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

San Antonio River Authority (CN600790620) operates Martinez II WWTP (RN101514156), a Wastewater Treatment Facility. The facility is located at 1720 FM 1516 North, in Converse, Bexar County, Texas 78109. This application is for a renewal to discharge 3,500,000 gallons per day of treated domestic wastewater.

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

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/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 Martinez II WWTP (RN101514156), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 1720 FM 1516 North, en Converse, Condado de Bexar, Texas 78109. Esta solicitud es para una renovacion para descargar 3,500,000 galones por dia de aguas residuals domesticas tratadas.

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquimica carbonosa de oxigeno (CBOD5), solidos suspendidos totales (TSS), nitrogeno ammoniacal (NH3-N) y Escherichia coli (E.coli). Aguas residuals domesticas. están tratado por reja mecanica, tanques de aireacion, clarificadores finales, prensa de banda, y desinfeccion ultravioleta.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010749004

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. WQ0010749004 (EPA I.D. No. TX0095583) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 3,500,000 gallons per day. The domestic wastewater treatment facility is located at 1720 Farm-to-Market Road 1516 North, near the city of Converse, in Bexar County, Texas 78109. The discharge route is from the plant site to Martinez Creek, thence to Lower Cibolo Creek. TCEQ received this application on January 23, 2025. The permit application will be available for viewing and copying at San Antonio River Authority Utilities, 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=-98.317959,29.437841&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. Daniel Flores, Quality Control Superintendent, at 210-302-4200.

Issuance Date: February 12, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010749004

SOLICITUD. 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) para renovar el Permiso No. WQ0010749004 (EPA I.D. No. TX 0095583) 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 de 3,500,000 galones por día. La planta está ubicada en 1720 Farm-to-Market Road 1516 North, cerca de la cuidad de Converse, en el Condado de Bexar, Texas 78109. La ruta de descarga es del sitio de la planta a Martinez Creek; después a Lower Cibolo Creek. La TCEQ recibió esta solicitud el 23 de enero del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en 1720 Farm-to-Market Road 1516 North, Converse, Texas 78109, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.317959,29.437841&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 Daniel Flores, Quality Control Superintendent al 210-302-4200.

Fecha de emission: 12 de febrero de 2025

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010749004

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. WQ0010749004, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 3,500,000 gallons per day. TCEQ received this application on January 23, 2025.

The facility is located at 1720 Farm-to-Market Road 1516 North, in Bexar County, Texas 78109. The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are intermediate aquatic life use for Martinez Creek upstream of Escondido Creek confluence and high aquatic life use for Martinez Creek downstream of Escondido Creek confluence. 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=-98.317959,29.437841&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, 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. Daniel Flores, Quality Control Superintendent, at 210-302-4200.

Issuance Date: October 28, 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. WQ0010749004

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. WQ0010749004 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 3,500,000 galones por día. La TCEQ recibió esta solicitud el 23 de Enero de 2025.

La planta está ubicada en 1720 Farm-to-Market Road 1516 North, en el Condado de Bexar, Texas. El efluente tratado es descargado al Martinez Creek; después a Lower Cibolo Creek en el Segmento No. 1902 de la Cuenca del Río San Antonio. Los usos no clasificados de las aguas receptoras son intermedios usos de la vida acuática para el arroyo Martínez aguas arriba de la confluencia del arroyo Escondido y uso elevados de vida acuática para el arroyo Martínez aguas abajo de la confluencia del arroyo Escondido. Los usos designados para el Segmento No. 1902 son la recreación de contacto primario y uso elevados de vida acuática. 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=-98.317959,29.437841&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en San Antonio River Authority, Utilities Administration Building, Recepcion, 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.

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 Daniel Flores, Quality Control Superintendent, al 210-302-4200.

Fecha de emisión 28 de octubre de 2025

Brooke 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

January 23, 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: ER006578
Application Reference Number: 720851
Authorization Number: WQ0010749004
Site Name: Martinez Ii WWTP
Regulated Entity: RN101514156 - Martinez Ii Plant
Customer(s): CN600790620 - San Antonio River Authority

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

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

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0010749004

Site Information (Regulated Entity)

What is the name of the site to be authorized?	MARTINEZ II WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	1720 FM 1516 N
City	CONVERSE
State	TX
ZIP	78109
County	BEXAR
Latitude (N) (##.######)	29.437841
Longitude (W) (-###.######)	-98.317959
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)?	RN101514156
What is the name of the Regulated Entity (RE)?	MARTINEZ II PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	100 E GUENTHER
City	SAN ANTONIO
State	TX
ZIP	78204
County	BEXAR
Latitude (N) (##.######)	29.439542
Longitude (W) (-###.######)	-98.315556
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

San Ant-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600790620
Type of Customer	Other Government

Full legal name of the applicant:	
Legal Name	San Antonio River Authority
Texas SOS Filing Number	
Federal Tax ID	746011311
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	74611047
Number of Employees	101-250
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	San Antonio River Authority
Prefix	MR
First	Leamon
Middle	
Last	Anderson
Suffix	
Credentials	
Title	Deputy Director, Utilities Operations
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
Routing (such as Mail Code, Dept., or Attn:)	
City	SAN ANTONIO
State	TX
ZIP	78204
Phone (###-###-####)	2103024200
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2106619324
E-mail	landerson@sariverauthority.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	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

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	Billing 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	DANIEL
Middle	
Last	FLORES
Suffix	
Credentials	
Title	Quality Control SUPERINTENDENT
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	danielf@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?	DMR 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	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	SAN ANTONIO
11.4) State	TX

11.5) ZIP	78204
12) Phone (###-###-####)	2103024200
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	2106619324
16) E-mail	emunoz@sariverauthority.org

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application 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	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	100 E GUENTHER
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	SAN ANTONIO
11.4) State	TX
11.5) ZIP	78204
12) Phone (###-###-####)	2103024200
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	2106619324
16) E-mail	landerson@sariverauthority.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 Street
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 Street
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:	07/31/2025
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?	3.5
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?	TX0095583
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
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	Daniel Flores
3) Credential	
4) Title	Quality Control Superintendent
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 (###-###-####)	2106619324
14) Email	danielf@sariverauthority.org
Contact person to be listed in the Notices	
15) Prefix	MR
16) First and Last Name	Daniel Flores
17) Credential	
18) Title	Quality Control Superintendent
19) Organization Name	San Antonio River Authority
20) Phone (###-###-####)	2103024200
21) Fax (###-###-####)	2106619324
22) Email	danielf@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	Daniel Flores
7) Phone (###-###-####)	2103024200
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_Martinez II_Attachment 2_Plain Language Summary.pdf
Hash	AC6DD2A8313AE394F44CD26E460711AEC32CF2B843C946A5BE423B265D711B1E
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_Martinez II_Attachment 3_SPIF_and Attachment 4_SPIF Map.pdf
Hash	CCB1F17D5C9CE5BCB1737225AECFBF340E690D33EBAA35FC4EBA82CAA3B18D58
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_Martinez II_Attachment 5_USGS Map.pdf
Hash	E79C63BD803403607D4BE3B719712CCDF9A1B050EF68C6E559A02E922BC179F0

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_Martinez II_Attachment 7_Domestic Technical Report 4.0.pdf
Hash	4DF2ADE975E3598D8668C40A414DDF7CD7B5BFA419468B23F62EE45FAC2BD352
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Martinez II_Attachment 8_Domestic Technical Report 5.0 and Domestic Technical Report 6.0.pdf
Hash	7D481C351539E605BF7FC6BCE43ADF3E9628E9724DBDD0082C6437A408332E45
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Martinez II_Attachment 6_Domestic Technical Report 1.0 and Domestic Technical Report 2.0.pdf
Hash	FF5DDA19CD4E7A6966BFC0E8E80AF08CE65795DB1097D79E2354A79BA78ED965
MIME-Type	application/pdf
[File Properties]	
File Name	TECH_Martinez II_Attachment 9_Sewage Sludge Technical Reports 1.0 2.0 and 3.0.pdf
Hash	A0594ADF7B25D7A3C88E92F0C99A96AB7BD29424CE0C1B3940FE2F8150F67EB5
MIME-Type	application/pdf
3) Buffer Zone Map	

[File Properties]

File Name BUFF_ZM_Buffer Zone Map.pdf

Hash ED0D56DB86C00A91F6BA717353F461D2217711EAD307997F40EAFCE059F398C5

MIME-Type application/pdf

4) Flow Diagram

[File Properties]

