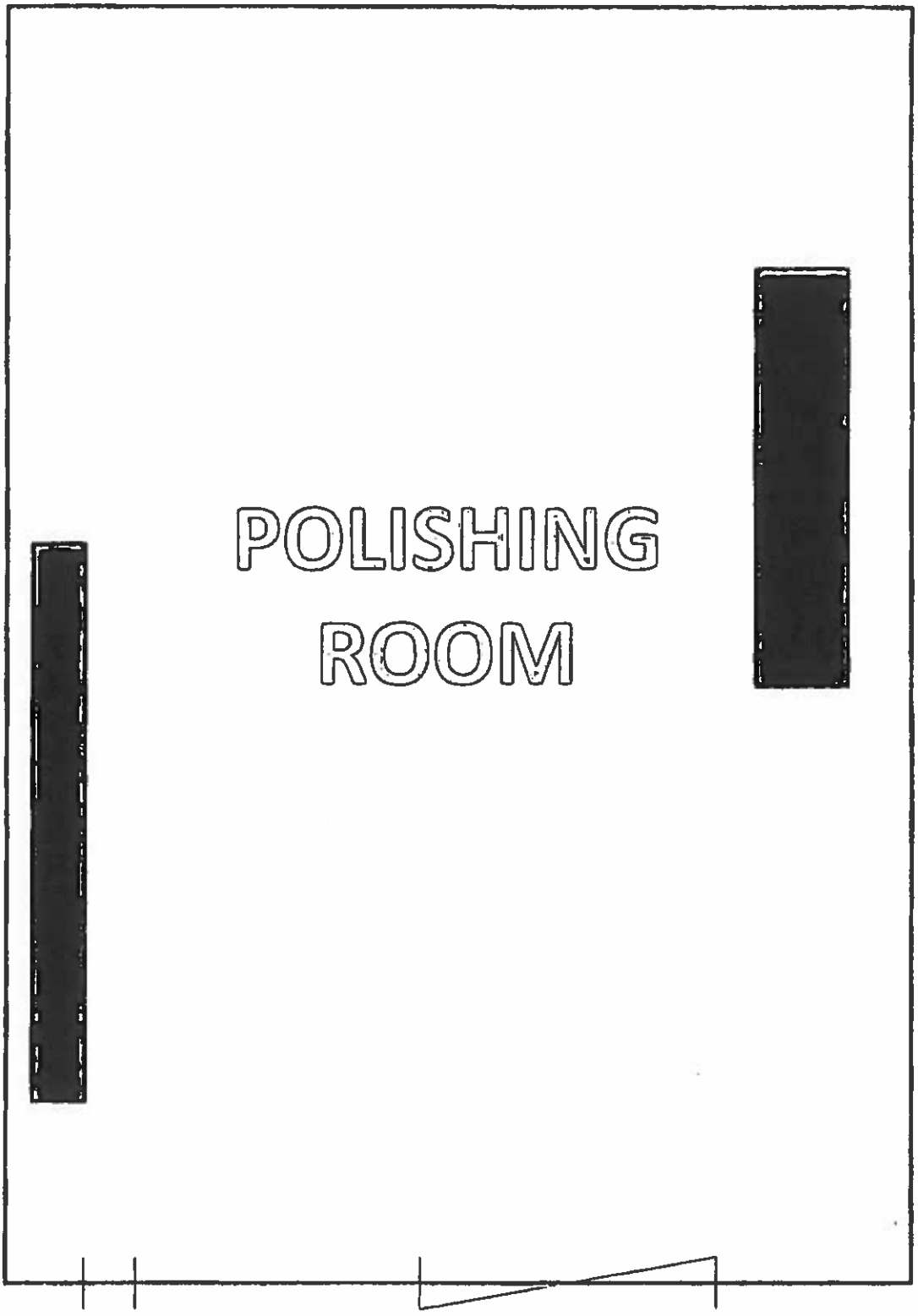

STORAGE
AREA
BACK
SHOP
BATH
STORAGE /
PARTS
READY
ROOM
MAKE
READY

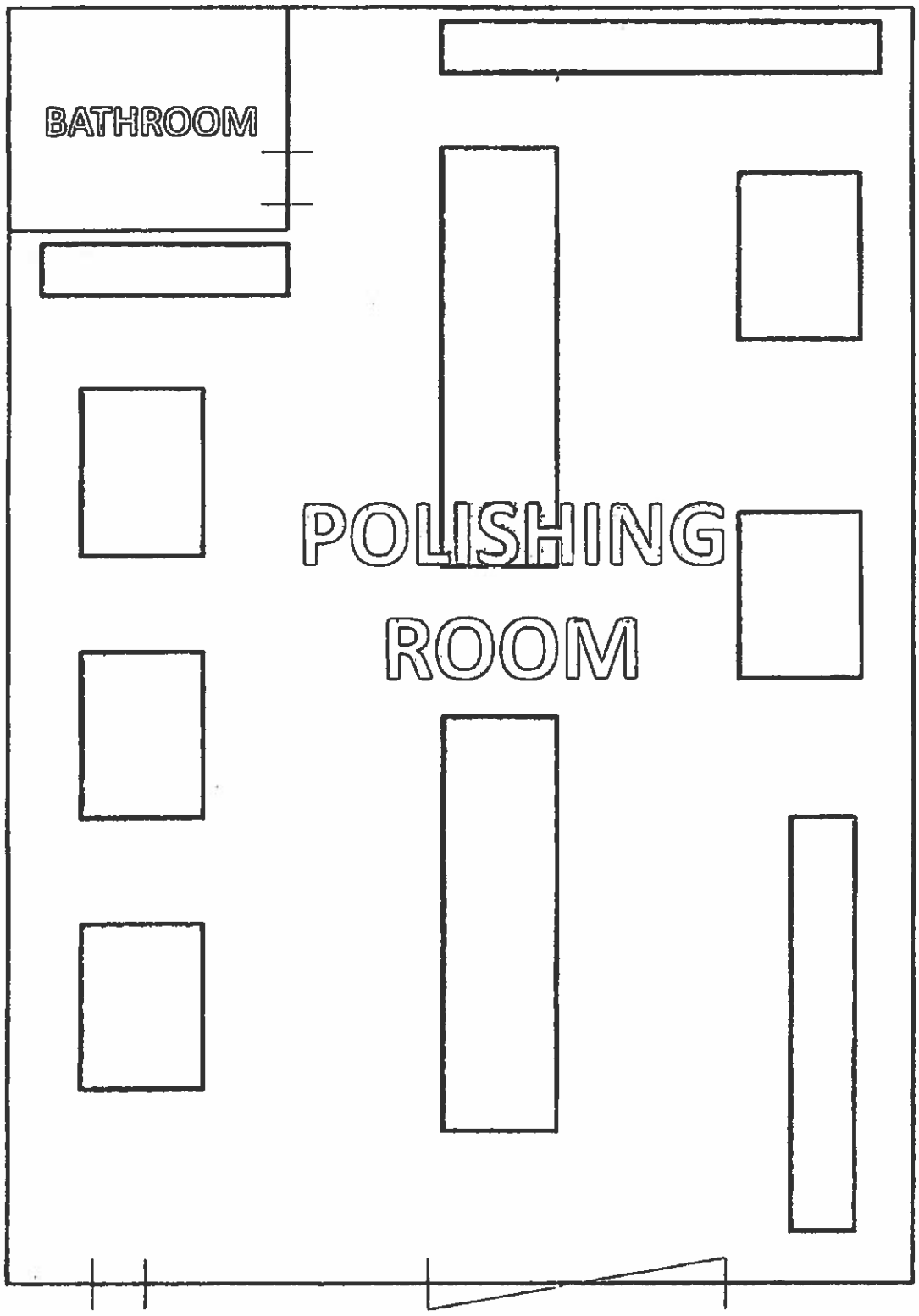


ALAMO PLATING & METAL FINISHING, LTD.


PAINT
BOOTH
BATHROOM
PAINT
BOOTH
OVEN
OVEN


BATH ROOM
WORK / FILM ROOM
WATER TRANSFER PRINTING TANK
RINSE TANK


POLISHING
ROOM


BATHROOM
POLISHING
ROOM

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 18

Summary Transmittal Letter and Approval

Reference: Domestic Technical Report 1.0

Section 6A

and

Reference: Domestic Technical Report 1.0

Section 6C

FREESE AND NICHOLS
Innovative approaches
Practical results
Outstanding service

9601 McAllister Parkway, Suite 1008 • San Antonio, TX 78216 • 210-298-3800 • www.freese.com

November 30th, 2021

Mr. Louis C. Herrin III, P.E.
TCEQ
Water Quality Division MC – 148
Plans and Specification Review
12100 Park 35 Cir
Austin, TX 78753

Re: Chapter 217.6 Summary Transmittal Letter

Permittee: San Antonio River Authority, San Antonio, TX
Permit Number: WQ0010749001
Project Name: Salitrillo WWTP Expansion Project
County: Bexar

Dear Mr. Herrin:

The purpose of this letter is to provide the Texas Commission on Environmental Quality (TCEQ) with the information necessary to comply with the requirements of 217.6(c) of the TCEQ's rules entitled, "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS." The necessary information includes:

1. **Name and address of the design firm:**

   Freese and Nichols, Inc.
   9601 McAllister Freeway, Suite 1008
   San Antonio, TX 78216

   Firm Number:
   F-2144

2. **Name, phone number, and facsimile number of the design engineer:**

   Kendall King, P.E.
   Phone: 512-381-1834
   E-mail: Kendall.King@freese.com

3. **County where the project will be located:**

   Bexar County

4. **Identifying name for the project:**

   Salitrillo WWTP Expansion Project

5. **Name of the entity that proposes to own, operate, and maintain the project through its design life:**

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

6. **Statement certifying that the plans and specifications are in substantial compliance with all the requirements of Chapter 217, with the exception of any listed variance requests.**

   The plans and specifications for this project are in substantial compliance with the requirements of all applicable sections of TAC Chapter 217, with the exception of variances listed under item 8 d/e.

7. **Statement certifying that any variances will not threaten public health or the environment, based on the best professional judgement of the engineer who prepared the engineering report and the project plans and specifications:**

   Project variances will not threaten public health or the environment.

8. **Brief description of the project scope:**

   a. <u>Brief engineering summary describing purpose.</u>

   The Salitrillo WWTP Expansion project includes all process and hydraulic improvements required to expand the facility from its current interim permit capacity (5.83 MGD average daily flow; 14.69 MGD peak 2-hr flow) to its buildout final permit capacity (7.33 MGD average daily flow; 18.33 MGD peak 2-hr flow) included in the Texas Pollutant Discharge Elimination System (TPDES) discharge permit. This expansion has been triggered since the running annual average daily flow has exceeded 75% of the interim permitted flow of 5.83 MGD and is projected to exceed 90% by 2022.

   The plant splits flow between an upper train and lower train, before combining into a single discharge line to a single outfall to the Salitrillo Creek. The permitted flows are shown in Table 1 and the plant expansion design flows, including those for each treatment train, are shown in Table 2.

Table 1: Discharge Permit Flows

Phase	Annual Average Flow (AAQ) (MGD)	Peak 2-hr Flow (PDQ) (gpm)
Interim	5.83	10,204 (14.69 MGD)
Final	7.33	12,726 (18.33 MGD)

Table 2: Plant Expansion Design Flows and Flow Splits

Phase	Annual Average Flow (AADF) (MGD)	Peak 2-hr Flow (P2HF) (MGD)
Upper Plant	2.30 (31%)	4.23 (24%)
RAS	2.74	-
Lower Plant	5.03 (69%)	14.10 (76%)
Oxidation Ditch Train	2.04 (59.4%)	5.72 (59.4%)
Aeration Carrousel Train	2.99 (40.6%)	8.38 (40.6%)
RAS[1]	6.78	-
Total Plant Flow	7.33	18.33
1. Max rated capacity of existing RAS screw pump is 3.79 MGD; rated capacity of proposed RAS pump station is 2.99 MGD.		

The design loadings for the Salitrillo WWTP expansion are shown in Table 3. The permitted effluent quality is shown in Table 4. The treatment capacity of the existing biological treatment processes is shown in Table 5.

Table 3: Influent Design Loadings

Influent Characteristic	Influent Design Parameters (mg/L)
$cBOD_5$	225
TSS	200
NH_3-N	35

Table 4: Permitted Effluent Quality

Effluent Characteristic	Discharge Limitations			
	Daily Average (mg/L)	7-day Average (mg/L)	Daily Max (mg/L)	Single Grab (mg/L)
$cBOD_5$	7	12	22	32
TSS	15	25	40	60
NH_3-N	2	5	10	15
E. coli (CFU)	126	n/a	399	n/a
D.O.	6.0	n/a	n/a	n/a

Table 5: Salitrillo Process Capacity at Maximum Month cBOD Concentration of 225 mg/L

Biological Treatment Basin	Existing Process Volume (MG)	Max BOD Loading (lb/d/kft^3)	Max Treatment Capacity (MGD)
Oxidation ditch #1	1.00	15	1.03
Oxidation ditch #2	1.00	15	1.03
Lower Carrousels (#1, #2)	1.84	24	3.02
Upper Carrousel #1	1.40	24	2.30
Total Capacity (MGD) =			7.38

b. <u>List of treatment units to be constructed or altered:</u>

Table 6: Salitrillo WWTP Expansion BASE Scope Items[1]

Process	Improvement / Description	Reason
Upper Plant – 2.30 MGD Average Daily Flow, 4.23 MGD Peak 2-hr Flow		
Influent Lift Station	-Upsize existing lift station motors from 25 HP, 35 HP, 40 HP to 3x50 HP motors (single speed); 2 duty 1 standby, with associated belt / sheave replacement and electrical improvements. The operating point of each pump is 2.3 MGD @ 58' TDH with firm capacity of 4.23 MGD. -Miscellaneous piping and valve improvements as recommended by manufacturer	-Required to increase upper plant pumping capacity from 2.52 MGD to 4.23 MGD to achieve Final Phase plant hydraulic capacity of 7.33 MGD AADF and 18.33 MGD P2HR -Miscellaneous valve/piping replacement is required for reliable operation
Headworks Fine Screen	No Improvements – Replacement of the existing roto screen is under consideration as an alternate scope item should budget allow. Current maximum screen capacity is 10.1 MGD peak flow (3 MGD average) and sufficient for proposed expansion.	
Headworks Grit Removal	N/A – No grit removal is currently included or proposed for the upper plant treatment train.	
Biological Treatment (Aeration Carrousel)	-Replace and upsize existing Aeration Carrousel Mechanical Aerators (3) from 60 HP single speed to 100 HP with VFD	-Required to increase aeration treatment capacity to 7.33 MGD AADF / 225 mg/L cBOD at 24 lb/d/kft^3 and achieve a minimum DO of 2 mg/L
Existing Secondary Clarification	No Improvements – Existing 90 ft secondary clarifier w/13ft side water depth has overflow rate of 665 gpd / ft^2 at peak 4.23 MGD flow.	
Existing UV Disinfection	-Remove existing UV Disinfection equipment -Install new combined UV Disinfection Basin to treat flows from both the upper and lower plant	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs
Existing Post Aeration	-Remove existing Post Aeration equipment -Install new combined Post Aeration	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs

Process	Improvement / Description	Reason
Existing NPW Pumps	N/A – No NPW system is currently installed for the upper plant train and no NPW distribution lines are routed to the upper plant from the lower plant. New NPW system to be installed at combined effluent structure with distribution piping routed to the upper plant train.	
Lower Plant - 5.03 MGD Average Daily Flow, 14.10 MGD Peak 2-hr Flow		
Influent Lift Station	-Replace existing single speed 60 HP 54" Screw pump in kind (4,889 gpm; 30.97 ft hydraulic lift)	-Existing pump (1 out of 3) is out of service -Required to maintain lower plant firm capacity of 14.1 MGD (2 duty pumps, 1 standby)
Headworks Mechanical Screen	No Improvements – Replacement of the existing step screen is under consideration as an alternate scope item should budget allow. Current maximum screen capacity is 8.28 MGD peak flow with remaining 5.82 MGD flow routed through manual screen and sufficient for proposed expansion.	
Headworks Grit Removal	No Improvements – Replacement of the existing roto screen is under consideration as an alternate scope item should budget allow. Current maximum screen capacity is 10.1 MGD peak flow (3 MGD average) and sufficient for proposed expansion.	
Biological Treatment (Aeration Carrousels - two)	-Replace and upsize existing Aeration Carrousel Mechanical Aerators (4) from 60 HP to 100 HP with VFD	-Required to increase aeration treatment capacity to 7.33 MGD AADF / 225 mg/L cBOD at 24 lb/d/kft^3 to achieve a minimum DO of 2 mg/L
Biological Treatment (Oxidation Ditch - two)	No Improvements – Existing two (2) oxidation ditches will remain in operation with 1.0 MGD treatment capacity each.	
Secondary Clarification	-Install two (2) new 100' secondary clarifiers, 14' side water depth with new RAS/WAS pump station. -New RAS/WAS Pump station to include three single speed self-priming centrifugal pumps (2 duty, 1 standby) • One Pump On: 1,302 gpm @ 29' TDH (pulling from a single clarifier – 1.25 Recycle Ratio (RR) • Two Pump On: 2,083 gpm @ 34 TDH – 1.0 RR	-Required to increase treatment capacity and meet SARA's 600 gpd / ft^2 surface loading rate design standard
UV Disinfection	-Remove existing UV Disinfection equipment -Install new combined UV Disinfection Basin to treat flows from both the upper and lower plant	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs
Post Aeration	-Remove existing Post Aeration equipment -Install new combined Post Aeration	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs
NPW Pumps	-Remove existing NPW pumps since will no longer be located downstream of UV disinfection at current location.	-Required to meet 30 TAC Chapter 217.39

Process	Improvement / Description	Reason
Combined Processes – 7.33 MGD Average Daily Flow, 18.33 MGD Peak 2-hr Flow		
UV Disinfection (NEW Combined Process to treat flows from both upper and lower plant, EXISITNG UV Disinfection to be decommissioned)	-Install new combined UV Disinfection Basin to treat flows from both the upper and lower plant	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs
Post Aeration (NEW Combined Process to treat flows from both upper and lower plant, EXISITNG post aeration to be decommissioned)	-Install new combined Post Aeration Basin, with two rotary lobe blowers and retrievable fine bubble tube diffusers to treat flows from both the upper and lower plant and achieve 6.0 mg/L D.O. discharge limit	-Required to increase treatment capacity; combined structure proposed to minimize capital, operational, and maintenance costs
NPW Pumps (NEW Combined Process to provide NPW water downstream of new UV Disinfection units)	-Install new NPW pump system on combined process flow downstream of proposed disinfection (since existing NPW system is located downstream of the existing lower plant UV disinfection, which will be decommissioned). -Reconnect to lower plant distribution system. -Install NPW distribution system to upper plant	-Required to meet 30 TAC Chapter 217.39
Effluent Flume (NEW Combined Process to measure flow from both upper and lower plant)	-Abandon existing effluent flume -Install new effluent flume at new combined UV Disinfection / Post Aeration / Effluent Pump Structure	-Required to increase treatment capacity -Required to prevent unauthorized overflow during a flood event
Floodplain Protection	-Install Effluent Pump Station; includes four (4) submersible 40 HP single speed pumps (3 duty, 1 standby) for firm capacity of 18.99 MGD. Each pump will include a dedicated discharge header to a raised channel with an operating point of 6.33 MGD @ 19.32 TDH	-Required for plant discharge during a flood event
Reuse Pumps	-Install new 6” combined suction piping to pull from proposed diversion manhole on proposed 36” effluent line.	-Required to maintain use of reuse pumps without relocation of mechanical and electrical equipment
Plant Drain Lift Station	-Install new 6’ diameter plant drain lift station to pump drain flows from proposed secondary clarifiers, proposed UV disinfection, future backwash filters, and proposed secondary clarifier sum lines back to the lower plant influent lift station / sludge vault	-Provide drain capabilities for proposed processes and manage clarifier scum

1. Plant expansion includes site process piping and site electrical improvements as needed to accommodate the process upgrades.

c. Map of wastewater treatment facility:
See the attached Site Plan.

d./e. Description of variances and an explanation of all:

- Variance request 30 TAC Chapter 217.328 (c) that states "A wastewater treatment facility must have at least one all-weather access road with the driving surface situatied above the 100-year floodplain". There is a single existing plant all-weather access road but the driving surface is currently situated below the 100-year floodplain. SARA is in the process of updating the hydraulic modeling of the East Salitrillo Creek Watershed to incorporate the Atlas 14 rainfall data and is requesting to defer this improvement to be complete in a separate project in the next 5 years once models are updated. See the attached variance request letter for further description and explanation of variance request.

- Variance request to 30 TAC Chapter 217.61 (f)(2) that states "A self-priming pump must use a suction pipe that produces flow with a velocity of at least 3.0 feet per second but not more than 7.0 feet per second". The existing 8" ductile iron discharge piping at the existing upper plant lift station will produce a maximum velocity of 10.54 fps with the proposed motor upsize at the existing self-priming centrifugal pumps. It is our understanding that the upper 7.0 fps limit is to manage head loss and provide protection against cavitation. The system NPSHa/NPSHr calculations for the proposed system are below in Table 7, also reviewed by the pump manufacturer, and the 8" suction has been confirmed to be acceptable for the system operation. Therefore, meeting this requirement incurs additional cost to upsize existing pipe from 8" to 10" that is not required for acceptable equipment operating conditions.

Table 7 – NPSHa Calculations for 8" Suction Line

Parameter	Value
Atmosphere Pressure	34 ft
Vapor Pressure	1.54 ft
All Pumps Off Elevation	624.50 ft
Pump Suction Elevation	640.80 ft
Static Lift (Max)	16.30 ft
Head Loss (Friction and Minor)	2.87 ft
NPSHa	13.29 ft
NPSHr	10 ft
NPSHa> NPSHr Safety Factor	3.29 ft

If you have any questions regarding this project, please contact:

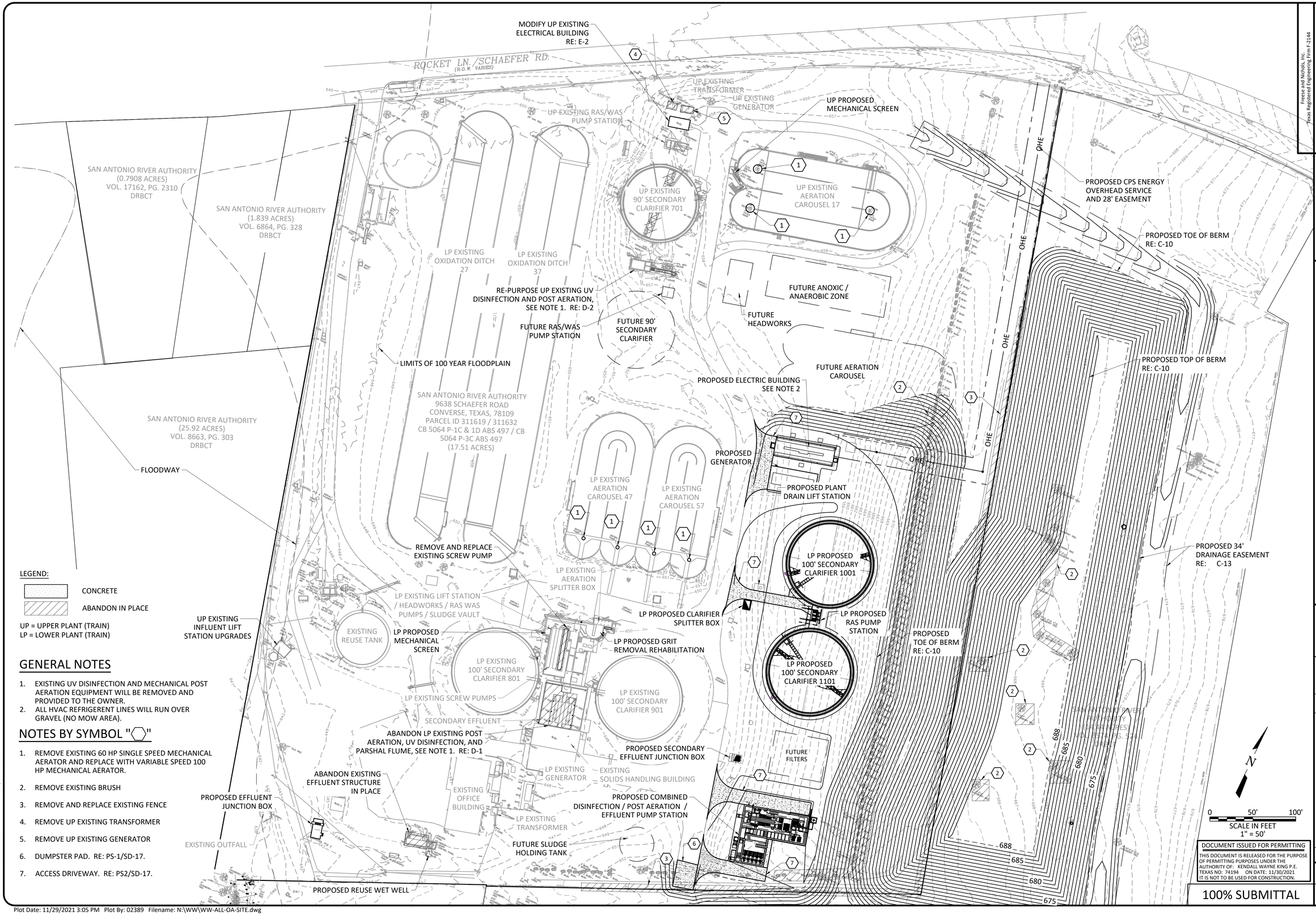
Kendall Wayne King, P.E.
Phone: 512-381-1834
E-mail: Kendall.King@freese.com

Sincerely,

Kendall King, P.E.
Freese and Nichols, Inc.

STATE OF TEXAS
KENDALL WAYNE KING
74194
LICENSED
PROFESSIONAL ENGINEER
11/30/2021

FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144



LEGEND:

- CONCRETE
- ABANDON IN PLACE

UP = UPPER PLANT (TRAIN)
LP = LOWER PLANT (TRAIN)

GENERAL NOTES

1. EXISTING UV DISINFECTION AND MECHANICAL POST AERATION EQUIPMENT WILL BE REMOVED AND PROVIDED TO THE OWNER.
2. ALL HVAC REFRIGERENT LINES WILL RUN OVER GRAVEL (NO MOW AREA).

NOTES BY SYMBOL "⬡"

1. REMOVE EXISTING 60 HP SINGLE SPEED MECHANICAL AERATOR AND REPLACE WITH VARIABLE SPEED 100 HP MECHANICAL AERATOR.
2. REMOVE EXISTING BRUSH
3. REMOVE AND REPLACE EXISTING FENCE
4. REMOVE UP EXISTING TRANSFORMER
5. REMOVE UP EXISTING GENERATOR
6. DUMPSTER PAD. RE: PS-1/SD-17.
7. ACCESS DRIVEWAY. RE: PS2/SD-17.

DOCUMENT ISSUED FOR PERMITTING

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PERMITTING PURPOSES UNDER THE AUTHORITY OF: KENDALL WAYNE KING P.E. TEXAS NO: 74194 ON DATE: 11/30/2021 IT IS NOT TO BE USED FOR CONSTRUCTION.

100% SUBMITTAL

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

STATE OF TEXAS · KENDALL WAYNE KING · 74194 · LICENSED PROFESSIONAL ENGINEER · 11/30/2021

FREESE NICHOLS
9601 McAllister Freeway, Suite 1008
San Antonio, Texas 78216
Phone - (210) 298-3800
Web - www.freese.com

SAN ANTONIO RIVER AUTHORITY
SALITRILLO WASTEWATER TREATMENT PLANT EXPANSION
CIVIL

PROPOSED SITE PLAN

F&N JOB NO. MGT20590
DATE 11/15/21
DESIGNED Value
DRAWN DWS
REVISED Value
CHECKED Value
FILE NAME WW-ALL-OA-SITE.dwg

BY | DATE | NO. | ISSUE

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.
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Plot Date: 11/29/2021 3:05 PM Plot By: 02389 Filename: N:\WW\WW-ALL-OA-SITE.dwg

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October 18, 2021

Mr. Louis C. Herrin III, P.E.
TCEQ – MC148
P.O. Box 13087
Austin, TX 78711-3087

Re: Variance Request – Plant Access Road
Permittee: San Antonio River Authority
Permit Number: WQ0010749001
Project Name: Salitrillo Wastewater Treatment Plant Expansion
County: Bexar

Dear Mr. Herrin:

Freese and Nichols, Inc. (FNI) on the behalf of San Antonio River Authority (River Authority) is requesting an exception to 30 TAC Chapter 217.328 (c) that states "A wastewater treatment facility must have at least one all-weather access road with the driving surface situated above the 100-year flood plain" for the Salitrillo Wastewater Treatment Plant as part of the Salitrillo Wastewater Treatment Plant (WWTP) Expansion Project, Permit Number WQ0010749001. The improvements required to meet 30 TAC Chapter 217.328 (c) will be implemented as part of a future project in the next five years, once flood map updates based on results of the National Weather Service Atlas 14 historical rainfall study have been finalized and adopted in 2023/2024. **The River Authority is requesting approval to use funds currently available for plant capacity expansion and phase road entrance improvements in a future project to be complete in the next five years, if determined to be necessary once flood map updates are implemented**. This would allow SARA to address Atlas 14 updates in an informed manner and avoid possibly wasting resources, potentially take advantage of federal funds available for flood mitigation projects, and implement a comprehensive solution with other stakeholders.