File Name FLDIA_Martinez II_Attachment 13_Flow Diagram.pdf

Hash 57E0234D37E430F1236390FCED14DA04FCD7D1B0E21295BDB4599275A463B384

MIME-Type application/pdf

5) Site Drawing

[File Properties]

File Name SITEDR_Martinez II_Attachment 14_Site Drwings.pdf

Hash EBF8F6A198182142A5F4699FE9EC9463251E5302946A6A1E44A43794CFABE816

MIME-Type application/pdf

6) Design Calculations

[File Properties]

File Name DES_CAL_Design Calculations.pdf

Hash A4F75332A5715C9B04E9A69B80F51E8645785DE936AC57B3A2A49C9FBBCA34DE

MIME-Type application/pdf

7) Solids Management Plan

[File Properties]

File Name SMP_Martinez II_Attachment 15_Sewage Sludge Management Plan.pdf

Hash BFA3D415B96C6E4FE56AC614AB956B45938C0E243DB8640249A7F431AA61D2D9

MIME-Type application/pdf

8) Water Balance

[File Properties]

File Name WB_Water Balance.pdf

Hash E73290F581B10114C32671046EEC51D3AD2AB7C9FE96405949FA38B99974C121

MIME-Type application/pdf

9) Other Attachments

[File Properties]

File Name OTHER_Martinez II_Attachment 1_Copy of Check.pdf

Hash 3DB36DD9A673C7CF6769DB4D0EEBB84A7193F312993F67E0F53F57999D446547

MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Martinez II_Attachment_11_Description of Treatment Process.pdf
Hash	2FBE3B892331C523117C183A8AC5C8F1672EBAD40875601675C2D085C0968BB7
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Martinez II_Attachment 12_ Type and Dimension of Treatment Units.pdf
Hash	977FEC1A6A9EBA1481FC354659A3AD4DAD409497D5952E151C3216505301114D
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Martinez II_Attachment 16_Pollutant Analysis of Treated Effluent.pdf
Hash	B6DC5B18059C20DDB9DB7E12A95C3AFFD55478C045B8A0646A3C507FE0C02E72
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 WQ0010749004.
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:	2025-01-17
Signature Hash:	F287F6022DBBB503604AF4BBA86AB90913F024DA6ACEF4F4BEB268E6358CE326
Form Hash Code at time of Signature:	2F51FC13B308CCC921EE3CEBC30D71668E80E5C9C51EF39ECA4A52D36994C143

Fee Payment

Fee Amount:	$2000.00
Check Date:	The application fee was paid on 2025-01-21
Check Number:	The check number is 951620

Submission

Reference Number:	The application reference number is 720851
Submitted by:	The application was submitted by ER006578/ Daniel P Flores
Submitted Timestamp:	The application was submitted on 2025-01-23 at 07:52:39 CST
Submitted From:	The application was submitted from IP address 209.245.218.234
Confirmation Number:	The confirmation number is 621221
Steers Version:	The STEERS version is 6.85
Permit Number:	The permit number is WQ0010749004

Additional Information

Application Creator: This account was created by Daniel P Flores

Martinez II Wastewater Discharge Permit Amendment 01/2025
TPDES No. WQ0010749-004 (EPA I.D. TX0095583)

Attachment 2

Plain Language Summary

Reference: Domestic Administrative Report 1.0

Section 8 F

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

San Antonio River Authority (CN600790620) operates Martinez II WWTP (RN101514156), a Wastewater Treatment Facility. The facility is located at 1720 FM 1516 North, in Converse, Bexar County, Texas 78109. This application is for a renewal to discharge 3,500,000 gallons per day of treated domestic wastewater.

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

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/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 Martinez II WWTP (RN101514156), una instalacion de tratamiento de aguas residuales. La instalación está ubicada en 1720 FM 1516 North, en Converse, Condado de Bexar, Texas 78109. Esta solicitud es para una renovacion para descargar 3,500,000 galones por dia de aguas residuals domesticas tratadas.

Se espera que las descargas de la instalación contengan cinco-dia demanda bioquimica carbonosa de oxigeno (CBOD5), solidos suspendidos totales (TSS), nitrogeno ammoniacal (NH3-N) y Escherichia coli (E.coli). Aguas residuals domesticas. están tratado por reja mecanica, tanques de aireacion, clarificadores finales, prensa de banda, y desinfeccion ultravioleta.

INSTRUCTIONS

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

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

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

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

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

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

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

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

Example 2: Domestic Wastewater TPDES Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

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*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: Domestic Wastewater TPDES New Application

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

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 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*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 4: Domestic Wastewater TLAP Renewal application

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

of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 3

Supplemental Permit Information Form (SPIF)

Reference: Supplemental Permit Information Form

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 10749-004 EPA ID No. TX 0095583

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

   1720 FM 1516 N Converse, TX 78109 in 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: Daniel Flores

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Quality Control Superintendent

Mailing Address: 100 E. Guenther Street

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: danielf@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 the plant to Martinez Creek; thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

N/A

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

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

N/A

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

N/A

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 4

USGS General Location Map

Reference: Supplemental Permit Information Form (SPIF)

TCEQ Form 20971, Item 5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

MARTINEZ DAM 6A

MARTINEZ DAM 3

MARTINEZ II WWTP SITE AND PROPERTY BOUNDARY

WWTP

POINT OF DISCHARGE

DISCHARGE ROUTE

ONE MILE RADIUS

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

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

Attachment 4

Buffer Zone Map

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

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. WQ0010749-004 (EPA I.D. TX0095583)

Design Calculations

This application is for a renewal, design calculations are not required for a renewal.

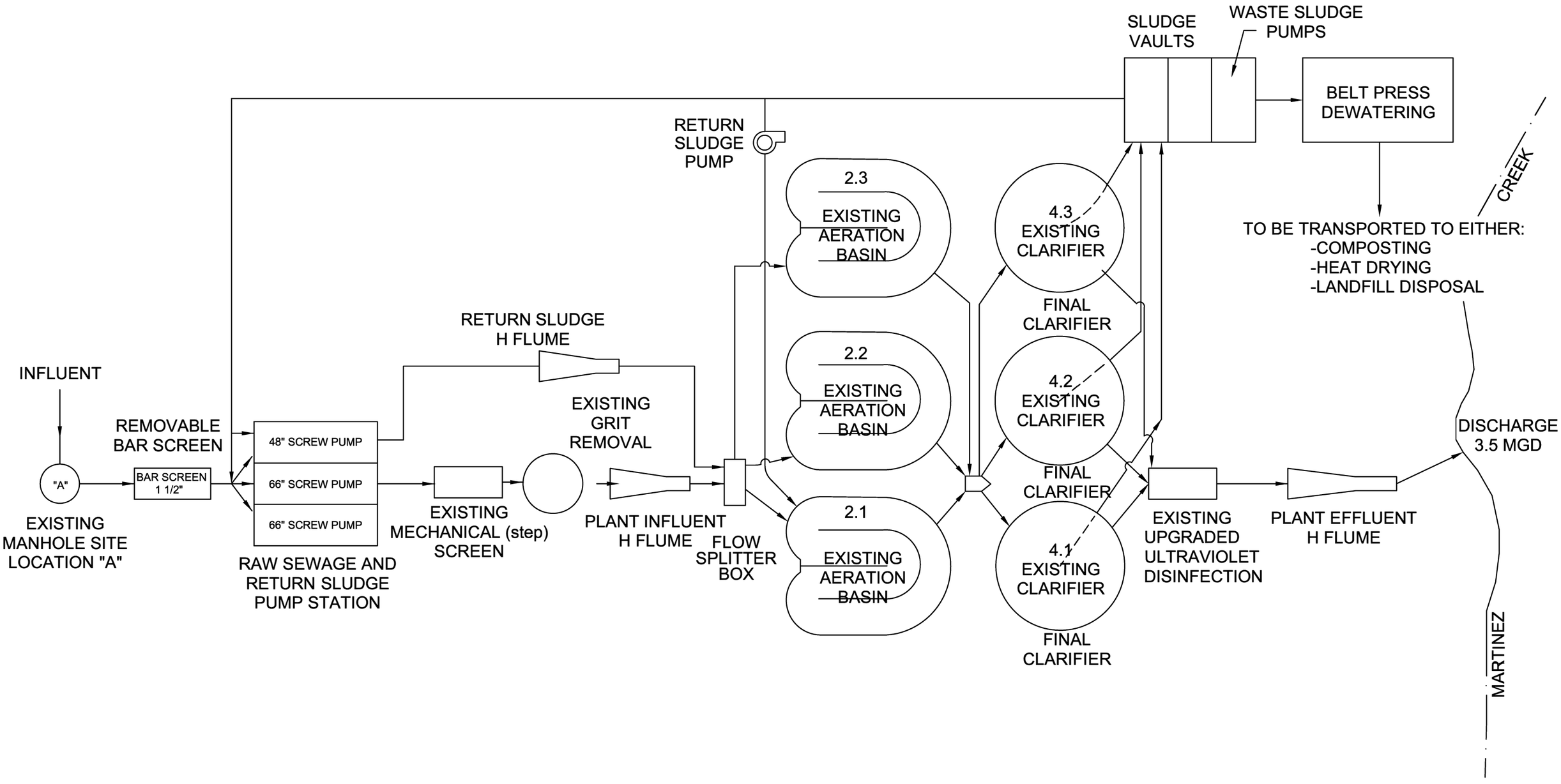
Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 13