The Salitrillo WWTP Expansion project includes improvements required to increase the plant capacity from 5.83 MGD to 7.33 MGD and achieve the final permit phase. This expansion has been triggered since the plant currently experiences running annual average daily flows greater than 75% of the interim phase permitted flow and is projected to exceed 90% by 2022, with buildout conditions achieved by 2029. Due to budget constraints, the River Authority is implementing the expansion in multiple phases with the initial phase focused on increasing treatment capacity as required to meet the final phase of permit.

All plant improvements not required to meet the final permit flows have been broken down into three phases over the next twenty years to manage costs; the first future phase will be within 5 years. This includes site civil improvements to the plant access road. The plant has a single entrance installed with the original plant construction in 1973 and raised by approximately 1 ft as part of an expansion completed in 1982. To determine existing flood conditions, FNI modified the FEMA Effective HEC-RAS Model for East Salitrillo Creek by adding cross sections in the treatment plant area. The topography of the cross sections was updated based on 2017 TNRIS LiDAR and the Manning's n values were updated based on aerial imagery, published values in the Flood Insurance Study and engineering judgement. The resulting 100-year flood inundation boundary is referred to as the Corrected Effective floodplain. This does not take into account Atlas 14 rainfall. Based on the corrected effective 100-year floodplain for the area (FIRM Panel 48029C0295F, effective 9/29/2010), approximately 350 linear feet of the plant access road is located below the current effective 100-year floodplain elevation and within the Salitrillo Creek floodway.

According to the FEMA map, the water depth for the submerged portion of the plant access road ranges from 0.5 ft to 3.0 ft, as shown in Figure 1 and subsequent tables. This does not include Atlas 14 rainfall updates, which are expected to increase flood depths and may require additional improvements once implemented. Raising the existing plant entrance is not feasible based on modeled conditions since this would require filling in the floodway, which requires extensive regulatory coordination / permitting approval, and because Rocket Lane, the municipal roadway to which the plant entrance is connected, would remain flooded. Based on this information, a second plant entrance would likely be required to meet Chapter 217.328(c). However, the River Authority and the design team have doubts about the accuracy of the current FEMA Maps. A summary of significant rain events in the area and their relation to Atlas 14 rainfall depths is shown in Table 1 and 2. Even though the existing plant entrance is shown to be in the floodway, River Authority staff have never observed flooded access at the plant entrance and plant access has never been hindered during any rain event.

Table 1: Current 24-hr Atlas 14 Rainfall Depths for PA-3 (San Antonio Zone containing Salitrillo WWTP) San Antonio Drainage Manual

1-YEAR	2-YEAR	5-YEAR	10-YEAR	25-YEAR	50-YEAR	100-YEAR	500-YEAR
3.07 in.	3.96 in.	5.31 in.	6.56 in.	8.46 in.	10.06 in.	12 in.	17.51 in.

Table 2: Major Rain Events Recorded at San Antonio International Airport Weather Station*

Date	24-hr Rainfall (in.)	Between:	and:
10-17-1998	11.26	50-YEAR	100-YEAR
05-25-2013	9.87	25-YEAR	50-YEAR
07-01-2002	9.52	25-YEAR	50-YEAR
09-26-1973	6.54	5-YEAR	10-YEAR
05-05-1993	6.26	5-YEAR	10-YEAR
09-03-2018	6.07	5-YEAR	10-YEAR

*Approximately 10 miles from Salitrillo WWTP

The River Authority is acting as the local FEMA delegate and is in the process of updating the hydraulic modeling of the East Salitrillo Creek Watershed to incorporate the Atlas 14 rainfall data. New FEMA maps are expected to be adopted in 2023 or 2024. Additionally, construction on Rocket Lane for drainage and mobility improvements will begin mid-2022, and is expected to be complete in 2024. Based on field observation and feedback from plant staff in addition to the pending map revisions and Rocket Lane road improvements, the River Authority is requesting approval to phase the second road entrance for completion in the next 5 years and dedicate funds currently available for plant capacity expansion. This would also allow the River Authority to account for the impacts of Rocket Lane improvements, address Atlas 14 updates at one time and possibly take advantage of federal funds available for flood mitigation projects.

Sincerely,

Kendall King, P.E., Freese and Nichols
Kendall.king@freese.com
512-381-1834

Cc: Erika “Rikki” Anderson, P.E., San Antonio River Authority

Attachments:
Figure 1 100-Year Corrected Effective Floodplain with Rocket Lane Improvements
Figure 2 FIRM Panel 48029C0295F

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SAN ANTONIO RIVER AUTHORITY
SALITRILLO WWTP

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions

- Salitrillo WWTP Outfall
- Stream Centerline
- Floodway
- Parcel Boundary
- Existing Infrastructure
- Proposed Infrastructure
- RAS Cross Sections

100-yr Corrected Depth

- < 0.1 ft
- 0.1 < 0.5 ft
- 0.5 - 1 ft
- 1 < 3 ft
- > 3 ft

Schaefer Rd
6994
7066
Depth = 1.0 ft
6899
6834
6773
Depth = 4.1 ft
Oxidation Ditches
6635
Existing Access Road
6487
Secondary Clarifiers
6389
Reuse Tank
Depth = 1.8 ft
Lift Station
Depth = 3.8 ft
6281
6224
Direction of Flow
East Salitrillo Creek
Outfall
6165

Salitrillo WWTP Expansion
Figure 01 - 100-yr Corrected Model Inundation with Rocket Lane Improvements

0 100
SCALE IN FEET

HEC-RAS River: EastSalitrillo Reach: 1 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	9037	0.2%	Mitigated	12780.00	648.03	658.01		658.54	0.004628	7.98	2259.80	508.54	0.49
1	9037	0.2%	Mitigated Rocket Lane	12780.00	648.03	658.00		658.53	0.004671	8.01	2253.00	508.36	0.49
1	8787	1%	Corrected	10580.00	646.34	656.07	655.28	656.62	0.005188	8.08	2027.55	628.90	0.52
1	8787	1%	Proposed	10580.00	646.34	656.17	655.28	656.68	0.004748	7.80	2090.25	630.58	0.50
1	8787	1%	Corrected Rocket Lane	10580.00	646.34	655.98	655.28	656.57	0.005620	8.35	1972.32	627.23	0.54
1	8787	1%	Proposed Rocket Lane	10580.00	646.34	656.00	655.28	656.58	0.005527	8.29	1983.73	627.57	0.54
1	8787	1%	Mitigated	10580.00	646.34	656.08	655.28	656.62	0.005152	8.06	2032.43	629.04	0.52
1	8787	1%	Mitigated Rocket Lane	10580.00	646.34	655.96	655.28	656.55	0.005729	8.41	1959.26	626.85	0.54
1	8787	0.2%	Corrected	14368.00	646.34	657.04	655.79	657.58	0.004351	8.02	2645.30	657.71	0.49
1	8787	0.2%	Proposed	14368.00	646.34	657.12	655.79	657.64	0.004088	7.83	2701.26	661.46	0.47
1	8787	0.2%	Corrected Rocket Lane	14368.00	646.34	656.93	655.79	657.51	0.004710	8.28	2575.84	653.36	0.50
1	8787	0.2%	Proposed Rocket Lane	14368.00	646.34	656.96	655.79	657.53	0.004629	8.22	2590.81	654.31	0.50
1	8787	0.2%	Mitigated	14368.00	646.34	656.99	655.79	657.55	0.004505	8.13	2614.64	655.80	0.49
1	8787	0.2%	Mitigated Rocket Lane	14368.00	646.34	656.93	655.79	657.51	0.004709	8.28	2576.04	653.37	0.50
1	8236	1%	Corrected	10580.00	644.31	655.06	652.02	655.27	0.001595	5.15	3050.87	613.95	0.30
1	8236	1%	Proposed	10580.00	644.31	655.29	652.02	655.48	0.001397	4.90	3188.35	627.99	0.28
1	8236	1%	Corrected Rocket Lane	10580.00	644.31	654.81	652.02	655.04	0.001876	5.48	2895.28	604.62	0.32
1	8236	1%	Proposed Rocket Lane	10580.00	644.31	654.87	652.02	655.09	0.001806	5.40	2931.03	606.77	0.32
1	8236	1%	Mitigated	10580.00	644.31	655.08	652.02	655.29	0.001576	5.13	3062.74	614.72	0.30
1	8236	1%	Mitigated Rocket Lane	10580.00	644.31	654.73	652.02	654.97	0.001963	5.57	2852.08	601.04	0.33
1	8236	0.2%	Corrected	14368.00	644.31	656.04	652.62	656.30	0.001693	5.67	3667.27	675.31	0.31
1	8236	0.2%	Proposed	14368.00	644.31	656.21	652.62	656.45	0.001543	5.48	3782.44	686.56	0.30
1	8236	0.2%	Corrected Rocket Lane	14368.00	644.31	655.79	652.62	656.07	0.001942	5.98	3504.97	659.20	0.33
1	8236	0.2%	Proposed Rocket Lane	14368.00	644.31	655.85	652.62	656.12	0.001880	5.90	3542.39	662.61	0.33
1	8236	0.2%	Mitigated	14368.00	644.31	655.93	652.62	656.20	0.001792	5.80	3598.86	669.99	0.32
1	8236	0.2%	Mitigated Rocket Lane	14368.00	644.31	655.79	652.62	656.07	0.001942	5.98	3505.45	659.24	0.33
1	7768	1%	Corrected	10580.00	641.45	654.69		654.89	0.001119	5.03	3279.74	638.02	0.26
1	7768	1%	Proposed	10580.00	641.45	654.97		655.15	0.000954	4.72	3461.12	647.92	0.24
1	7768	1%	Corrected Rocket Lane	10580.00	641.45	654.35		654.57	0.001373	5.46	3061.64	630.80	0.29
1	7768	1%	Proposed Rocket Lane	10580.00	641.45	654.43		654.65	0.001306	5.35	3113.39	631.95	0.28
1	7768	1%	Mitigated	10580.00	641.45	654.72		654.91	0.001103	5.00	3295.79	639.22	0.26
1	7768	1%	Mitigated Rocket Lane	10580.00	641.45	654.25		654.48	0.001462	5.60	2997.64	629.47	0.29
1	7768	0.2%	Corrected	14368.00	641.45	655.64		655.89	0.001236	5.57	3900.65	669.22	0.28
1	7768	0.2%	Proposed	14368.00	641.45	655.86		656.08	0.001109	5.33	4045.83	683.21	0.26
1	7768	0.2%	Corrected Rocket Lane	14368.00	641.45	655.32		655.59	0.001460	5.95	3687.03	658.74	0.30
1	7768	0.2%	Proposed Rocket Lane	14368.00	641.45	655.40		655.66	0.001402	5.85	3737.60	661.75	0.29
1	7768	0.2%	Mitigated	14368.00	641.45	655.51		655.77	0.001323	5.72	3812.36	665.24	0.29
1	7768	0.2%	Mitigated Rocket Lane	14368.00	641.45	655.32		655.60	0.001459	5.94	3687.71	658.79	0.30
1	7577	1%	Corrected	10580.00	642.97	654.54		654.68	0.000865	4.14	3712.01	735.28	0.23
1	7577	1%	Proposed	10580.00	642.97	654.85		654.97	0.000729	3.87	3939.18	748.09	0.21
1	7577	1%	Corrected Rocket Lane	10580.00	642.97	654.15		654.32	0.001093	4.54	3428.76	729.24	0.25
1	7577	1%	Proposed Rocket Lane	10580.00	642.97	654.24		654.41	0.001032	4.44	3496.89	731.37	0.25
1	7577	1%	Mitigated	10580.00	642.97	654.57		654.71	0.000851	4.11	3732.44	735.76	0.22
1	7577	1%	Mitigated Rocket Lane	10580.00	642.97	654.03		654.21	0.001175	4.67	3343.91	724.17	0.26
1	7577	0.2%	Corrected	14368.00	642.97	655.47		655.66	0.000955	4.61	4415.09	771.36	0.24
1	7577	0.2%	Proposed	14368.00	642.97	655.71		655.88	0.000845	4.39	4598.20	785.54	0.23
1	7577	0.2%	Corrected Rocket Lane	14368.00	642.97	655.12		655.33	0.001157	4.96	4142.18	752.70	0.26
1	7577	0.2%	Proposed Rocket Lane	14368.00	642.97	655.20		655.41	0.001104	4.87	4207.33	753.79	0.26
1	7577	0.2%	Mitigated	14368.00	642.97	655.33		655.52	0.001032	4.75	4302.67	760.78	0.25
1	7577	0.2%	Mitigated Rocket Lane	14368.00	642.97	655.12		655.33	0.001156	4.96	4143.01	752.71	0.26
1	7156	1%	Corrected	10580.00	640.36	653.00	649.57	653.11	0.000463	3.46	4898.89	1020.03	0.18
1	7156	1%	Proposed	10580.00	640.36	653.69	649.57	653.77	0.000324	3.01	5625.10	1081.66	0.16
1	7156	1%	Corrected Rocket Lane	10580.00	639.60	652.25	646.88	652.42	0.000550	4.02	4354.72	980.62	0.20
1	7156	1%	Proposed Rocket Lane	10580.00	639.60	652.60	646.88	652.73	0.000457	3.73	4694.11	1000.33	0.19
1	7156	1%	Mitigated	10580.00	639.60	653.62	646.93	653.69	0.000221	2.73	6267.38	1076.73	0.13
1	7156	1%	Mitigated Rocket Lane	10580.00	639.60	652.54	646.93	652.64	0.000368	3.34	5153.39	998.59	0.17
1	7156	0.2%	Corrected	14368.00	640.36	653.51	650.42	653.67	0.000656	4.24	5432.49	1069.14	0.22
1	7156	0.2%	Proposed	14368.00	640.36	654.18	650.42	654.30	0.000470	3.73	6164.31	1124.44	0.19
1	7156	0.2%	Corrected Rocket Lane	14368.00	639.60	652.63	649.76	652.86	0.000829	5.03	4726.49	1001.35	0.25
1	7156	0.2%	Proposed Rocket Lane	14368.00	639.60	653.11	649.76	653.29	0.000649	4.57	5210.51	1028.87	0.23
1	7156	0.2%	Mitigated	14368.00	639.60	653.95	648.25	654.06	0.000352	3.51	6627.72	1105.54	0.17
1	7156	0.2%	Mitigated Rocket Lane	14368.00	639.60	653.45	648.25	653.58	0.000440	3.83	6083.86	1061.43	0.19
1	7121		Bridge										
1	7066	1%	Corrected	10580.00	639.84	651.84	649.58	652.09	0.001400	5.28	3650.30	1006.63	0.29
1	7066	1%	Proposed	10580.00	639.84	651.90	648.62	652.30	0.001918	6.20	2771.31	633.02	0.34
1	7066	1%	Corrected Rocket Lane	10580.00	639.60	651.81	647.21	652.05	0.001100	5.08	3767.34	1002.36	0.26
1	7066	1%	Proposed Rocket Lane	10580.00	639.60	651.88	647.21	652.25	0.001428	5.81	2913.29	632.81	0.30
1	7066	1%	Mitigated	10580.00	639.60	651.64	646.92	651.81	0.000745	4.14	3857.09	619.69	0.21
1	7066	1%	Mitigated Rocket Lane	10580.00	639.60	651.64	646.92	651.81	0.000745	4.14	3857.09	619.69	0.21
1	7066	0.2%	Corrected	14368.00	639.84	651.66	650.31	652.16	0.002882	7.49	3465.30	980.38	0.41
1	7066	0.2%	Proposed	14368.00	639.84	651.64	650.25	652.46	0.004047	8.86	2609.70	620.13	0.49
1	7066	0.2%	Corrected Rocket Lane	14368.00	639.60	651.63	649.66	652.13	0.002237	7.17	3588.74	975.99	0.37
1	7066	0.2%	Proposed Rocket Lane	14368.00	639.60	651.70	649.69	652.43	0.002864	8.15	2797.10	624.60	0.42
1	7066	0.2%	Mitigated	14368.00	639.60	653.28	648.31	653.48	0.000731	4.47	4937.39	689.34	0.22
1	7066	0.2%	Mitigated Rocket Lane	14368.00	639.60	653.28	648.31	653.48	0.000731	4.47	4937.39	689.34	0.22
1	6994	1%	Corrected	10580.00	640.44	649.62	649.62	651.41	0.010040	11.97	1237.99	637.30	0.74
1	6994	1%	Proposed	10580.00	640.42	649.62	649.39	651.56	0.010519	12.25	1108.24	464.45	0.76

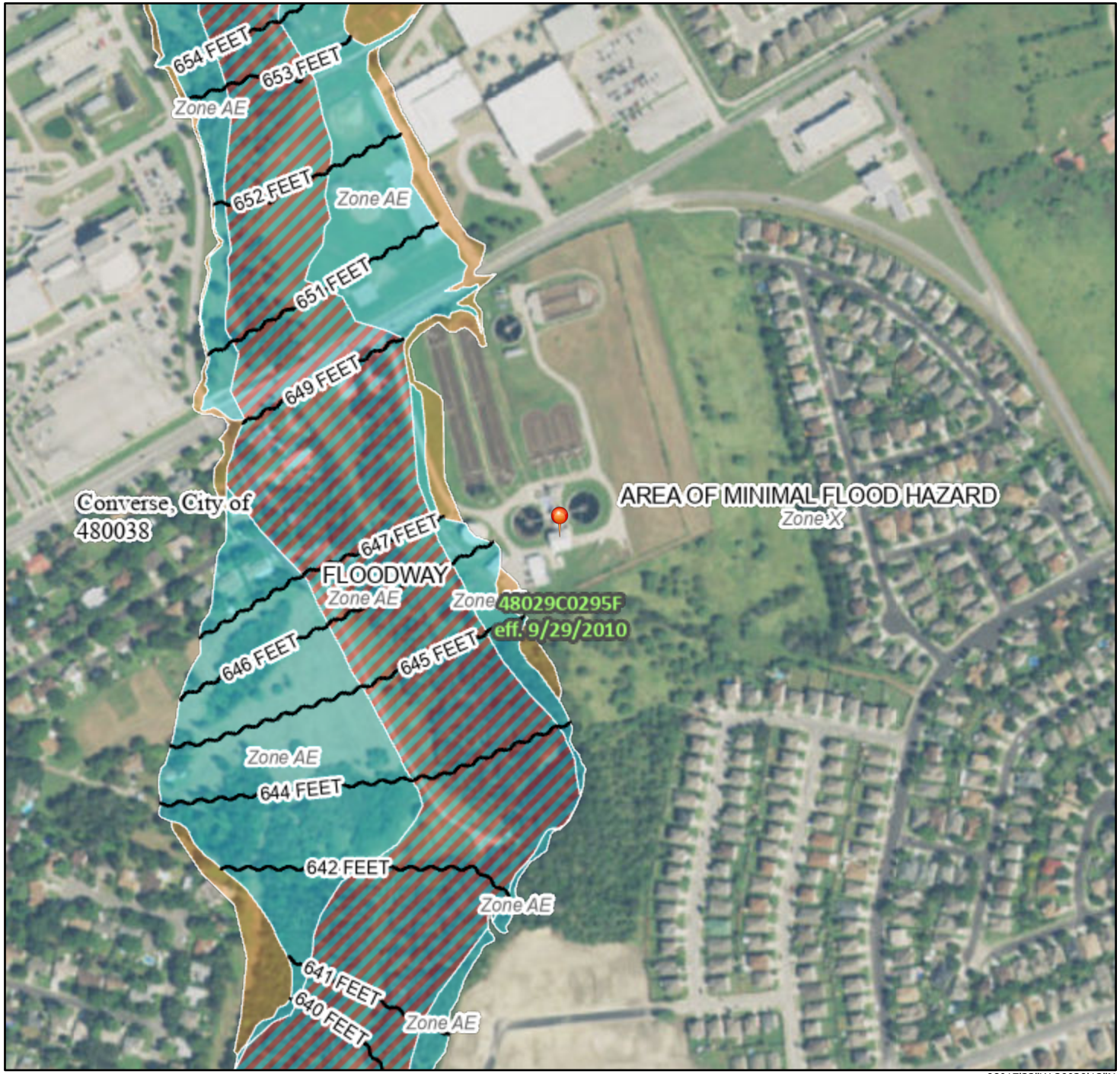
HEC-RAS River: EastSalitrillo Reach: 1 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	6994	1%	Corrected Rocket Lane	10580.00	640.44	649.62	649.62	651.41	0.010040	11.97	1237.99	637.30	0.74
1	6994	1%	Proposed Rocket Lane	10580.00	640.44	649.63	649.40	651.56	0.010503	12.25	1108.84	464.49	0.76
1	6994	1%	Mitigated	10580.00	640.44	649.38	648.99	651.18	0.010414	11.95	1128.34	460.27	0.75
1	6994	1%	Mitigated Rocket Lane	10580.00	640.44	649.38	648.99	651.18	0.010414	11.95	1128.34	460.27	0.75
1	6994	0.2%	Corrected	14368.00	640.44	651.10	649.94	651.83	0.004647	9.11	3150.82	992.05	0.52
1	6994	0.2%	Proposed	14368.00	640.42	651.18	649.94	652.10	0.005333	9.80	2639.02	655.87	0.56
1	6994	0.2%	Corrected Rocket Lane	14368.00	640.44	651.10	649.94	651.83	0.004647	9.11	3150.82	992.05	0.52
1	6994	0.2%	Proposed Rocket Lane	14368.00	640.44	651.18	649.94	652.10	0.005322	9.80	2641.27	655.91	0.56
1	6994	0.2%	Mitigated	14368.00	640.44	649.97	649.94	652.60	0.014132	14.60	1264.43	583.16	0.88
1	6994	0.2%	Mitigated Rocket Lane	14368.00	640.44	649.97	649.94	652.60	0.014132	14.60	1264.43	583.16	0.88
1	6899	1%	Corrected	10580.00	640.10	649.70		650.18	0.003196	7.42	2805.73	808.64	0.43
1	6899	1%	Proposed	10580.00	640.10	649.75	648.09	650.26	0.003321	7.59	2664.91	638.74	0.44
1	6899	1%	Corrected Rocket Lane	10580.00	640.10	649.70		650.18	0.003196	7.42	2805.73	808.64	0.43
1	6899	1%	Proposed Rocket Lane	10580.00	640.10	649.75	647.93	650.27	0.003317	7.59	2666.29	638.85	0.44
1	6899	1%	Mitigated	10580.00	640.10	649.65	647.29	650.02	0.002549	6.60	2888.99	637.00	0.38
1	6899	1%	Mitigated Rocket Lane	10580.00	640.10	649.65	647.29	650.02	0.002549	6.60	2888.99	637.00	0.38
1	6899	0.2%	Corrected	14368.00	640.10	650.65		651.15	0.003240	7.97	3654.00	970.33	0.44
1	6899	0.2%	Proposed	14368.00	640.10	650.72	648.92	651.31	0.003551	8.38	3299.23	674.51	0.46
1	6899	0.2%	Corrected Rocket Lane	14368.00	640.10	650.65		651.15	0.003240	7.97	3654.00	970.33	0.44
1	6899	0.2%	Proposed Rocket Lane	14368.00	640.10	650.73	648.90	651.31	0.003543	8.37	3302.01	674.47	0.46
1	6899	0.2%	Mitigated	14368.00	640.10	650.63	648.09	651.08	0.002823	7.43	3524.80	672.87	0.41
1	6899	0.2%	Mitigated Rocket Lane	14368.00	640.10	650.63	648.09	651.08	0.002823	7.43	3524.80	672.87	0.41
1	6834	1%	Corrected	10580.00	639.03	649.66	647.54	649.96	0.002225	6.19	3376.36	806.80	0.36
1	6834	1%	Proposed	10580.00	639.03	649.70	647.56	650.03	0.002346	6.38	3206.78	683.81	0.37
1	6834	1%	Corrected Rocket Lane	10580.00	639.03	649.66	647.54	649.96	0.002225	6.19	3376.36	806.80	0.36
1	6834	1%	Proposed Rocket Lane	10580.00	639.03	649.70	647.54	650.03	0.002343	6.37	3208.34	683.82	0.37
1	6834	1%	Mitigated	10580.00	639.03	649.58	646.52	649.85	0.001971	5.80	3400.09	682.65	0.34
1	6834	1%	Mitigated Rocket Lane	10580.00	639.03	649.58	646.52	649.85	0.001971	5.80	3400.09	682.65	0.34
1	6834	0.2%	Corrected	14368.00	639.03	650.58	648.33	650.92	0.002366	6.80	4254.08	1023.46	0.37
1	6834	0.2%	Proposed	14368.00	639.03	650.66	648.24	651.05	0.002614	7.18	3886.16	727.12	0.39
1	6834	0.2%	Corrected Rocket Lane	14368.00	639.03	650.58	648.33	650.92	0.002366	6.80	4254.08	1023.46	0.37
1	6834	0.2%	Proposed Rocket Lane	14368.00	639.03	650.66	648.25	651.06	0.002608	7.18	3889.34	727.13	0.39
1	6834	0.2%	Mitigated	14368.00	639.03	650.55	647.54	650.88	0.002238	6.60	4083.54	726.53	0.36
1	6834	0.2%	Mitigated Rocket Lane	14368.00	639.03	650.55	647.54	650.88	0.002238	6.60	4083.54	726.53	0.36
1	6773	1%	Corrected	10580.00	637.77	648.23		648.85	0.004625	8.41	2589.41	736.04	0.51
1	6773	1%	Proposed	10580.00	637.77	648.35	647.18	648.93	0.004280	8.16	2608.33	655.79	0.49
1	6773	1%	Corrected Rocket Lane	10580.00	637.77	648.23		648.85	0.004625	8.41	2589.41	736.04	0.51
1	6773	1%	Proposed Rocket Lane	10580.00	637.77	648.36	647.18	648.93	0.004257	8.15	2613.64	655.84	0.49
1	6773	1%	Mitigated	10580.00	637.77	648.06	647.18	648.76	0.005195	8.80	2421.90	653.50	0.53
1	6773	1%	Mitigated Rocket Lane	10580.00	637.77	648.06	647.18	648.76	0.005195	8.80	2421.90	653.50	0.53
1	6773	0.2%	Corrected	14368.00	637.77	649.08		649.75	0.004830	9.15	3228.72	778.43	0.53
1	6773	0.2%	Proposed	14368.00	637.77	649.10	647.85	649.80	0.004959	9.28	3103.08	678.02	0.53
1	6773	0.2%	Corrected Rocket Lane	14368.00	637.77	649.08		649.75	0.004830	9.15	3228.72	778.43	0.53
1	6773	0.2%	Proposed Rocket Lane	14368.00	637.77	649.11	647.84	649.81	0.004922	9.26	3112.55	679.63	0.53
1	6773	0.2%	Mitigated	14368.00	637.77	648.88	647.84	649.67	0.005637	9.74	2956.14	659.22	0.57
1	6773	0.2%	Mitigated Rocket Lane	14368.00	637.77	648.88	647.84	649.67	0.005637	9.74	2956.14	659.22	0.57
1	6635	1%	Corrected	10580.00	636.80	647.59		648.11	0.005713	8.54	2591.55	728.90	0.55
1	6635	1%	Proposed	10580.00	636.80	647.78	646.57	648.25	0.005075	8.18	2695.97	704.47	0.52
1	6635	1%	Corrected Rocket Lane	10580.00	636.80	647.59		648.11	0.005713	8.54	2591.55	728.90	0.55
1	6635	1%	Proposed Rocket Lane	10580.00	636.80	647.79	646.57	648.26	0.005024	8.15	2705.73	704.68	0.52
1	6635	1%	Mitigated	10580.00	636.80	647.47	646.33	647.96	0.005464	8.27	2633.05	686.57	0.54
1	6635	1%	Mitigated Rocket Lane	10580.00	636.80	647.47	646.33	647.96	0.005464	8.27	2633.05	686.57	0.54
1	6635	0.2%	Corrected	14368.00	636.80	648.35		648.97	0.006321	9.58	3194.15	840.40	0.59
1	6635	0.2%	Proposed	14368.00	636.80	648.36	647.12	649.01	0.006432	9.68	3127.25	755.96	0.59
1	6635	0.2%	Corrected Rocket Lane	14368.00	636.80	648.35		648.97	0.006321	9.58	3194.15	840.40	0.59
1	6635	0.2%	Proposed Rocket Lane	14368.00	636.80	648.39	647.12	649.03	0.006307	9.60	3148.85	756.27	0.59
1	6635	0.2%	Mitigated	14368.00	636.80	648.16	646.86	648.78	0.006519	9.58	3120.00	743.57	0.59
1	6635	0.2%	Mitigated Rocket Lane	14368.00	636.80	648.16	646.86	648.78	0.006519	9.58	3120.00	743.57	0.59
1	6487	1%	Corrected	10580.00	636.72	646.94		647.39	0.003974	7.96	2645.75	785.24	0.47
1	6487	1%	Proposed	10580.00	636.72	647.29	645.39	647.65	0.003014	7.12	2864.52	739.91	0.41
1	6487	1%	Corrected Rocket Lane	10580.00	636.72	646.94		647.39	0.003974	7.96	2645.75	785.24	0.47
1	6487	1%	Proposed Rocket Lane	10580.00	636.72	647.31	645.39	647.66	0.002981	7.09	2878.91	740.05	0.41
1	6487	1%	Mitigated	10580.00	636.72	646.65	645.39	647.19	0.004846	8.60	2437.00	730.79	0.52
1	6487	1%	Mitigated Rocket Lane	10580.00	636.72	646.65	645.39	647.19	0.004846	8.60	2437.00	730.79	0.52
1	6487	0.2%	Corrected	14368.00	636.72	647.70		648.19	0.004109	8.55	3252.51	810.65	0.48
1	6487	0.2%	Proposed	14368.00	636.72	647.71	646.49	648.21	0.004121	8.57	3172.42	743.42	0.48
1	6487	0.2%	Corrected Rocket Lane	14368.00	636.72	647.70		648.19	0.004109	8.55	3252.51	810.65	0.48
1	6487	0.2%	Proposed Rocket Lane	14368.00	636.72	647.76	646.49	648.25	0.003998	8.47	3208.98	743.84	0.48
1	6487	0.2%	Mitigated	14368.00	636.72	647.19	646.42	647.86	0.005791	9.79	2837.66	739.21	0.57
1	6487	0.2%	Mitigated Rocket Lane	14368.00	636.72	647.19	646.42	647.86	0.005791	9.79	2837.66	739.21	0.57
1	6389	1%	Corrected	10580.00	636.32	646.12		646.52	0.004305	8.06	3043.98	974.16	0.49
1	6389	1%	Proposed	10580.00	636.32	646.75	645.07	647.04	0.002664	6.65	3429.78	870.59	0.39
1	6389	1%	Corrected Rocket Lane	10580.00	636.32	646.12		646.52	0.004305	8.06	3043.98	974.16	0.49
1	6389	1%	Proposed Rocket Lane	10580.00	636.32	646.74	645.06	647.05	0.002801	6.81	3348.81	850.46	0.40
1	6389	1%	Mitigated	10580.00	636.32	646.11	643.92	646.37	0.002711	6.39	3433.60	820.40	0.38
1	6389	1%	Mitigated Rocket Lane	10580.00	636.32	646.11	643.92	646.37	0.002711	6.39	3433.60	820.40	0.38
1	6389	0.2%	Corrected	14368.00	636.32	646.86		647.28	0.004488	8.69	3789.35	1051.71	0.50
1	6389	0.2%	Proposed	14368.00	636.32	646.73	645.56	647.27	0.004992	9.08	3410.92	870.28	0.53
1	6389	0.2%	Corrected Rocket Lane	14368.00	636.32	646.86		647.28	0.004488	8.69	3789.35	1051.71	0.50