Flow Diagram

Reference: Domestic Technical Report 1.0

Section 2 C



SAN ANTONIO RIVER AUTHORITY

100 E. GUENTHER STREET
P. O. BOX 830027
SAN ANTONIO, TEXAS 78283

DRAWN BY: WTG
CHECKED BY: JD
APPROVED BY: _____
FILE NAME: FLOW_DIAGRAM

MARTINEZ II
WASTEWATER TREATMENT PLANT
DISCHARGE SERIAL No. 001

PROPOSED SCHEMATIC FLOW DIAGRAM

Attachment13

SHEET ____ OF ____

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 5

USGS Map

Reference: Domestic Administrative Report 1.0

Section 13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

MARTINEZ DAM 6A

MARTINEZ DAM 3

MARTINEZ II WWTP SITE AND PROPERTY BOUNDARY

WWTP

POINT OF DISCHARGE

DISCHARGE ROUTE

ONE MILE RADIUS

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

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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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

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

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 5

SAN ANTONIO
RIVER AUTHORITY

EXECUTIVE COMMITTEE
CHAIRMAN
Darrell T. Brownlow, Ph.D.
VICE-CHAIR
Jim Campbell
SECRETARY
Lourdes Galvan
TREASURER
Michael W. Lackey, P.E.
MEMBERS AT-LARGE
Gaylon J. Oehlke
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
Hector R. Morales
Deb Bolner Prost
WILSON COUNTY
John J. Flieller
Darrell T. Brownlow, Ph.D.
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-MRT2-TCEQ

January 10, 2025

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (9589 0710 5270 0946 9883 60)

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

Reference: Martinez II Wastewater Treatment Plant; RN101514156
TPDES Permit No. WQ0010749-004 and NPDES No. TX0095583;
San Antonio River Authority CN600790620; Tax No. 1-74-6011311-5

Subject: Wastewater Discharge Permit Application Fee

Dear Madam/Sir:

Enclosed is check no. 951620 for the total amount of $2,015.00 for a wastewater discharge permit renewal application for the above referenced plant. This permit is due to expire July 31, 2025.

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

Enclosure
DF;ddv

100 EAST GUENTHER ST. · SAN ANTONIO, TEXAS 78204 · WWW.SARIVERAUTHORITY.ORG
(210) 227-1373 · (866) 345-7272 · FAX (210) 227-4323

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 11

Description of Treatment Process

Reference: Domestic Technical Report 1.0

Section 2 A

ATTACHMENT 11

Description of Treatment Process

The Martinez II WWTP operates on the extended aeration process with a current permitted flow rate of 3.5 MGD. The plant headworks include a lift station with three (3) screw pumps, a mechanically cleaned screen, and a grit removal system. There are three aeration basins and clarifiers, and an ultraviolet light disinfection system. Please see Attachment 13 "WWTP Flow Diagram" for a graphic explanation of the overall treatment process.

The process begins when raw sewage pumped from the screw pump lift station passes through the preliminary treatment system that consists of a mechanically cleaned bar screen. At this point, the screened raw sewage flows through a grit chamber for grit removal, mixed with return activated sludge, followed by gravity flow to the each of the three (3) aeration tanks where the settled raw sewage comes in contact with a dense population of microorganisms (mixed liquor) in the aeration basins. The tanks are continuously mixed and aerated. A continuous and ample supply of air is required to mix and aerate the mixed liquor and raw sewage to provide the oxygen required by the bacteria.

Mixed liquor from the aeration basins flows by gravity to three (3) clarifiers where the sludge settles from the water. The clear effluent flows over a weir, through an ultraviolet disinfection chamber, metered through a plant effluent 'H' flume, and then discharged to Martinez Creek. Settled sludge is continuously swept from the bottom of the clarifier into a sump where it is pumped back to the start of the treatment process at the headworks. Scum and floating materials are removed with skimming blades attached to the clarifier skimming mechanism, and then pumped back into the treatment process.

Excess waste activated sludge having a 1.0 to 1.5 % Total Solids (TS) concentration is pumped to a sludge holding area, and is then pumped to the on-site sludge dewatering belt press facility that has sufficient capacity for the existing and future anticipated sludge flow rates. SARA currently has two (2) options for the final disposal of dewatered biosolids. These methods are described as follows:

1. The dewatered will be moved to the composting/heat drying facility located on-site. Composted and/or head dried biosolids will be marketed and distributed back into the wholesale/retail landscaping market.

2. Dewatered biosolids from the Martinez II WWTP may also be disposed at the Allied Waste (BFI Tessman Road Municipal Solid Waste Landfill, TCEQ Permit No. 1410-A) for final disposal should the first option described above not be available.

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 12

Type and Dimension of each Treatment Unit

Reference: Domestic Technical Report 1.0

Section 2 B

Type and Dimensions of Each Existing Treatment Unit
(For 3.5 MGD Treatment Facility)

Treatment Unit	Model	Dimension(s)
Headworks:		
Enclosed Screw Pump	Siemens (CPC) Siemens (CPC)	(1) 48" Diameter (2) 66" Diameter 30 Feet Lift
Mechanical Screen	Duperon Model FPFS	0.25" bar space openings 3' channel width 6' channel height 3.82' water depth
Grit Removal	Eutek "Headcell" Model	Grit Chamber: 12' x 12' grit chamber (8) 9'9" Feet Diameter Trays 15'3.5" water depth
Aeration Basins:	Eimco carrousel type 1.0 MGD	111 Feet Overall Length 92 Feet Overall Width 11 Feet 6 Inches Depth
	Eimco carrousel type 1.0 MGD	103 Feet Overall Length 85 Feet Overall Width 12 Feet Depth
	Wes Tech Eng. carrousel type 1.5 MGD	206 Feet Overall Length 30 Feet Channel Length 15 Feet Water Depth
Clarifiers:		
Center Feed Type	Eimco (2) 1.0 MGD each	85 Feet Diameter 13 Feet Side Water Depth
	Wes Tech Eng. 1.5 MGD	90 Feet Diameter 13 Feet Side Water Depth
Disinfection:		
Ultraviolet System	Trojan 3000 Plus	Channel Dimensions: 30 Feet Long 24 Inches Wide 32 Inches Deep
Generator	Cummins	1000 KW

Sludge Dewatering:

3.0 Meter Belt Press

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 16

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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 1 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
CBOD5	4	mg/L	3	10/02/2024 14:38	SM 5210 B	GQM
Chloride_IC	133	mg/L	2	10/02/2024 10:54	EPA 300.0	JAS
Conductivity, Specific	996	µmhos/cm at 25° C	1	10/02/2024 09:01	SM 2510B	LCC
Nitrate-N_IC	0.3	mg/L	0.2	10/02/2024 10:54	EPA 300.0	JAS
Phosphorus, Total	3.26	mg/L	0.10	10/04/2024 04:50	SM 4500-P/B/E	JAS
Sulfate_IC	79	mg/L	2	10/02/2024 10:54	EPA 300.0	JAS
Total Dissolved Solids	548	mg/L	10	10/03/2024 11:30	SM 2540C	CLH/PML
Total Suspended Solids	2	mg/L	1	10/03/2024 11:00	SM 2540 D	PML/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	175	167 - 228	
Chloride_IC	1	10	95	98	99	102	102	85 - 115	
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N_IC	19	20	70	97	118	130	106	85 - 115	
Phosphorus, Total	<1	10	91	98	99	103	100	85 - 115	
Sulfate_IC	<1	10	94	100	100	101	105	85 - 115	
Total Dissolved Solids	4.838	10	N/A	N/A	N/A	N/A			
Total Suspended Solids	4	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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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Ammonia-N (ISE)	2.0	mg/L	0.1	10/02/2024 13:00	SM 4500-NH3 D	BMR
Fluoride_IC	0.27	mg/L	0.20	10/02/2024 10:54	EPA 300.0	JAS
Kjeldahl-N, Total	6	mg/L	1	10/11/2024 12:30	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	186	mg/L	10	10/04/2024 07:05	SM 2320 B	LCC
Arsenic/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Barium/ICP (Total)	0.026	mg/L	0.010	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.001	mg/L	0.001	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Chromium/ICP (Total)	<0.003	mg/L	0.003	10/03/2024 14:14	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	107	107	120	92	85 - 115	
Fluoride_IC	1	10	87	103	104	105	106	85 - 115	
Kjeldahl-N, Total	5	10	90	99	94	109	106	85 - 115	<1
Alkalinity, Total (@pH 4.5)	1	10	95	101	99	107	98	85 - 115	
Arsenic/ICP MS	2	20	70	114	112	130	101	85 - 115	
Barium/ICP (Total)	<1	20	75	90	90	125	100	85 - 115	
Cadmium/ICP (Total)	<1	20	75	98	98	125	100	85 - 115	
Chromium/ICP (Total)	1	20	75	94	95	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.