National Flood Hazard Layer FIRMette

FEMA

98°18'11"W 29°30'44"N



98°17'33"W 29°30'12"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/7/2021 at 5:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 10, 2022

Kendall Wayne King, P.E.
Freese and Nichols, Inc.
9601 McAallister Freeway, Suite 1008
San Antonio, Texas 78216

Re: San Antonio River Authority
Salitrillo Wastewater Treatmetn Plant Expansion Project
Permit No. WQ0010749-001
WWPR Log No. 1221/015
CN600790620, RN101514560
Bexar County

Dear Mr. King:

On December 3, 2021, TCEQ received the project summary transmittal letter dated November 30, 2021 detailing an expansion project at the San Antonio River Authority Salitrillo wastewater treatment plant in Beaxar County, Texas. This expansion project is designed to bring the treatable average daily flow to the current permitted final phase of 7.33 MGD with a corresponding peak daily flow of 18.33 MGD. The plant must produce an effluent to meet permitted effluent concentration limits of 7 mg/l for $CBOD_5$, 15 mg/l for TSS, 2 mg/l for NH_3-N, and 126 cfu/100 ml for E. coli while maintaining a minimum dissolved oxygen concentration of 6.0 mg/l. The specific details within the scope of the expansion project are listed below.

The treatment plant currently consists of what is labeled as the upper plant and the lower plant. After this expansion project the influent treatable flow is to be split between the upper and lower plants for treatment in accordance with the values in the following table.

Plant	Treatable Average Daily Flow (MGD)	Peak Daily Flow (MGD)
Upper (31%)	2.30	4.23
Lower (69%)	5.03	14.10

printed on recycled paper using vegetable based ink

The upper plant consists of:

- 1 aeration carousel treatment train; carousel 17 , volume of 1,400,000 gallons

The lower plant consists of:

- 2 oxidation ditches; ditches 27 and 37; each with a volume of 1,000,000 gallons
- 2 aeration carousels; carousel 47 and 57; each with a volume of 920,000 gallons
- Oxidation ditch handle 40.6 % of flow while aeration carousels handle 59.4% of flow

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems.

The detailed work efforts of the expansion project include the following items:

Upper Plant

- Upper Plant Lift Station
  - Decommissioning the 25, 25 and 40 HP motors
  - Installing 3-50 HP motors; 2 duty, 1 standby
  - 2.3 MGD per pump motor, 4.23 MGD firm capacity
  - Associated belt sheave replacement
  - Miscellaneous piping and valve improvements
- Aeration Carousel
  - Replacement and upsizing of 3 mechanical aerators
  - Replacing the 3 60 HP single speed aerators with 3 100 HP aerators with VFDs
- UV disinfection equipment
  - Removing existing upper plant UV disinfection equipment
  - Installing new combined flow UV disinfection basin to treat upper and lower plant
- Post Aeration
  - Removing existing post aeration equipment
  - Installing a new combined upper and lower flow post aeration
- The current expansion project will not include any changes to the headworks fine screen unit or 90 ft. secondary clarifier which are part of the existing upper plant treatment train
-

Lower Plant

- Lower Plant Lift Station
  - Replacing existing single speed 60 HP 54-inch screw pump, currently out of service
  - Installing in-kind replacement; yielding 3 serviceable pumps
  - Needed to maintain lower plant firm capacity of 14.1 MGD (2 duty, 1 standby)

Lower Plant con't

- Aeration Carousels
  - Replacement and upsizing the 4 existing mechanical aerators
  - Upsize the aerators from 60 HP to 100 HP with VFD
- Secondary Clarification
  - Install 2 new 100 ft. diameter clarifiers, 14 ft. SWD
  - New RAS/WAS pump station
- UV disinfection equipment
  - Removing existing upper plant UV disinfection equipment
  - Installing new combined UV disinfection basin to treat upper and lower plant flows
- Post Aeration
  - Removing existing post aeration equipment
  - Installing a new combined upper and lower flow post aeration
- Non-potable Water Pumps (NPW)
  - Remove exist lower plant NPW pumps
- The current expansion project will not include any changes to the headworks mechanical screen, headworks grit removal system, either of the 2 oxidation ditches, or the 2 existing 100 ft. diameter secondary clarifiers which are part of the existing upper plant treatment

Combined Processes (treat flows from both upper and lower plants)

- UV disinfection
  - New combined UV system sized to treat the combine 7.33 MGD ADF and 18.33 MGD PDF, Trojan UV Signa System
  - 2 channels, 3 UV bulb banks per channel, 12 UV lamps per bank
  - Lamp output 30 mJ/cm^2 at peak flow of 18.33 MGD, 1000-watt LPHO
  - One redundant bank per channel
- Post Aeration
  - Install combined post aeration basin
  - Install 2 rotary lobe blowers and retrievable fine bubble diffusers
  - Will achieve 6.0 mg/l dissolved oxygen
- Non-potable Water (NPW) Pumps
  - Install new NPW pumps system on combined process flow downstream of proposed new UV system
  - Reconnect lower plant distribution system
  - Install new NPW distribution system to upper plant
- Effluent Flume (new)
  - Abandon existing effluent flume
  - Install new effluent flume at new combined UV disinfection/Post Aeration/Effluent pump structure

Combined Processes cont'd

- Floodplain Protection
  - Install effluent pump station 4 submersible 40 HP single speed pumps (3 duty, 1 standby)
  - firm capacity 18.99 MGD
  - Discharge header for each pump to a raised channel
- Reuse Pumps
  - Install new 6-inch combined suction piping from proposed diversion manhole on 36-inch effluent line
- Plant Drain Lift Station
  - Install new 6 ft. diameter plant drain lift station
  - Pumps drain flow from proposed secondary clarifiers, proposed UV disinfection system, future backwash filters, and proposed secondary clarifier sump lines back to lower plant influent lift station/sludge vault
- Installation of various site process piping, and site electrical improvements as needed to accommodate the process upgrades

The submitted summary transmittal letter also contained 2 requests for variances to 30 TAC Chapter 217 requirements.

- The first requested variance was to 30 TAC 217.328(c) which states a wastewater treatment plant must be accessible by truck during all weather conditions and must have at least one all-weather access road with the driving surface situated above the 100-year flood plain. Currently there is one existing all-weather access road for the plant, the driving surface is currently situated below the 100-year flood plain. The San Antonio River Authority is processing updates to the East Salitrillo Creek Watershed to incorporate Atlas-14 rainfall data and is requesting to defer implementing an improvement to raise the driving surface of the access road and not including this task within the scope of this expansion project and shifting it to a subsequent project in the next 5 years once the models are updated if the results of the updated models show the existing plant access road remains lying below the updated 100-year flood plain level. The existing plant access road is the original access road built in 1973 which has been raised approximately 1 foot in 1982 as part of an expansion project completed at that time. Possibilities exist where a 350 ft. portion of the road would be anywhere form 0.5 ft. to 3.0 ft. below the 100-year flood plain; this would probably mean that a second or new access road would be needed. The work needed for this effort would not allow for the completion of all the work needed to allow for the expansion of the treatment trains to treat the 7.33 MGD ADF and 18.33 MGD PDF flows. The River Authority is requesting to phase the completion of this second access road in the next 5 years which would allow for the design of the access road to account for the updated rain fall data, flood plain level updates and any changes to existing roads from which the access road would

connect. **Given the reasons provide, TCEQ is conditionally granting the requested variance. The conditions of granting this variance are:**

- **on a yearly basis the River Authority must document the progress of the modelling with results, any pertinent changes to roads leading to the access and the design of new access road. This documentation should be maintained at both the River Authority office and on-site at the wastewater plant and made available on request to any TCEQ personnel**
- **The site must be safely accessible to staff during any storm causing the existing access road to be non-navigable**

- The second requested variance is to 30 TAC 217.61(f)(2) which states "a self- priming pump must use a suction pipe that produces flow with a velocity of at least 3.0 fps but not more than 8.0 fps". The existing 8-inch ductile iron discharging piping at the existing upper plant lift station will produce a maximum velocity of 10.54 fps with the proposed motor upsize at the existing centrifugal pumps. The pump manufacturer has reviewed all pump output data for the designed 8-inch suction pipe with the upsized pump motors and has confirmed the design to be acceptable. **Given that the pump manufacturer confirms proper pump operation within the proposed upper velocity TCEQ is conditionally granting this requested variance for exceeding the upper velocity value without incurring the additional cost of changing the piping from the existing pipes in the lift station.**

The TCEQ review of the submitted project design and summary transmittal letter seems to indicate that with the inclusion of the granted variances the project as submitted meets at least the minimum requirements of 30 TAC Chapter 217: Design Criteria for Wastewater Systems. Given the result of the TCEQ review the project, as submitted, is conditionally approved for completion.

You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.10. Additionally, the engineering report must include all constants, graphs, equations, and calculations needed to show substantial compliance with Chapter 217.

If in the future, additional variances from the Chapter 217 requirements are desired for the project, each variance must be requested in writing by the design engineer. Then, the TCEQ will consider granting a written approval to the variance from the rules for the specific project and the specific circumstances.

Within 60 days of the completion of construction, an appointed engineer shall notify both the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date of completion. The engineer shall also provide written certification that all construction, materials, and equipment were substantially in accordance with the approved project, the rules of the TCEQ, and any change orders filed with the TCEQ. All notifications, certifications, and change orders must include the signed and dated seal of a Professional Engineer licensed in the State of Texas.

Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions, or if we can be of any further assistance, please call me at (512) 239-1372.

Sincerely,

Paul A. Brochi

Paul A. Brochi, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

PAB/tc

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 20

Summary of Agreed Orders

Reference: Domestic Technical Report 1.0

Section 12B

Salitrillo WWTP

WQ0010749-001

San Antonio River Authority

Summary of Agreed Orders

Agreed Order Docket No, 2020-0336-MWD-E

In reference to Agreed Order Docket No. 2020-0336-MWD-E an investigation was conducted on December 12, 2019, due to a pump that lost prime within the Facility's reclaimed water system which caused chlorinated reclaimed water to backflow through the effluent flume and into the discharge channel. The discharge was approximately 3,466,114 gallons of chlorinated reclaimed water, killing approximately 1,028 fish. The discharge was ceased, and the reclaimed water system was temporarily deactivated to ensure that any backflow of chlorinated reclaimed water was diverted to the Facility's headworks for treatment. Affected areas were cleaned and the dead fish were removed and disposed. Due to the Order, a penalty was assessed of $20,000. To offset this penalty, the San Antonio River Authority completed a Supplemental Environmental Project (SEP) as defined in the SEP Agreement on December 21, 2021. The Order assessed on December 15, 2021, will terminate five years from the effective date and remains active.