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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797** **Page 3 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Copper/ICP (Total)	0.003	mg/L	0.002	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Lead/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Aluminum/ICP (Total)	0.019	mg/L	0.0025	10/21/2024 14:07	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)	<0.0005	mg/L	0.0005	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Trivalent Chromium	<0.003	mg/L	N/A	10/03/2024 14:14	Calculation	DJL
Hexavalent Chrome	<0.003	mg/L	0.003	10/01/2024 15:25	SM 3500-Cr B	DJL
Nickel/ICP (Total)	<0.002	mg/L	0.002	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Zinc/ICP (Total)	0.021	mg/L	0.005	10/03/2024 14:14	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	96	96	125	95	85 - 115	
Lead/ICP MS	<1	20	70	113	114	130	105	85 - 115	
Aluminum/ICP (Total)	<1	20	75	100	100	125	100	85 - 115	
Beryllium/ICP (Total)	<1	20	75	100	100	125	100	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	<1	20	75	98	99	125	99	85 - 115	
Nickel/ICP (Total)	<1	20	75	92	92	125	100	85 - 115	
Zinc/ICP (Total)	<1	20	75	95	95	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.

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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 4 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Antimony/ICP MS	<0.005	mg/L	0.005	10/09/2024 11:38	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	10/09/2024 11:38	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	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	1	20	70	110	109	130	105	85 - 115	
Thallium/ICP MS	<1	20	70	108	109	130	100	85 - 115	
Selenium/ICP MS	2	20	70	114	111	130	102	85 - 115	
Silver/ICP MS	<1	20	70	97	97	130	101	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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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 5 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776798 Page 1 of 1** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/17/2024** **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	10/03/2024 10:00	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.)	3	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: 776797

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:
Martinez II - TCEQ Major Permit Renewal
Report "Soils" ☐ As Is ☐ Dry Wt.

Collected By: JOE LUIS MARTINEZ JR

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	CBOD, TSS, TDS, SO4, Cl, SpCond HexCr, TriCr, NO3N, Talk, F;	NH3N, TKN, TPO4P, Metals*	604.1 Hex, Herb 615, Pest 1657, 608, 617, 632, SVOC 625	FOG (HEM)	VOC 624	CN-A	Phenol (Dist)	Low Level Hg	PCS Sample Number
Effluent	Start: 10-1-2024 End:	Start: 11:40AM End:		■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						776797 ☒S ☐B ☒N ☐HEM Other:
Effluent	Start: 10-1-2024 End:	Start: 11:40AM End:		☐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	776798 ☒S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:

Requested Analysis

Instructions/Comments:
*Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, SbMS, AsMS, PbMS, SeMS, AgMS, TlMS

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: Joe Luis Martinez Jr	Date: 10.1.2024	Time: 11:40AM	Received By:		Date: 10-1-24	Time: 11:50am
Relinquished By:	Date: 10-1-24	Time: 12:31pm	Received By: Carlos Vasquez		Date: 10.1.24	Time: 12:31pm
Carlos Vasquez	10.01.24	2:25pm	Xavier Gonzales		10-1-24	2:25 PM
Xavier Gonzales	10-1-24	2:44PM	Jason Aguilera		10-1-24	1444

Rev. Multiple Sample COC_20180628

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA07997 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49103
Sample Matrix: Non Potable Water

Collection Date/Time: 10/01/2024 08:26
Receipt Date/Time: 10/01/2024 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: **AB49103-A** E. coli
Matrix interference detected in the sample.

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: 10/9/2024 9:22:31

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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
AB49103-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL	*			10/1/24	14:51	AC
AB49103-A	E. Coli Holding Time - IDEXX Colilert									
			6.42	hours				10/1/24	14:51	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: 10/9/2024 9:22:31

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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-80866

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 9:22:31

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08010 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49126
Sample Matrix: Non Potable Water

Collection Date/Time: 10/02/2024 07:53
Receipt Date/Time: 10/02/2024 13:20

CASE NARRATIVE

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

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

Sample Comments: A time of relinquish was not documented 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: 10/9/2024 9:41:03

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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
AB49126-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80882	10/2/24	15:46	AC/AM
AB49126-A	E. Coli Holding Time - IDEXX Colilert									
			7.88	hours		0.00	80881	10/2/24	15:46	AC/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: 10/9/2024 9:41:03

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-80882

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 9:41:03

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Martinez II 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: AA08029 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49135
Sample Matrix: Non Potable Water

Collection Date/Time: 10/03/2024 08:17
Receipt Date/Time: 10/03/2024 13:18

CASE NARRATIVE

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

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

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/9/2024 9:44:09

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
AB49135-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80901	10/3/24	14:30	AC/MSR
AB49135-A	E. Coli Holding Time - IDEXX Colilert									
			6.22	hours		0.00	80900	10/3/24	14:30	AC/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: 10/9/2024 9:44:09

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-80901

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 9:44:09

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08057 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49152
Sample Matrix: Non Potable Water

Collection Date/Time: 10/04/2024 09:45
Receipt Date/Time: 10/04/2024 13:28

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: 10/9/2024 9:54:04

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
AB49152-A	E. coli									
	SM 9223B-2016	√	4	MPN/100 mL		1	80916	10/4/24	14:31	MSR/DM
AB49152-A	E. Coli Holding Time - IDEXX Colilert									
			4.77	hours		0.00	80915	10/4/24	14:31	MSR/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: 10/9/2024 9:54:04

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80916

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 9:54:04

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08062 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49162
Sample Matrix: Non Potable Water

Collection Date/Time: 10/05/2024 09:40
Receipt Date/Time: 10/05/2024 11:55

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: 10/21/2024 10:00.48

SAN ANTONIO RIVER AUTHORITY
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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
AB49162-A	E. coli									
	SM 9223B-2016	√	2	MPN/100 mL		1	80921	10/5/24	12:28	DM/MEV
AB49162-A	E. Coli Holding Time - IDEXX Colilert									
			2.80	hours		0.00	80920	10/5/24	12:28	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: 10/21/2024 10:00.48

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-80921

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/21/2024
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: 10/21/2024 10:00.48

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08074 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49165
Sample Matrix: Non Potable Water

Collection Date/Time: 10/06/2024 09:01
Receipt Date/Time: 10/06/2024 11:43

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: 10/9/2024 10:06:52

SAN ANTONIO RIVER AUTHORITY
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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
AB49165-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80923	10/6/24	12:37	MEV/DM
AB49165-A	E. Coli Holding Time - IDEXX Colilert									
			3.60	hours		0.00	80922	10/6/24	12:37	MEV/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: 10/9/2024 10:06:52

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-80923

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 10:06:52

SAN ANTONIO RIVER AUTHORITY
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08098 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49172
Sample Matrix: Non Potable Water

Collection Date/Time: 10/07/2024 08:15
Receipt Date/Time: 10/07/2024 14:08

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: 10/9/2024 10:10:42

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
AB49172-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80927	10/7/24	15:49	MSR
AB49172-A	E. Coli Holding Time - IDEXX Colilert									
			7.57	hours		0.00	80926	10/7/24	15:49	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: 10/9/2024 10:10:42

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-80927

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



Nicholas Johnson
Quality Assurance Specialist I

10/9/2024
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: 10/9/2024 10:10:42

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08102 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49183
Sample Matrix: Non Potable Water

Collection Date/Time: 10/08/2024 08:31
Receipt Date/Time: 10/08/2024 13:47

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 of relinquish was not documented 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: 10/16/2024 9:08:24

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
AB49183-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80943	10/8/24	15:06	GMM
AB49183-A	E. Coli Holding Time - IDEXX Colilert									
			6.58	hours		0.00	80942	10/8/24	15:06	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: 10/16/2024 9:08:24

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-80943

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



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 9:08:24

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08115 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49201
Sample Matrix: Non Potable Water

Collection Date/Time: 10/09/2024 08:10
Receipt Date/Time: 10/09/2024 13:31

CASE NARRATIVE

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

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

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/16/2024 9:12:15

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
AB49201-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80964	10/9/24	15:33	DM/AG
AB49201-A	E. Coli Holding Time - IDEXX Colilert									
			7.38	hours		0.00	80963	10/9/24	15:33	DM/AG

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: 10/16/2024 9:12:15

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80964

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



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 9:12:15

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

ANALYTICAL REPORT

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

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Sample Location: AA08143 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49229
Sample Matrix: Non Potable Water

Collection Date/Time: 10/10/2024 08:50
Receipt Date/Time: 10/10/2024 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: 10/16/2024 9:23:18

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
AB49229-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	80973	10/10/24	15:27	DAZ/GMM
AB49229-A	E. Coli Holding Time - IDEXX Colilert									
			6.62	hours		0.00	80972	10/10/24	15:27	DAZ/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: 10/16/2024 9:23:18

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-80973

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



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 9:23:18

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08153 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49244
Sample Matrix: Non Potable Water

Collection Date/Time: 10/11/2024 08:20
Receipt Date/Time: 10/11/2024 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.

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: 10/16/2024 9:26:22

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
AB49244-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	80975	10/11/24	14:34	GMM/DAZ
AB49244-A	E. Coli Holding Time - IDEXX Colilert									
			6.23	hours		0.00	80974	10/11/24	14:34	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: 10/16/2024 9:26:22

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-80975

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



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 9:26:22

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08172 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49251
Sample Matrix: Non Potable Water

Collection Date/Time: 10/12/2024 08:37
Receipt Date/Time: 10/12/2024 09:20

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: 10/16/2024 9:44:47

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
AB49251-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81005	10/12/24	14:10	DAZ/MSR
AB49251-A	E. Coli Holding Time - IDEXX Colilert									
			5.55	hours		0.00	81004	10/12/24	14:10	DAZ/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: 10/16/2024 9:44:47

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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-81005

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



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 9:44:47

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08177 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49254
Sample Matrix: Non Potable Water

Collection Date/Time: 10/13/2024 07:55
Receipt Date/Time: 10/13/2024 09:23

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: 10/17/2024 12:53:21

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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
AB49254-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81007	10/13/24	13:11	MSR/AC
AB49254-A	E. Coli Holding Time - IDEXX Colilert									
			5.27	hours		0.00	81006	10/13/24	13:11	MSR/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: 10/17/2024 12:53:21

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81007

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



Nicholas Johnson
Quality Assurance Specialist I

10/17/2024
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: 10/17/2024 12:53:21

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ANALYTICAL REPORT

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

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Sample Location: AA08191 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49263
Sample Matrix: Non Potable Water

Collection Date/Time: 10/14/2024 09:00
Receipt Date/Time: 10/14/2024 13:33

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: 10/17/2024 12:57:14

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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
AB49263-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81071	10/14/24	15:24	AC
AB49263-A	E. Coli Holding Time - IDEXX Colilert									
			6.40	hours		0.00	81070	10/14/24	15:24	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: 10/17/2024 12:57:14

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81071

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



Nicholas Johnson
Quality Assurance Specialist I

10/17/2024
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: 10/17/2024 12:57:14

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ANALYTICAL REPORT

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

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Sample Location: AA08218 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49283
Sample Matrix: Non Potable Water

Collection Date/Time: 10/15/2024 08:00
Receipt Date/Time: 10/15/2024 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: 10/24/2024 14:54:51

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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
AB49283-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81077	10/15/24	14:41	AC
AB49283-A	E. Coli Holding Time - IDEXX Colilert									
			6.68	hours		0.00	81076	10/15/24	14:41	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: 10/24/2024 14:54:51

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81077

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



Nicholas Johnson
Quality Assurance Specialist I

10/24/2024
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: 10/24/2024 14:54:51

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08226 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49308
Sample Matrix: Non Potable Water

Collection Date/Time: 10/16/2024 08:10
Receipt Date/Time: 10/16/2024 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: 10/22/2024 16:01.26

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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
AB49308-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81094	10/16/24	15:45	AC
AB49308-A	E. Coli Holding Time - IDEXX Colilert									
			7.58	hours		0.00	81092	10/16/24	15:45	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: 10/22/2024 16:01.26

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81094

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



Jeanette Hernandez
Senior Quality Assurance Specialist

10/22/2024
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: 10/22/2024 16:01.26

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08243 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49328
Sample Matrix: Non Potable Water

Collection Date/Time: 10/17/2024 10:33
Receipt Date/Time: 10/17/2024 13:22

CASE NARRATIVE

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

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

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/21/2024 10:03.53

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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
AB49328-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	81106	10/17/24	15:05	AC/GMM
AB49328-A	E. Coli Holding Time - IDEXX Colilert									
			4.53	hours		0.00	81105	10/17/24	15:05	AC/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: 10/21/2024 10:03.53

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81106

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/21/2024
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: 10/21/2024 10:03.53

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08267 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49337
Sample Matrix: Non Potable Water

Collection Date/Time: 10/18/2024 09:15
Receipt Date/Time: 10/18/2024 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: 10/21/2024 10:06.56

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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
AB49337-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81109	10/18/24	15:07	GMM
AB49337-A	E. Coli Holding Time - IDEXX Colilert									
			5.87	hours		0.00	81108	10/18/24	15:07	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: 10/21/2024 10:06.56

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81109

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/21/2024
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: 10/21/2024 10:06.56

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ANALYTICAL REPORT

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

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Sample Location: AA08272 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49346
Sample Matrix: Non Potable Water

Collection Date/Time: 10/19/2024 09:46
Receipt Date/Time: 10/19/2024 12:01

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: 10/21/2024 10:10.02

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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
AB49346-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	81118	10/19/24	13:45	AG/GMM
AB49346-A	E. Coli Holding Time - IDEXX Colilert									
			3.98	hours		0.00	81117	10/19/24	13:45	AG/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: 10/21/2024 10:10.02

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81118

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



Jeanette Hernandez
Senior Quality Assurance Specialist

10/21/2024
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: 10/21/2024 10:10.02

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ANALYTICAL REPORT

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

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Sample Location: AA08284 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49348
Sample Matrix: Non Potable Water

Collection Date/Time: 10/20/2024 09:00
Receipt Date/Time: 10/20/2024 11:13

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: 10/21/2024 16:13.17

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
AB49348-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81122	10/20/24	14:01	AG/FM/DM
AB49348-A	E. Coli Holding Time - IDEXX Colilert									
			5.02	hours		0.00	81121	10/20/24	14:01	AG/FM/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: 10/21/2024 16:13.17

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-81122

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



Jeanette Hernandez
Senior Quality Assurance Specialist

10/21/2024
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: 10/21/2024 16:13.17

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08307 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49358
Sample Matrix: Non Potable Water

Collection Date/Time: 10/21/2024 08:06
Receipt Date/Time: 10/21/2024 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: 10/24/2024 14:57:58

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
AB49358-A	E. coli									
	SM 9223B-2016	√	2	MPN/100 mL		1	81126	10/21/24	15:04	AG/MSR
AB49358-A	E. Coli Holding Time - IDEXX Colilert									
			6.97	hours		0.00	81125	10/21/24	15:04	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: 10/24/2024 14:57:58

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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-81126

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



Nicholas Johnson
Quality Assurance Specialist I

10/24/2024
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: 10/24/2024 14:57:58

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08316 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49377
Sample Matrix: Non Potable Water

Collection Date/Time: 10/22/2024 07:53
Receipt Date/Time: 10/22/2024 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.