Agreed Order Docket No. 2021-1395-MWD-E

In reference to Agreed Order Docket No. 2021-1395-MWD-E an investigation was conducted on August 4, 2021, through August 5, 2021, due to a blockage in the collection system which caused an overflow discharge of approximately 20,000 gallons from a manhole located near the intersection of Kitty Hawk Road and Misti Ridge Drive in Converse, TX. The overflow discharged into an unnamed tributary/drainage ditch, killing approximately 23 fish. The discharge was ceased and contaminated water from the discharge was pumped back into a nearby San Antonio River Authority manhole. Affected areas were cleaned and disinfected and the dead fish were removed and disposed. Due to the Order, a penalty was assessed of $12,500. To offset this penalty, the San Antonio River Authority completed a Supplemental Environmental Project (SEP) as defined in the SEP Agreement on October 1, 2022. The Order assessed on January 10, 2024, will terminate five years from the effective date and remains active.

Rainee Trevino

From: Ernest Munoz <emunoz@sariverauthority.org>
Sent: Tuesday, February 18, 2025 10:57 AM
To: Rainee Trevino; Leamon Anderson
Cc: Daniel Flores; Katherine Overstreet
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter
Attachments: Revised Attachment 6_DTR 1.0.pdf; Section 10.pdf; Revised Attachment 4_Salitrillo USGS Map.pdf; Municipal Discharge Renewal Spanish NORI (003).docx; wq0010749001-nod1 (002).pdf

Categories: NOD Response Review

Good morning, Ms. Trevino.

The items listed in the Notice of Deficiency letter sent on February 13, 2025, have been reviewed, revised, and completed. Item 4 of the letter is correct, and the portion of the NORI has been translated into Spanish.

Please respond to this email if there is any additional information you may need.

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

SAN ANTONIO RIVER AUTHORITY

Please consider the environment before printing this email.

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Thursday, February 13, 2025 11:38 AM
To: Leamon Anderson <landerson@sariverauthority.org>
Cc: Ernest Munoz <emunoz@sariverauthority.org>
Subject: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

External Email: Beware of links/attachments.

Rainee Trevino

From: Ernest Munoz <emunoz@sariverauthority.org>
Sent: Wednesday, February 26, 2025 7:28 AM
To: Rainee Trevino; Leamon Anderson
Cc: Daniel Flores; Katherine Overstreet
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

Good morning,

The correct name is Salitrillo Creek.

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: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Tuesday, February 25, 2025 4:15 PM
To: Ernest Munoz <emunoz@sariverauthority.org>; Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>; Katherine Overstreet <koverstreet@sariverauthority.org>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

Good afternoon,

I wanted to clarify the name of the site. Is the correct name “Salatrillo Creek” or “Salitrillo Creek”?

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

From: Rainee Trevino
Sent: Wednesday, February 19, 2025 2:44 PM
To: Ernest Munoz <emunoz@sariverauthority.org>; Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>; Katherine Overstreet <koverstreet@sariverauthority.org>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

Mr. Munoz,

Thanks again for clarifying via phone the phases and flows. This will be fine. All items are now sufficient.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

From: Rainee Trevino
Sent: Wednesday, February 19, 2025 2:19 PM
To: Ernest Munoz <emunoz@sariverauthority.org>; Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>; Katherine Overstreet <koverstreet@sariverauthority.org>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

Good afternoon,

Thank you for your response. I have reviewed the attachments, and all items are now sufficient with the exception for the Technical Report 1.0, Section 1. The revised section submitted is still incorrect. Currently it shows the Interim Phase flow as the Final Phase flow. Please submit a revised Technical Report 1.0 with the correct flow for the Existing/Interim Phase I flow and the Final Phase flow. The deadline for a complete response is 2/27.

Please let me know if you have any questions.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

From: Ernest Munoz <emunoz@sariverauthority.org>
Sent: Tuesday, February 18, 2025 10:57 AM
To: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>; Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>; Katherine Overstreet <koverstreet@sariverauthority.org>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

Good morning, Ms. Trevino.

The items listed in the Notice of Deficiency letter sent on February 13, 2025, have been reviewed, revised, and completed. Item 4 of the letter is correct, and the portion of the NORI has been translated into Spanish.

Please respond to this email if there is any additional information you may need.

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

SAN ANTONIO RIVER AUTHORITY

Please consider the environment before printing this email.

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Thursday, February 13, 2025 11:38 AM
To: Leamon Anderson <landerson@sariverauthority.org>

Cc: Ernest Munoz <emunoz@sariverauthority.org>
Subject: [EXTERNAL] Application to Renew Permit No. WQ0010749001-Notice of Deficiency Letter

External Email: Beware of links/attachments.

Good morning,

The attached Notice of Deficiency letter sent on February 13, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by February 27, 2025.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

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. WQ0010749-001

SOLICITUD. San Antonio River Authority, 100 East Guenther Street, San Antonio, TX 78204, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010749001 (EPA I.D. No. TX0053074) 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 7,330,000 galones por día. La planta está ubicada en 9638 Schaeffer Road, en la ciudad de Converse, en el Condado de Bexar, Texas. La ruta de descarga es del sitio de la planta a una zanja sin nombre, de allí a Salitrillo Creek, de allí a Martinez Creek Soil Convservation Service Dam No. 6A Reservoir, de allí a Salitrillo Creek, de allí a Martinez Creek, de allí a Lower Cibolo Creek. La TCEQ recibió esta solicitud el 4 de febrero, 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la recepción de San Antonio River Authority Utilities Administration Building, 1720 Farm-to-Market Road 1516 North, Converse, en el Condado de Bexar, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.298611,29.508611&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos

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

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

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

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

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

También se puede obtener información adicional 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: 18 de febrero de 2025

Salitrillo Wastewater Discharge Permit Renewal 02/2025
TPDES No. WQ0010749-001 (EPA I.D. TX0053074)

Attachment 4A and 4B

USGS Map and General Location Map

Reference: Supplemental Permit Information Form (SPIF)

TCEQ Form 20971, Item 5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SCHERTZ QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

1 MILE RADIUS

WWTP SITE AND PROPERTY BOUNDARY

POINT OF DISCHARGE

WWTP

DISCHARGE ROUTE

POND

Produced by the United States Geological Survey
Control by USGS and NOS/NOAA

Compiled by Defense Mapping Agency from aerial photographs taken 1952. Revised from aerial photographs taken 1986 and other source data. Field checked 1986. Map edited 1992

North American Datum of 1927 (NAD 27). Projection and 10 000-foot grid ticks: Texas Coordinate System, south central zone (Lambert Conformal Conic). 1000-meter Universal Transverse Mercator grid, zone 14

The difference between NAD 27 and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Red tint indicates areas in which only landmark buildings are shown

Areas covered by dashed light-blue pattern are subject to controlled inundation

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

2998-421

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

SCHERTZ, TEX.
29098-E3-TF-024
1992
DMA 6343 III SE-SERIES V882

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA—1992

0 0.35 0.7 1.4 2.1 2.8 Miles

Original USGS Topographic Map

N W E S

Attachment 4A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MARTINEZ QUADRANGLE
TEXAS–BEXAR CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

DISCHARGE ROUTE

1 MILE RADIUS

PONDS

POND

MARTINEZ DAM 6A

MARTINEZ DAM 3

Martinez Creek Dam No 1

Martinez Creek Dam No 2

Martinez Creek Dam No 3

Martinez Creek Dam No 6-A

Calaveras Creek Dam No 7

Calaveras Creek Dam No 6

Martinez

Escondido

China Grove

Calf Hill

MARTINDALE ARMY AIRFIELD (NATIONAL GUARD)

Produced by the United States Geological Survey

Control by USGS, NOS/NOAA and USCE

Compiled by Defense Mapping Agency from aerial photographs taken 1952. Revised from aerial photographs taken 1986
Field checked 1987. Map edited 1992

North American Datum of 1927 (NAD 27). Projection and 10 000-foot grid ticks: Texas Coordinate System, south central zone (Lambert Conformal Conic). 1000-meter Universal Transverse Mercator grid, zone 14
The difference between NAD 27 and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Red tint indicates areas in which only landmark buildings are shown

Areas covered by dashed light-blue pattern are subject to controlled indundation

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

2998-134

ROAD CLASSIFICATION

MARTINEZ, TEX.
29098-D3-TF-024
1992
DMA 6342 IV NE–SERIES V882

0 0.35 0.7 1.4 2.1 2.8 Miles

Original USGS Topographic Map

N W E S

Attachment 4B

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 42)

A. Existing/Interim I Phase

Design Flow (MGD): 7.33

2-Hr Peak Flow (MGD): 18.33

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): 7.33

2-Hr Peak Flow (MGD): 18.33

Estimated construction start date: N/A Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 08/01/1999

Section 2. Treatment Process (Instructions Page 42)

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

E. Owner of effluent disposal site:

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Converse, TX

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Bexar, Wilson, Karnes and Goliad.

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Click to enter text.

C. County in which the disposal site is located: Click to enter text.

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

Click to enter text.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☐ No

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

☐ Yes ☐ No ☐ Not Applicable

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

Click to enter text.

Good morning,

The attached Notice of Deficiency letter sent on February 13, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by February 27, 2025.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

TPDES PERMIT NO.
WQ0010749001
[For TCEQ office use only - EPA I.D. No. TX0053074]

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

This is a renewal that replaces TPDES Permit No. WQ0010749001 issued on August 11, 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 Street
San Antonio, Texas 78204

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

located at 9638 Schaefer Road, in the City of Converse, Bexar County, Texas 78109

to an unnamed ditch, thence to Salitrillo Creek, thence to Martinez Creek Soil Conservation Service Dam No. 6A Reservoir, thence to Salitrillo Creek, thence 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 REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 7.33 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,726 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (428)	12	22	32	Five/week	Composite
Total Suspended Solids	15 (917)	25	40	60	Five/week	Composite
Ammonia Nitrogen	2 (122)	5	10	15	Five/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.

    b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

    d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

    e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

    f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

i. date, time and place of sample or measurement;

ii. identity of individual who collected the sample or made the measurement.

iii. date and time of analysis;

iv. identity of the individual and laboratory who performed the analysis;

v. the technique or method of analysis; and

vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.

      iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. One hundred micrograms per liter (100 μg/L);

   ii. Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. Five hundred micrograms per liter (500 μg/L);

   ii. One milligram per liter (1 mg/L) for antimony;

   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

10. Signatories to Reports

    All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

    a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;

    b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

    c. For the purpose of this paragraph, adequate notice shall include information on:

       i. The quality and quantity of effluent introduced into the POTW; and

       ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

    a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

    b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

        i. Violation of any terms or conditions of this permit;

        ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

        iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

    c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

    a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

    b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

    c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

    d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

    e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

    f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

   i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or

   ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

   iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

   This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

   A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

   The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

    The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;

       ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

       iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Domestic Permits Team, Domestic Wastewater 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 Domestic Permits Team, Domestic Wastewater 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. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

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

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

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

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

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

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

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

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

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

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted

for 30 days after application of biosolids.

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids

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

Alternative 9 - i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

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

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

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal

coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

Pollutant	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

    a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

    b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

    c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

    a. The location, by street address, and specific latitude and longitude, of each land application site.

    b. The approximate time period bulk biosolids will be applied to the site.

    c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

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

D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

E. Record Keeping Requirements

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

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

2. The description (including procedures followed and results) of all TCLP tests performed.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

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

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

3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

4. For all newly constructed clarifier, UV disinfection chamber, Post aeration basin and Re-lift pump stations and other units, the permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

6. 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 Domestic Wastewater 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 Domestic Wastewater 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.

7. Plans and specifications have been approved for the 7.33 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems.

A summary transmittal approval letter was issued on March 10, 2022 (Log No. 1221/015). A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

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 Domestic Wastewater 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 occurs 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 6%, 8%, 11%, 15%, and 20% effluent. The critical dilution, defined as 15% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, chemical-specific effluent limits, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

   e. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee will resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less 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 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 compared to the survival, reproduction, or growth of the test organism in the control.

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected as close to the point of discharge as possible but 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 “0.”

8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.

9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.

10) For the fathead minnow, Parameter TWP6C, enter a “1” if the NOEC for growth is less than the critical dilution; otherwise, enter a “0.”

11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.

12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a test demonstrates a significant effect at the critical dilution. Significant effect and significant lethality were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction of the test organism in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining

consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate.

However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, to require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

		Date Time		Date Time
Dates and Times Composites Collected	No. 1 FROM:	_____	TO:	_____
	No. 2 FROM:	_____	TO:	_____
	No. 3 FROM:	_____	TO:	_____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving Water _____ Synthetic Dilution Water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

	Percent effluent (%)					
REP	0%	6%	8%	11%	15%	20%
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 (15%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	6%	8%	11%	15%	20%
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 (15%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving Water _____ Synthetic Dilution Water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
6%							
8%							
11%							
15%							
20%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION (15%): _____ 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%									
6%									
8%									
11%									
15%									
20%									

* 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 (p=0.05) than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (15%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. 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 the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if

the mean survival is less than or equal to 50%, enter "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration after 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 item 1.b. As 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, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE Activities Reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. 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.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall

comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementing corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