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: 11/1/2024 8:12:27

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
AB49377-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	81130	10/22/24	15:03	GMM/DAZ
AB49377-A	E. Coli Holding Time - IDEXX Colilert									
			7.17	hours		0.00	81129	10/22/24	15:03	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: 11/1/2024 8:12:27

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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-81130

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



Nicholas Johnson
Quality Assurance Specialist I

11/1/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/1/2024 8:12:27

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ANALYTICAL REPORT

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

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Sample Location: AA08331 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49412
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/2024 08:00
Receipt Date/Time: 10/23/2024 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: 11/1/2024 8:16:16

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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
AB49412-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81138	10/23/24	15:15	AG/DM/FM
AB49412-A	E. Coli Holding Time - IDEXX Colilert									
			7.25	hours		0.00	81137	10/23/24	15:15	AG/DM/FM

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: 11/1/2024 8:16:16

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81138

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



Nicholas Johnson
Quality Assurance Specialist I

11/1/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/1/2024 8:16:16

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ANALYTICAL REPORT

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

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Sample Location: AA08350 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49440
Sample Matrix: Non Potable Water

Collection Date/Time: 10/24/2024 08:10
Receipt Date/Time: 10/24/2024 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: 10/28/2024 14:42.13

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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
AB49440-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81146	10/24/24	14:48	GMM/DAZ
AB49440-A	E. Coli Holding Time - IDEXX Colilert									
			6.63	hours		0.00	81145	10/24/24	14:48	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: 10/28/2024 14:42.13

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81146

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/28/2024
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: 10/28/2024 14:42.13

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08368 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49451
Sample Matrix: Non Potable Water

Collection Date/Time: 10/25/2024 09:24
Receipt Date/Time: 10/25/2024 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: 10/29/2024 10:14.58

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
AB49451-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81153	10/25/24	15:17	DAZ/DM
AB49451-A	E. Coli Holding Time - IDEXX Colilert									
			5.88	hours		0.00	81152	10/25/24	15:17	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: 10/29/2024 10:14.58

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81153

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/29/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/29/2024 10:14.58

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08388 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49457
Sample Matrix: Non Potable Water

Collection Date/Time: 10/26/2024 09:15
Receipt Date/Time: 10/26/2024 11:32

CASE NARRATIVE

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

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

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/29/2024 10:17.18

SAN ANTONIO RIVER AUTHORITY
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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
AB49457-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81155	10/26/24	13:20	DM/JS
AB49457-A	E. Coli Holding Time - IDEXX Colilert									
			4.08	hours		0.00	81154	10/26/24	13:20	DM/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: 10/29/2024 10:17.18

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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-81155

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/29/2024
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/29/2024 10:17.18

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08393 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49461
Sample Matrix: Non Potable Water

Collection Date/Time: 10/27/2024 09:10
Receipt Date/Time: 10/27/2024 11:44

CASE NARRATIVE

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

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

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: 10/29/2024 10:20.26

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
AB49461-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81157	10/27/24	12:58	JS/FM/AC
AB49461-A	E. Coli Holding Time - IDEXX Colilert									
			3.80	hours		0.00	81156	10/27/24	12:58	JS/FM/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: 10/29/2024 10:20.26

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81157

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

Jeanette Hernandez
Senior Quality Assurance Specialist

10/29/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/29/2024 10:20.26

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08407 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49465
Sample Matrix: Non Potable Water

Collection Date/Time: 10/28/2024 08:20
Receipt Date/Time: 10/28/2024 14:45

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.

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: 10/31/2024 13:23:07

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
AB49465-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81160	10/28/24	16:00	AC
AB49465-A	E. Coli Holding Time - IDEXX Colilert									
			7.67	hours		0.00	81159	10/28/24	16:00	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: 10/31/2024 13:23:07

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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-81160

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



Nicholas Johnson
Quality Assurance Specialist I

10/31/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/31/2024 13:23:07

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08432 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49489
Sample Matrix: Non Potable Water

Collection Date/Time: 10/29/2024 08:00
Receipt Date/Time: 10/29/2024 13:23

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: 11/5/2024 15:07.01

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
AB49489-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81168	10/29/24	15:30	AC
AB49489-A	E. Coli Holding Time - IDEXX Colilert									
			7.50	hours		0.00	81167	10/29/24	15:30	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: 11/5/2024 15:07.01

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-81168

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



Jeanette Hernandez
Senior Quality Assurance Specialist

11/5/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/5/2024 15:07.01

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08444 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49505
Sample Matrix: Non Potable Water

Collection Date/Time: 10/30/2024 08:15
Receipt Date/Time: 10/30/2024 13:16

CASE NARRATIVE

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

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

No sample and/or analysis comment(s)

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/31/2024 13:26:16

SAN ANTONIO RIVER AUTHORITY
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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
AB49505-A	E. coli									
	SM 9223B-2016	√	<1	MPN/100 mL		1	81174	10/30/24	15:18	AC
AB49505-A	E. Coli Holding Time - IDEXX Colilert									
			7.05	hours		0.00	81172	10/30/24	15:18	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

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81174

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



Nicholas Johnson
Quality Assurance Specialist I

10/31/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 10/31/2024 13:26:16

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08461 Martinez II Effluent 1524-01 E. coli MPN
Sample Number: AB49527
Sample Matrix: Non Potable Water

Collection Date/Time: 10/31/2024 08:15
Receipt Date/Time: 10/31/2024 14:21

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

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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
AB49527-A	E. coli									
	SM 9223B-2016	√	1	MPN/100 mL		1	81218	10/31/24	15:50	AG/AC
AB49527-A	E. Coli Holding Time - IDEXX Colilert									
			7.58	hours		0.00	81217	10/31/24	15:50	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: 11/5/2024 15:10.06

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-81218

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



Jeanette Hernandez
Senior Quality Assurance Specialist

11/5/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/5/2024 15:10.06

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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08046 Martinez II Effluent 1524-01
Sample Number: AB49131
Sample Matrix: Non Potable Water

Collection Date/Time: 10/02/2024 07:30
Receipt Date/Time: 10/02/2024 13:20

CASE NARRATIVE

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

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

Analysis Comments: **AB49131-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 25 hours 53 minutes.
Laboratory storage temperature 3.1 °C.

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

ANALYTICAL RESULTS

	Analysis Method	NELAP	Result	Units	Qualifier	Reporting Limit	QC Batch #	Analysis Date	Time	Analyst
AB49131-B	Total Phosphorus									
	EPA 365.3-1978	√	2.94	mg/L		0.02	80968	10/9/24	15:27	MSR
AB49131-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	1.51	mg/L		0.10	80912	10/4/24	10:27	AG
AB49131-A	Total Suspended Solids									
	SM 2540D-2020	√	3.0	mg/L		1.0	80918	10/4/24	09:09	AM
AB49131-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	80906	10/3/24	09:23	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: 10/16/2024 8:53:25

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-80912

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LOQ Recovery for Non-Distilled Ammonia	93.8	%		70	---	130
LCS Recovery for Non-Distilled Ammonia	92.6	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	95.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	2.6	%		0.0	---	20

QC Batch Name: CBOD-80906

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCSD Result for CBOD	163	mg/L	D	167.5	---	228.5
LCST Result for CBOD	182	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	173	mg/L		167.5	---	228.5
LCS RSD for CBOD	5.6	%		0.0	---	15.4
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	172	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: T-PHOS_090107-80968

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for Total Phosphorus	<0.02	mg/L		---	---	0.02
LOQ Recovery for Total Phosphorus	95.9	%		70	---	130
LCS/LCSD RPD for Total Phosphorus	0.7	%		0.0	---	20
LCSD Recovery for Total Phosphorus	98.5	%		80	---	120
LCS Recovery for Total Phosphorus	99.2	%		80	---	120

QC Batch Name: TSS_SM-80918

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper

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: 10/16/2024 8:53:25

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ANALYTICAL REPORT

LCS Recovery for TSS	108.8	%	80	---	120
LCSD Recovery for TSS	103.3	%	80	---	120
LCS/LCSD RPD for TSS	5.2	%	0.0	---	20
MB Result for TSS	<1.0	mg/L	---	---	1



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 8:53:25

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08027 Martinez II Effluent 1524-01
Sample Number: AB49141
Sample Matrix: Non Potable Water

Collection Date/Time: 10/03/2024 07:30
Receipt Date/Time: 10/03/2024 13:18

CASE NARRATIVE

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

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

Analysis Comments: **AB49141-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample added to sample set while testing in progress upon receipt 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: 10/16/2024 8:55:46

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
AB49141-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	1.15	mg/L		0.10	80912	10/4/24	10:27	AG
AB49141-A	Total Suspended Solids									
	SM 2540D-2020	√	2.1	mg/L		1.0	80919	10/4/24	09:09	AM
AB49141-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	80906	10/3/24	09:23	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: 10/16/2024 8:55:46

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-80912

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	93.8	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	92.6	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	95.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	2.6	%		0.0	---	20

QC Batch Name: CBOD-80906

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	5.6	%		0.0	---	15.4
LCSD Result for CBOD	163	mg/L	D	167.5	---	228.5
LCST Result for CBOD	182	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	173	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	172	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-80919

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	108.8	%		80	---	120
LCSD Recovery for TSS	103.3	%		80	---	120
Sample RPD for TSS	0.0	%		0.0	---	20
LCS/LCSD RPD for TSS	5.2	%		0.0	---	20

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: 10/16/2024 8:55:46



Nicholas Johnson
Quality Assurance Specialist I

10/16/2024
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: 10/16/2024 8:55:46

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08125 Martinez II Effluent 1524-01
Sample Number: AB49206
Sample Matrix: Non Potable Water

Collection Date/Time: 10/09/2024 07:30
Receipt Date/Time: 10/09/2024 13:31

CASE NARRATIVE

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

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

Analysis Comments: **AB49206-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 24 hours 59 minutes.
Laboratory storage temperature 2.7 °C.

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: 10/22/2024 15:49.07

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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
AB49206-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	1.23	mg/L		0.10	81101	10/15/24	11:13	DAZ
AB49206-A	Total Suspended Solids									
	SM 2540D-2020	√	2.4	mg/L		1.0	81011	10/11/24	10:30	AM
AB49206-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	80971	10/10/24	08:29	DM/FM

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: 10/22/2024 15:49.07

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81101

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	111.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	112.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	113.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	0.9	%		0.0	---	20

QC Batch Name: CBOD-80971

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	7.7	%		0.0	---	15.4
LCSD Result for CBOD	151	mg/L	D	167.5	---	228.5
LCST Result for CBOD	173	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	159	mg/L	D	167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	152	mg/L	D	167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81011

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	103.3	%		80	---	120
LCSD Recovery for TSS	107.0	%		80	---	120
LCS/LCSD RPD for TSS	3.5	%		0.0	---	20

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: 10/22/2024 15:49.07



Jeanette Hernandez
Senior Quality Assurance Specialist

10/22/2024
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: 10/22/2024 15:49.07

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600 E. Euclid
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ANALYTICAL REPORT

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

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Sample Location: AA08141 Martinez II Effluent 1524-01
Sample Number: AB49234
Sample Matrix: Non Potable Water

Collection Date/Time: 10/10/2024 07:30
Receipt Date/Time: 10/10/2024 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.

Analysis Comments: **AB49234-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 24 hours 56 minutes.
Laboratory storage temperature 3.1 °C.

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: 10/22/2024 15:53.43

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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
AB49234-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	0.331	mg/L		0.10	81102	10/15/24	11:13	DAZ
AB49234-A	Total Suspended Solids									
	SM 2540D-2020	√	1.8	mg/L		1.0	81072	10/14/24	11:14	AC/AG
AB49234-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	80976	10/11/24	08:26	JS/FM/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: 10/22/2024 15:53.43

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81102

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	111.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	112.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	113.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	0.9	%		0.0	---	20

QC Batch Name: CBOD-80976

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	5.1	%		0.0	---	15.4
LCSD Result for CBOD	154	mg/L	D	167.5	---	228.5
LCST Result for CBOD	152	mg/L	D	167.5	---	228.5
Mean LCS Result for CBOD	157	mg/L	D	167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	166	mg/L	D	167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81072

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	98.3	%		80	---	120
LCSD Recovery for TSS	103.3	%		80	---	120
LCS/LCSD RPD for TSS	5.0	%		0.0	---	20

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: 10/22/2024 15:53.43



Jeanette Hernandez
Senior Quality Assurance Specialist

10/22/2024
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: 10/22/2024 15:53.43

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Martinez II 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: AA08199 Martinez II Effluent 1524-01
Sample Number: AB49268
Sample Matrix: Non Potable Water

Collection Date/Time: 10/14/2024 07:30
Receipt Date/Time: 10/14/2024 13:33

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: **AB49268-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 25 hours 23 minutes.
Laboratory storage temperature 2.6 °C.

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: 11/4/2024 16:06.19

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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
AB49268-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	1.92	mg/L		0.10	81184	10/24/24	11:34	DAZ
AB49268-A	Total Suspended Solids									
	SM 2540D-2020	√	1.7	mg/L		1.0	81096	10/16/24	14:58	AG
AB49268-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	81081	10/15/24	08:53	DM/FM/AG

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: 11/4/2024 16:06.19

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81184

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	96.1	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	100.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	100.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	0.0	%		0.0	---	20

QC Batch Name: CBOD-81081

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	2.8	%		0.0	---	15.4
LCSD Result for CBOD	186	mg/L		167.5	---	228.5
LCST Result for CBOD	194	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	193	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	197	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81096

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	107.0	%		80	---	120
LCSD Recovery for TSS	108.3	%		80	---	120
LCS/LCSD RPD for TSS	1.3	%		0.0	---	20

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: 11/4/2024 16:06.19



Jeanette Hernandez
Senior Quality Assurance Specialist

11/4/2024
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: 11/4/2024 16:06.19

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08216 Martinez II Effluent 1524-01
Sample Number: AB49287
Sample Matrix: Non Potable Water

Collection Date/Time: 10/15/2024 07:30
Receipt Date/Time: 10/15/2024 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.

Analysis Comments: **AB49287-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 26 hours 37 minutes.
Laboratory storage temperature 2.6 °C.

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: 11/4/2024 16:08.37

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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
AB49287-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	2.05	mg/L		0.10	81185	10/24/24	11:34	DAZ
AB49287-A	Total Suspended Solids									
	SM 2540D-2020	√	1.8	mg/L		1.0	81097	10/16/24	14:58	AG
AB49287-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	81090	10/16/24	10:07	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: 11/4/2024 16:08.37

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600 E. Euclid
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81185

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	96.1	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	100.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	100.0	%		80	---	120
MS Recovery for Non-Distilled Ammonia	104.0	%		80	---	120
MSD Recovery for Non-Distilled Ammonia	104.0	%		80	---	120
Sample RPD for Non-Distilled Ammonia	2.9	%		0.0	---	20
LCS/LCSD RPD for Non-Distilled Ammonia	0.0	%		0.0	---	20

QC Batch Name: CBOD-81090

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	2.9	%		0.0	---	15.4
LCSD Result for CBOD	197	mg/L		167.5	---	228.5
Sample RSD for CBOD	0.0	%		0.0	---	15.4
LCST Result for CBOD	197	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	200	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	207	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81097

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	107.0	%		80	---	120
LCSD Recovery for TSS	108.3	%		80	---	120
LCS/LCSD RPD for TSS	1.3	%		0.0	---	20

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: 11/4/2024 16:08.37



Jeanette Hernandez
Senior Quality Assurance Specialist

11/4/2024
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: 11/4/2024 16:08.37

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08314 Martinez II Effluent 1524-01
Sample Number: AB49382
Sample Matrix: Non Potable Water

Collection Date/Time: 10/22/2024 07:30
Receipt Date/Time: 10/22/2024 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: **AB49382-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample added to sample set while testing in progress upon receipt 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: 11/4/2024 16:22.27

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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
AB49382-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	0.366	mg/L		0.10	81187	10/25/24	09:59	DAZ
AB49382-A	Total Suspended Solids									
	SM 2540D-2020	√	1.1	mg/L		1.0	81142	10/23/24	09:05	AG
AB49382-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	81128	10/22/24	08:58	FM/DM/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: 11/4/2024 16:22.27

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81187

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	105.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	108.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	108.0	%		80	---	120
MS Recovery for Non-Distilled Ammonia	111.4	%		80	---	120
MSD Recovery for Non-Distilled Ammonia	113.4	%		80	---	120
Sample RPD for Non-Distilled Ammonia	1.4	%		0.0	---	20
LCS/LCSD RPD for Non-Distilled Ammonia	0.0	%		0.0	---	20

QC Batch Name: CBOD-81128

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	1.4	%		0.0	---	15.4
LCSD Result for CBOD	180	mg/L		167.5	---	228.5
LCST Result for CBOD	185	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	183	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	183	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81142

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	114.3	%		80	---	120
LCSD Recovery for TSS	119.3	%		80	---	120
LCS/LCSD RPD for TSS	4.3	%		0.0	---	20

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: 11/4/2024 16:22.27



Jeanette Hernandez
Senior Quality Assurance Specialist

11/4/2024
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: 11/4/2024 16:22.27

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600 E. Euclid
San Antonio, TX 78212-4405

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08343 Martinez II Effluent 1524-01
Sample Number: AB49417
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/2024 07:30
Receipt Date/Time: 10/23/2024 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 .