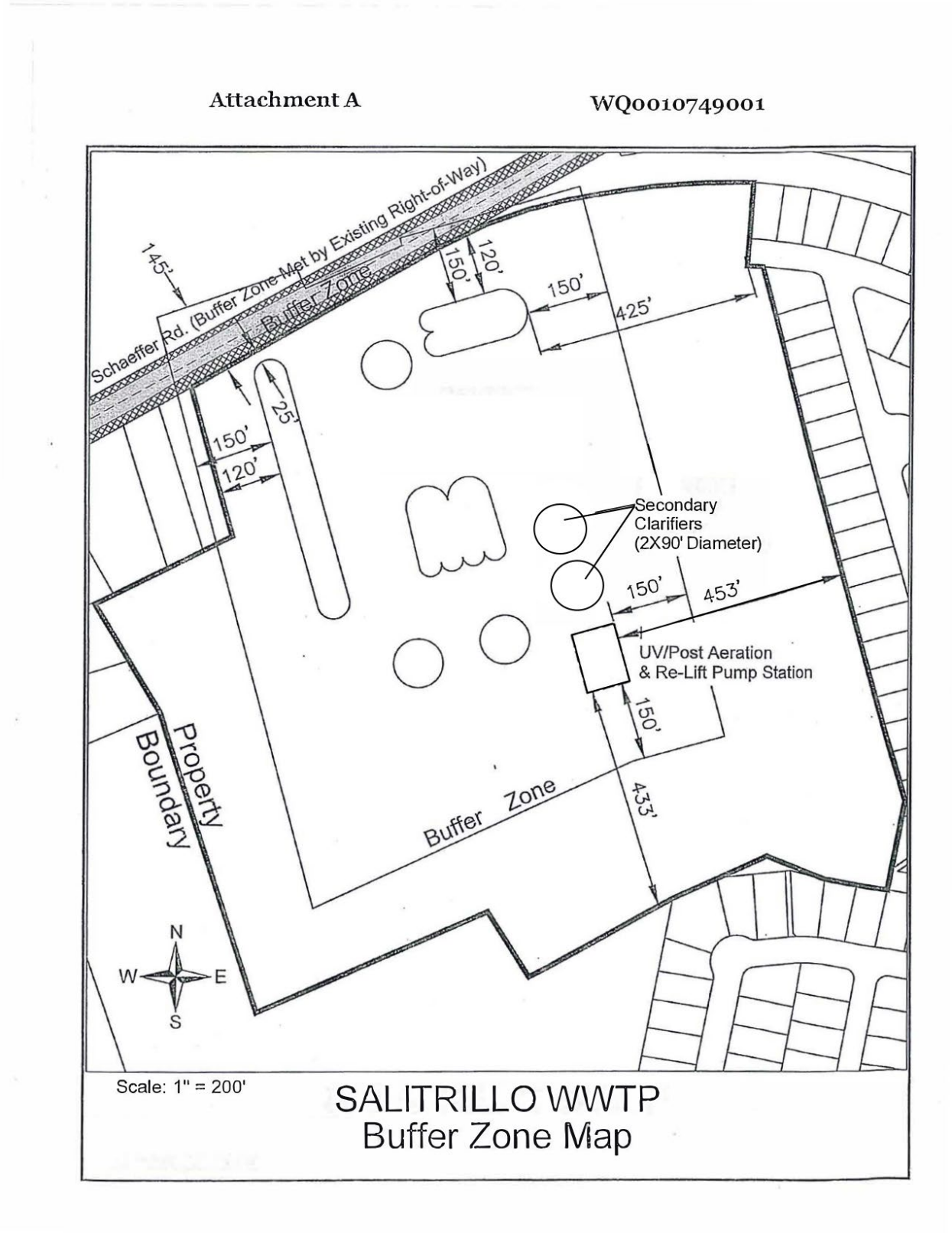
PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

Attachment A : Buffer Zone Map



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010749001, EPA I.D. No. TX0053074, 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 Street San Antonio, Texas 78204
Prepared By:	Sahil Hudda Domestic Permits Team Domestic Wastewater Section (MC 148) Water Quality Division (512) 239-4748
Date:	September 3, 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 7.33 million gallons per day (MGD). The existing wastewater treatment facility serves the Cities of Converse, Universal City, Live Oak and portions of East Bexar County..

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 9638 Schaefer Road, in the City of Converse, Bexar County, Texas 78109.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.507145 N	98.298655 W

The treated effluent is discharged to an unnamed ditch, thence to Salitrillo Creek, thence to Martinez Creek Soil Conservation Service Dam No. 6A Reservoir, thence to Salitrillo Creek, thence to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are minimal aquatic

life use for the unnamed ditch and Salitrillo Creek(upstream and downstream of reservoir) and high aquatic life use for the Martinez Creek Soil Conservation Service Dam No. 6A Reservoir. The designated uses for Segment No. 1902 are primary contact recreation and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Salitrillo Creek Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include two mechanical bar screens, a grit chamber, three aeration basins, two oxidation ditches, five clarifiers, a belt filter press, five Parshall flumes and an ultraviolet light (UV) disinfection chamber. The facility is in operation.

The draft permit 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 Salitrillo 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, the WWTP receives process wastewater from two significant industrial user (SIU). The process wastewater flow from the SIU contributes less than 0.00116% of the WWTP current maximum hydraulic capacity of the plant, which does not meet the criteria to require pretreatment program development.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period from December 2022 through December 2024.The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli (E. coli)* in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	4.51
$CBOD_5$, mg/l	2.1
TSS, mg/l	1.4
NH_3-N, mg/l	0.75
E. coli CFU or MPN per 100 ml	3

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 7.33 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,726 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	428	12	22
TSS	15	917	25	40
NH_3-N	2	122	5	10
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored five times per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Five/week
TSS	Five/week
NH_3-N	Five/week
Total P	Five/week
DO	Five/week
E. coli	Daily

C. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

D. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 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.

E. 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 6%, 8%, 11%, 15%, and 20%. The low-flow effluent concentration (critical dilution) is defined as 15% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months for both test species.

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

F. BUFFER ZONE REQUIREMENTS

For all newly constructed clarifier, UV disinfection chamber, Post aeration basin and Re-lift pump stations and other units, the permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

H. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

The Interim phase (5.83 MGD) in the existing permit has been removed since it is no longer applicable. The facility is operating in 7.33 MGD Final phase.

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.

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

Other requirement :- 4 has been updated from the draft permit for the newly constructed treatment units to meet the buffer zone requirements.

For all newly constructed clarifier, UV disinfection chamber, Post aeration basin and Re-lift pump stations and other units, the permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

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

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

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed ditch, thence to Salitrillo Creek, thence to Martinez Creek Soil Conservation Service Dam No. 6A Reservoir, thence to Salitrillo Creek, thence to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are minimal aquatic life use for unnamed ditch and Salitrillo Creek, and high aquatic life use for Martinez Creek Soil Conservation Dam No. 6A Reservoir. 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's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1902 is currently listed on the State's inventory of threatened and impaired waters (the 2024 CWA § 303(d) list). The listing is for elevated bacteria from the confluence with the Lower San Antonio River in Karnes County upstream to a point 100 meters (110 yards) downstream of IH 10 in Bexar/Guadalupe County [(Assessment Units (AU) 1902_01] through 1902_05). Martinez Creek (1902A) is also listed for bacteria from the confluence with Lower Cibolo Creek upstream to the confluence with Salitrillo Creek (AU 1902A_01). Salitrillo Creek (1902B) is also listed for bacteria from the confluence with Martinez Creek to FM 78 in Converse (AU 1902B_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 3.6 mg/l total dissolved solids (TDS), 75 mg/l sulfate, and 208 mg/l chloride present in the effluent. The segment criteria for Segment No. 1902 are 900 mg/l for TDS, 275 mg/l for sulfate, and 170 mg/l for chloride. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

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

(2) CONVENTIONAL PARAMETERS

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

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The existing limits are consistant 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"* is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Acute and chronic freshwater criteria are applied in the lake or reservoir.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. TCEQ practice is to establish minimum estimated effluent percentages for the acute and chronic protection of aquatic life for discharges that are 10 MGD or less into sections of lakes and reservoirs that are at least 200 feet wide. These critical effluent percentages are as follows:

Acute Effluent % (stream):	100%	Chronic Effluent % (lake):	15%
Acute Effluent % (lake):	60%		

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 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 B of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

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). Freshwater fish tissue bioaccumulation criteria are applied in the lake or reservoir for a discharge to an intermittent stream that enters the lake or reservoir within 3 miles downstream of the discharge point. TCEQ practice is to establish a minimum estimated effluent percentage for discharges that are 10 MGD or less into sections of lakes or reservoirs that are at least 200 feet wide. This critical effluent percentage is:

Human Health Effluent %: 8%

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 B 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 not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past five years, the permittee performed eleven chronic tests, with zero demonstrations of significant toxicity (i.e., zero

failures).

A reasonable potential (RP) determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required, and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(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 five years, the permittee has performed fourteen 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the

applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sahil Hudda at (512) 239-4748.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010749001 issued on August 11, 2020.

B. APPLICATION

Application received on February 4, 2025, and additional information received on August 25, 2025.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

Texas 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

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

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 8 - Discharge to an Intermittent Stream within 3 Miles of a Lake

Screen the Lake

Applicant Name:	**San Antonio River Authority**
Permit Number, Outfall:	**10749-001, Outfall 001**
Segment Number:	**1902 - Lower Cibolo Creek**

Enter values needed for screening:			**Data Source (edit if different)**
EF - Effluent fraction at edge of human health MZ	**0.08**	decimal fraction	Critical conditions memo
CA - TDS - ambient segment concentration	**645**	mg/L	2022 Draft IP, Appendix D
CA - chloride - ambient segment concentration	**98**	mg/L	2022 Draft IP, Appendix D
CA - sulfate - ambient segment concentration	**132**	mg/L	2022 Draft IP, Appendix D
CC - TDS - segment criterion	**900**	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	**170**	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	**275**	mg/L	2022 TSWQS, Appendix A
CE - TDS - average effluent concentration	**3.58**	mg/L	Permit application
CE - chloride - average effluent concentration	**208**	mg/L	Permit application
CE - sulfate - average effluent concentration	**75**	mg/L	Permit application

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	3832.50
Calculate the LTA	LTA = WLA * 0.93	3564.23
Calculate the daily average	Daily Avg. = LTA * 1.47	**5239.41**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**11084.74**
Calculate 70% of the daily average	70% of Daily Avg. =	3667.59
Calculate 85% of the daily average	85% of Daily Avg. =	4453.50

No permit limitations needed if:	**3.58**	**≤**	**3667.59**		
Reporting needed if:	**3.58**	**>**	**3667.59**	**but ≤**	**4453.50**
Permit limits may be needed if:	**3.58**	**>**	**4453.50**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	998.00
Calculate the LTA	LTA = WLA * 0.93	928.14
Calculate the daily average	Daily Avg. = LTA * 1.47	**1364.37**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**2886.52**
Calculate 70% of the daily average	70% of Daily Avg. =	955.06
Calculate 85% of the daily average	85% of Daily Avg. =	1159.71

No permit limitations needed if:	**208**	**≤**	**955.06**		
Reporting needed if:	**208**	**>**	**955.06**	**but ≤**	**1159.71**
Permit limits may be needed if:	**208**	**>**	**1159.71**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	1919.50
Calculate the LTA	LTA = WLA * 0.93	1785.14
Calculate the daily average	Daily Avg. = LTA * 1.47	**2624.15**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**5551.77**
Calculate 70% of the daily average	70% of Daily Avg. =	1836.90
Calculate 85% of the daily average	85% of Daily Avg. =	2230.53

No permit limitations needed if:	**75**	**≤**	**1836.90**		
Reporting needed if:	**75**	**>**	**1836.90**	**but ≤**	**2230.53**
Permit limits may be needed if:	**75**	**>**	**2230.53**		

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #8 - INTERMITTENT STREAM WITHIN 3 MILES OF A LAKE/RESERVOIR

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	San Antonio River Authority
TPDES Permit No:	WQ0010749001
Outfall No:	001
Prepared by:	Sahil Hudda
Date:	08/20/2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Unnamed ditch within three miles of Martinez Creek Soil Conservation Service Dam No. 6A Reservoir.
TSS (mg/L) (Intermittent):	6
pH (Standard Units) (Intermittent):	7.7
Hardness (mg/L as $CaCO_3$) (Intermittent):	269
Chloride (mg/L) (Intermittent):	98
Effluent Flow for Aquatic Life (MGD)	7.33
% Effluent for Acute Aquatic Life (Intermittent):	100
Lake/Reservoir within 3 miles:	Martinez creek soil Conservation service Dam No. 6A Reservoir
Segment No.:	1902
TSS (mg/L) (Lake/Reservoir):	6
pH (Standard Units) (Lake/Reservoir):	7.7
Hardness (mg/L as $CaCO_3$) (Lake/Reservoir):	269
Chloride (mg/L) (Lake/Reservoir):	98
% Effluent for Chronic Aquatic Life (Lake/Reservoir):	15
% Effluent for Acute Aquatic Life (Lake/Reservoir):	60
Effluent Flow for Human Health (MGD):	7.33
% Effluent for Human Health (Lake/Reservoir):	8
Human Health Criterion (select: PWS, FISH, or INC)	**INC**

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

Stream/River Metal	*Intercept (b)*	*Slope*	*(m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A		N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68		-0.73	129404.56	0.563		1.00	Assumed
Cadmium	6.60		-1.13	525640.82	0.241		1.00	Assumed

Chromium (total)	6.52	-0.93	625632.55	0.210		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	625632.55	0.210		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	278078.92	0.375		1.00	Assumed
Lead	6.45	-0.80	672169.81	0.199		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	176381.81	0.486		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	378882.21	0.306		1.00	Assumed
Zinc	6.10	-0.70	359165.10	0.317		1.00	Assumed

Lake/Reservoir Metal	*Intercept (b)*	*Slope*	*(m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A		N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68		-0.73	129404.56	0.563		1.00	Assumed
Cadmium	6.55		-0.92	682497.16	0.196		1.00	Assumed
Chromium (total)	6.34		-0.27	1348649.71	0.110		1.00	Assumed
Chromium (trivalent)	6.34		-0.27	1348649.71	0.110		1.00	Assumed
Chromium (hexavalent)	N/A		N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.45		-0.90	561906.27	0.229		1.00	Assumed
Lead	6.31		-0.53	789914.05	0.174		1.00	Assumed
Mercury	N/A		N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	6.34		-0.76	560537.99	0.229		1.00	Assumed
Selenium	N/A		N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38		-1.03	378882.21	0.306		1.00	Assumed
Zinc	6.52		-0.68	979167.86	0.145		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (int. stream) (µg/L)*	*FW Acute Criterion (lake) (µg/L)*	*FW Chronic Criterion (lake) (µg/L)*	*WLAa (int. stream) (µg/L)*	*WLAa (lake) (µg/L)*	*WLAc (lake) (µg/L)*	*LTAa (int. stream) (µg/L)*	*LTAa (lake) (µg/L)*	*LTAc (lake) (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	3.0	N/A	3.00	5.00	N/A	1.72	1.60	N/A	2.35	4.97
Aluminum	991	991	N/A	991	1652	N/A	568	529	N/A	776	1643

Arsenic	340	340	150	604	1007	1776	346	322	1084	473	1001
Cadmium	22.44	22.44	0.489	93.2	191	16.6	53.4	61.0	10.1	14.8	31.4
Carbaryl	2.0	2.0	N/A	2.00	3.33	N/A	1.15	1.07	N/A	1.56	3.31
Chlordane	2.4	2.4	0.004	2.40	4.00	0.0267	1.38	1.28	0.0163	0.0239	0.0505
Chlorpyrifos	0.083	0.083	0.041	0.0830	0.138	0.273	0.0476	0.0443	0.167	0.0650	0.137
Chromium (trivalent)	1281	1281	166.7	6091	19416	10103	3490	6213	6163	5130	10854
Chromium (hexavalent)	15.7	15.7	10.6	15.7	26.2	70.7	9.00	8.37	43.1	12.3	26.0
Copper	36.08	36.08	22.06	96.3	263	643	55.2	84.1	392	81.0	171
Cyanide (free)	45.8	45.8	10.7	45.8	76.3	71.3	26.2	24.4	43.5	35.9	75.9
4,4'-DDT	1.1	1.1	0.001	1.10	1.83	0.00667	0.630	0.587	0.00407	0.00597	0.0126
Demeton	N/A	N/A	0.1	N/A	N/A	0.667	N/A	N/A	0.407	0.597	1.26
Diazinon	0.17	0.17	0.17	0.170	0.283	1.13	0.0974	0.0907	0.691	0.133	0.281
Dicofol [Kelthane]	59.3	59.3	19.8	59.3	98.8	132	34.0	31.6	80.5	46.4	98.3
Dieldrin	0.24	0.24	0.002	0.240	0.400	0.0133	0.138	0.128	0.00813	0.0119	0.0252
Diuron	210	210	70	210	350	467	120	112	285	164	348
Endosulfan I (*alpha*)	0.22	0.22	0.056	0.220	0.367	0.373	0.126	0.117	0.228	0.172	0.364
Endosulfan II (*beta*)	0.22	0.22	0.056	0.220	0.367	0.373	0.126	0.117	0.228	0.172	0.364
Endosulfan sulfate	0.22	0.22	0.056	0.220	0.367	0.373	0.126	0.117	0.228	0.172	0.364
Endrin	0.086	0.086	0.002	0.0860	0.143	0.0133	0.0493	0.0459	0.00813	0.0119	0.0252
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.0667	N/A	N/A	0.0407	0.0597	0.126
Heptachlor	0.52	0.52	0.004	0.520	0.867	0.0267	0.298	0.277	0.0163	0.0239	0.0505
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	1.126	0.08	1.13	1.88	0.533	0.645	0.601	0.325	0.478	1.01
Lead	186.1	186.1	7.25	937	1780	278	537	570	169	248	526
Malathion	N/A	N/A	0.01	N/A	N/A	0.0667	N/A	N/A	0.0407	0.0597	0.126
Mercury	2.4	2.4	1.3	2.40	4.00	8.67	1.38	1.28	5.29	1.88	3.98
Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.200	N/A	N/A	0.122	0.179	0.379
Mirex	N/A	N/A	0.001	N/A	N/A	0.00667	N/A	N/A	0.00407	0.00597	0.0126
Nickel	1082	1082	120.1	2226	7865	3494	1276	2517	2131	1875	3966
Nonylphenol	28	28	6.6	28.0	46.7	44.0	16.0	14.9	26.8	21.9	46.4
Parathion (ethyl)	0.065	0.065	0.013	0.0650	0.108	0.0867	0.0372	0.0347	0.0529	0.0509	0.107
Pentachlorophenol	17.6	17.6	13.52	17.6	29.4	90.2	10.1	9.40	55.0	13.8	29.2
Phenanthrene	30	30	30	30.0	50.0	200	17.2	16.0	122	23.5	49.7
Polychlorinated Biphenyls [PCBs]	2.0	2.0	0.014	2.00	3.33	0.0933	1.15	1.07	0.0569	0.0836	0.177

Selenium	20	20	5	20.0	33.3	33.3	11.5	10.7	20.3	15.6	33.1
Silver	0.8	0.8	N/A	21.3	12.8	N/A	12.2	4.09	N/A	6.01	12.7
Toxaphene	0.78	0.78	0.0002	0.780	1.30	0.00133	0.447	0.416	0.000813	0.00119	0.00252
Tributyltin [TBT]	0.13	0.13	0.024	0.130	0.217	0.160	0.0745	0.0693	0.0976	0.101	0.215
2,4,5 Trichlorophenol	136	136	64	136	227	427	77.9	72.5	260	106	225
Zinc	271.0	271.0	273.2	855	3105	12523	490	994	7639	720	1523

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	14375	13369	19652	41576
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00143	0.00133	0.00196	0.00414
Anthracene	1109	1317	13170	164625	153101	225058	476144
Antimony	6	1071	10710	133875	124504	183020	387206
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	72625	67541	99285	210053
Benzidine	0.0015	0.107	1.07	13.4	12.4	18.2	38.6
Benzo(*a*)anthracene	0.024	0.025	0.25	3.13	2.91	4.27	9.03
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.313	0.291	0.427	0.903
Bis(chloromethyl)ether	0.0024	0.2745	2.745	34.3	31.9	46.9	99.2
Bis(2-chloroethyl)ether	0.60	42.83	428.3	5354	4979	7319	15484
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	944	878	1290	2729
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	34375	31969	46994	99422
Bromoform [Tribromomethane]	66.9	1060	10600	132500	123225	181140	383229
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	5750	5348	7860	16630
Chlordane	0.0025	0.0025	0.025	0.313	0.291	0.427	0.903
Chlorobenzene	100	2737	27370	342125	318176	467719	989528
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	22875	21274	31272	66161
Chloroform [Trichloromethane]	70	7697	76970	962125	894776	1315321	2782754
Chromium (hexavalent)	62	502	5020	62750	58358	85785	181491
Chrysene	2.45	2.52	25.2	315	293	430	911
Cresols [Methylphenols]	1041	9301	93010	1162625	1081241	1589424	3362660
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.250	0.233	0.341	0.723
4,4'-DDE	0.00013	0.00013	0.0013	0.0163	0.0151	0.0222	0.0469
4,4'-DDT	0.0004	0.0004	0.004	0.0500	0.0465	0.0683	0.144
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	59125	54986	80829	171007
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	530	493	724	1532

m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	74375	69169	101678	215114
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	412375	383509	563757	1192712
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	280	260	382	809
1,2-Dichloroethane	5	364	3640	45500	42315	62203	131599
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	6889250	6407003	9418293	19925777
Dichloromethane [Methylene Chloride]	5	13333	133330	1666625	1549961	2278443	4820379
1,2-Dichloropropane	5	259	2590	32375	30109	44259	93638
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	14875	13834	20335	43022
Dicofol [Kelthane]	0.30	0.30	3	37.5	34.9	51.2	108
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00250	0.00233	0.00341	0.00723
2,4-Dimethylphenol	444	8436	84360	1054500	980685	1441606	3049930
Di-*n*-Butyl Phthalate	88.9	92.4	924	11550	10742	15790	33406
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000100	0.0000093	0.0000136	0.0000288
Endrin	0.02	0.02	0.2	2.50	2.33	3.41	7.23
Epichlorohydrin	53.5	2013	20130	251625	234011	343996	727774
Ethylbenzene	700	1867	18670	233375	217039	319046	674990
Ethylene Glycol	46744	1.68E+07	1.68E+08	2100000000	1953000000	2870910000	6073830000
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.0125	0.0116	0.0170	0.0361
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0363	0.0337	0.0495	0.104
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0850	0.0791	0.116	0.245
Hexachlorobutadiene	0.21	0.22	2.2	27.5	25.6	37.5	79.5
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	1.05	0.977	1.43	3.03
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	32.5	30.2	44.4	93.9
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	42.6	39.6	58.2	123
Hexachlorocyclopentadiene	10.7	11.6	116	1450	1349	1982	4193
Hexachloroethane	1.84	2.33	23.3	291	271	398	842
Hexachlorophene	2.05	2.90	29	363	337	495	1048
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	1997750	1857908	2731124	5778092
Lead	1.15	3.83	38.3	2748	2555	3756	7947
Mercury	0.0122	0.0122	0.122	1.53	1.42	2.08	4.41
Methoxychlor	2.92	3.0	30	375	349	512	1084
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	124000000	115320000	169520400	358645200
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	1310250	1218533	1791242	3789636
Nickel	332	1140	11400	621760	578237	850008	1798316
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	234125	217736	320072	677159
N-Nitrosodiethylamine	0.0037	2.1	21	263	244	358	759
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	525	488	717	1518
Pentachlorobenzene	0.348	0.355	3.55	44.4	41.3	60.6	128
Pentachlorophenol	0.22	0.29	2.9	36.3	33.7	49.5	104
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0800	0.0744	0.109	0.231

Pyridine	23	947	9470	118375	110089	161830	342376
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	30.0	27.9	41.0	86.7
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	3294	3063	4502	9526
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	35000	32550	47848	101230
Thallium	0.12	0.23	2.3	28.8	26.7	39.3	83.1
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	1.38	1.28	1.87	3.97
2,4,5-TP [Silvex]	50	369	3690	46125	42896	63057	133407
1,1,1-Trichloroethane	200	784354	7843540	98044250	9118115	1340362	2835733
1,1,2-Trichloroethane	5	166	1660	20750	19298	28367	60015
Trichloroethylene [Trichloroethene]	5	71.9	719	8988	8358	12286	25994
2,4,5-Trichlorophenol	1039	1867	18670	233375	217039	319046	674990
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	2063	1918	2819	5965

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.64	1.99
Aluminum	543	660
Arsenic	331	402
Cadmium	10.4	12.6
Carbaryl	1.09	1.33
Chlordane	0.0167	0.0203
Chlorpyrifos	0.0455	0.0553
Chromium (trivalent)	3591	4361
Chromium (hexavalent)	8.61	10.4
Copper	56.7	68.9
Cyanide (free)	25.1	30.5
4,4'-DDT	0.00418	0.00508
Demeton	0.418	0.508
Diazinon	0.0932	0.113
Dicofol [Kelthane]	32.5	39.5
Dieldrin	0.00836	0.0101
Diuron	115	139
Endosulfan I (*alpha*)	0.120	0.146
Endosulfan II (*beta*)	0.120	0.146
Endosulfan sulfate	0.120	0.146
Endrin	0.00836	0.0101
Guthion [Azinphos Methyl]	0.0418	0.0508
Heptachlor	0.0167	0.0203
Hexachlorocyclohexane (*gamma*) [Lindane]	0.334	0.406
Lead	174	211
Malathion	0.0418	0.0508
Mercury	1.31	1.59
Methoxychlor	0.125	0.152
Mirex	0.00418	0.00508
Nickel	1312	1593
Nonylphenol	15.3	18.6
Parathion (ethyl)	0.0356	0.0433

Pentachlorophenol	9.67	11.7
Phenanthrene	16.4	19.9
Polychlorinated Biphenyls [PCBs]	0.0585	0.0711
Selenium	10.9	13.3
Silver	4.20	5.11
Toxaphene	0.000836	0.00101
Tributyltin [TBT]	0.0713	0.0866
2,4,5 Trichlorophenol	74.6	90.6
Zinc	504	612

Human Health ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Acrylonitrile	13756	16704
Aldrin	0.00137	0.00166
Anthracene	157541	191300
Antimony	128114	155567
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	69499	84392
Benzidine	12.7	15.5
Benzo(*a*)anthracene	2.99	3.63
Benzo(*a*)pyrene	0.299	0.363
Bis(chloromethyl)ether	32.8	39.8
Bis(2-chloroethyl)ether	5123	6221
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	903	1096
Bromodichloromethane [Dichlorobromomethane]	32895	39944
Bromoform [Tribromomethane]	126798	153969
Cadmium	N/A	N/A
Carbon Tetrachloride	5502	6681
Chlordane	0.299	0.363
Chlorobenzene	327403	397561
Chlorodibromomethane [Dibromochloromethane]	21890	26581
Chloroform [Trichloromethane]	920724	1118022
Chromium (hexavalent)	60049	72917
Chrysene	301	366
Cresols [Methylphenols]	1112597	1351010
Cyanide (free)	N/A	N/A
4,4'-DDD	0.239	0.290
4,4'-DDE	0.0155	0.0188
4,4'-DDT	0.0478	0.0581
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	56580	68705
1,2-Dibromoethane [Ethylene Dibromide]	507	615
m-Dichlorobenzene [1,3-Dichlorobenzene]	71174	86426
o-Dichlorobenzene [1,2-Dichlorobenzene]	394630	479194
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	267	325
1,2-Dichloroethane	43542	52872
1,1-Dichloroethylene [1,1-Dichloroethene]	6592805	8005549
Dichloromethane [Methylene Chloride]	1594910	1936676

1,2-Dichloropropane	30981	37620
1,3-Dichloropropene [1,3-Dichloropropylene]	14234	17285
Dicofol [Kelthane]	35.8	43.5
Dieldrin	0.00239	0.00290
2,4-Dimethylphenol	1009124	1225365
Di-*n*-Butyl Phthalate	11053	13421
Dioxins/Furans [TCDD Equivalents]	0.0000095	0.0000115
Endrin	2.39	2.90
Epichlorohydrin	240797	292397
Ethylbenzene	223332	271189
Ethylene Glycol	2009637000	2440273500
Fluoride	N/A	N/A
Heptachlor	0.0119	0.0145
Heptachlor Epoxide	0.0346	0.0421
Hexachlorobenzene	0.0813	0.0987
Hexachlorobutadiene	26.3	31.9
Hexachlorocyclohexane (*alpha*)	1.00	1.22
Hexachlorocyclohexane (*beta*)	31.1	37.7
Hexachlorocyclohexane (*gamma*) [Lindane]	40.7	49.5
Hexachlorocyclopentadiene	1387	1684
Hexachloroethane	278	338
Hexachlorophene	346	421
4,4'-Isopropylidenediphenol [Bisphenol A]	1911786	2321455
Lead	2629	3193
Mercury	1.45	1.77
Methoxychlor	358	435
Methyl Ethyl Ketone	118664280	144092340
Methyl *tert*-butyl ether [MTBE]	1253869	1522556
Nickel	595005	722506
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	224050	272061
N-Nitrosodiethylamine	251	305
N-Nitroso-di-*n*-Butylamine	502	610
Pentachlorobenzene	42.4	51.5
Pentachlorophenol	34.6	42.1
Polychlorinated Biphenyls [PCBs]	0.0765	0.0929
Pyridine	113281	137555
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	28.7	34.8
1,1,2,2-Tetrachloroethane	3152	3827
Tetrachloroethylene [Tetrachloroethylene]	33493	40671
Thallium	27.5	33.4
Toluene	N/A	N/A
Toxaphene	1.31	1.59
2,4,5-TP [Silvex]	44140	53598
1,1,1-Trichloroethane	93825405	113930850
1,1,2-Trichloroethane	19857	24112
Trichloroethylene [Trichloroethene]	8600	10443
2,4,5-Trichlorophenol	223332	271189
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	1973	2396