Analysis Comments: **AB49417-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 25 hours 45 minutes.
Laboratory storage temperature 2.6 °C.

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: 11/12/2024 12:16.47

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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
AB49417-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	0.161	mg/L		0.10	81188	10/29/24	14:20	AC/DAZ
AB49417-A	Total Suspended Solids									
	SM 2540D-2020	√	<1.0	mg/L		1.0	81165	10/28/24	12:47	AG
AB49417-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	81150	10/24/24	09:15	FM/AG/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: 11/12/2024 12:16.47

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

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81188

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	102.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	117.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	115.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	1.7	%		0.0	---	20

QC Batch Name: CBOD-81150

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	12.4	%		0.0	---	15.4
LCSD Result for CBOD	148	mg/L	D	167.5	---	228.5
LCST Result for CBOD	143	mg/L	D	167.5	---	228.5
Mean LCS Result for CBOD	157	mg/L	D	167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	179	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81165

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	105.6	%		80	---	120
LCSD Recovery for TSS	102.9	%		80	---	120
LCS/LCSD RPD for TSS	2.6	%		0.0	---	20

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: 11/12/2024 12:16.47



11/12/2024

Jeanette Hernandez
Senior Quality Assurance Specialist

Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/12/2024 12:16.47

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

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

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Sample Location: AA08454 Martinez II Effluent 1524-01
Sample Number: AB49508
Sample Matrix: Non Potable Water

Collection Date/Time: 10/30/2024 07:30
Receipt Date/Time: 10/30/2024 13:16

CASE NARRATIVE

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

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

Analysis Comments: **AB49508-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 25 hours 40 minutes.
Laboratory storage temperature 2.6 °C.

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: 11/8/2024 15:22:46

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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
AB49508-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	0.124	mg/L		0.10	81281	11/6/24	12:50	DAZ
AB49508-A	Total Suspended Solids									
	SM 2540D-2020	√	<1.0	mg/L		1.0	81228	11/1/24	09:36	AM
AB49508-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	<2	mg/L	*	2	81191	10/31/24	09:10	FM/DAZ/AG

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: 11/8/2024 15:22:46

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81281

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	121.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	105.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	107.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	1.9	%		0.0	---	20

QC Batch Name: CBOD-81191

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	2.9	%		0.0	---	15.4
LCSD Result for CBOD	184	mg/L		167.5	---	228.5
LCST Result for CBOD	189	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	190	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20
MB Mean Result for CBOD	<0.20	mg/L		---	---	0.20
LCS Result for CBOD	196	mg/L		167.5	---	228.5
MB Result for CBOD	<0.20	mg/L		---	---	0.20

QC Batch Name: TSS_SM-81228

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	106.1	%		80	---	120
LCSD Recovery for TSS	107.0	%		80	---	120
LCS/LCSD RPD for TSS	0.9	%		0.0	---	20

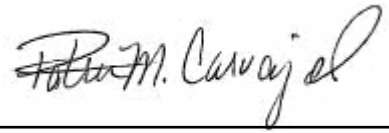
A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/8/2024 15:22:46

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT



Patricia M. Carvajal
Quality Assurance Supervisor

11/8/2024
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: 11/8/2024 15:22:46

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Customer: SARA - Martinez II 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: AA08528 Martinez II Effluent 1524-01
Sample Number: AB49530
Sample Matrix: Non Potable Water

Collection Date/Time: 10/31/2024 07:30
Receipt Date/Time: 10/31/2024 14:21

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.

Analysis Comments: **AB49530-A** CBOD-5 Day(Nitrification Inhibitor TCMP)
Sample storage exceeded 6 hours from collection time to analysis time. Total storage time 25 hours 45 minutes.
Laboratory storage temperature 2.6 °C.

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: 11/12/2024 10:30.45

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
AB49530-B	Ammonia as N - Non-distilled									
	SM 4500 NH3D-2021	√	<0.10	mg/L		0.10	81281	11/6/24	12:50	DAZ
AB49530-A	Total Suspended Solids									
	SM 2540D-2020	√	1.0	mg/L		1.0	81229	11/1/24	09:36	AM
AB49530-A	CBOD-5 Day(Nitrification Inhibitor TCMP)									
	SM 5210B-2016	√	2	mg/L	*	2	81226	11/1/24	09:15	GMM/FM/AG

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: 11/12/2024 10:30.45

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

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: AMM-NONDIST_090107-81281

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LOQ Recovery for Non-Distilled Ammonia	121.0	%		70	---	130
MB Result for Non-Distilled Ammonia	<0.10	mg/L		---	---	0.100
LCS Recovery for Non-Distilled Ammonia	105.0	%		80	---	120
LCSD Recovery for Non-Distilled Ammonia	107.0	%		80	---	120
LCS/LCSD RPD for Non-Distilled Ammonia	1.9	%		0.0	---	20

QC Batch Name: CBOD-81226

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
LCS RSD for CBOD	3.6	%		0.0	---	15.4
LCSD Result for CBOD	215	mg/L		167.5	---	228.5
LCST Result for CBOD	206	mg/L		167.5	---	228.5
Mean LCS Result for CBOD	207	mg/L		167.5	---	228.5
MB Result for CBOD	0.49	mg/L	A	---	---	0.20
MB Mean Result for CBOD	0.520	mg/L	A	---	---	0.20
LCS Result for CBOD	200	mg/L		167.5	---	228.5
MB Result for CBOD	0.54	mg/L	A	---	---	0.20

QC Batch Name: TSS_SM-81229

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
MB Result for TSS	<1.0	mg/L		---	---	1
LCS Recovery for TSS	106.1	%		80	---	120
LCSD Recovery for TSS	107.0	%		80	---	120
Sample RPD for TSS	9.5	%		0.0	---	20
LCS/LCSD RPD for TSS	0.9	%		0.0	---	20

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: 11/12/2024 10:30.45



Jeanette Hernandez
Senior Quality Assurance Specialist

11/12/2024
Date

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

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

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/12/2024 10:30.45

OCTOBER 2024 — MARTINEZ II WWTP DAILY SAMPLES

DATE	EFFLUENT FLOW	COMP EFF. FLOW MGD	RAW D.O.	RAW TEMP	RAW pH				CORR	EFFLUENT D.O.	EFFLUENT TEMP	EFFLUENT PH		$CBOD_5$	NH_3	TSS	E. COLI	INT	TEST TIME pH	TEST TIME D.O.
1	2,192,648													4	2.000	2.0	1	JM		
2	2,192,774		0.28	30.0	7.8					5.21	24.1	7.7		2	1.510	3.0	1	JM	9:50 AM	8:40 AM
3	1,961,864													2	1.150	2.1	1	JM		
4	2,165,227																4	JM		
5	2,258,838																2	JV		
6	2,408,490																1	JV		
7	2,260,667																1	JM		
8	2,039,697		0.50	29.8	7.9					5.16	27.7	7.7					1	JM	8:40 AM	8:38 AM
9	2,012,586																1	JM		
10	1,867,790		0.65	29.5	7.8					6.47	27.4	7.8		2	1.230	2.4	1	AZ	7:21 AM	7:10 AM
11	2,051,406													2	0.331	1.8	1	JM		
12	2,126,818																1	JM		
13	2,310,462																1	JM		
14	2,335,545													2	1.920	1.7	1	JM		
15	2,130,428		0.39	29.7	7.9					5.73	27.4	7.6		2	2.050	1.8	1	JM	8:05 AM	8:00 AM
16	2,115,491		0.36	29.6	7.8					5.66	25.5	7.7					1	JM	9:59 AM	8:48 AM
17	1,997,459																1	JM		
18	1,967,347																1	JM		
19	2,054,994																1	JV		
20	2,298,819																1	JV		
21	2,287,941																2	JM		
22	2,079,742													2	0.366	1.1	1	JM		
23	2,100,605													2	0.161	1.0	1	JM		
24	2,070,682																1	JM		
25	2,194,975																1	JM		
26	2,236,528																1	JV		
27	2,456,163																1	JV		
28	2,333,516		0.50	29.6	8.0					6.98	27.1	7.4					1	AZ	7:24 AM	7:40 AM
29	2,296,361																1	JM		
30	2,211,108		0.49	29.3	7.8					6.41	27.3	7.6		2	0.124	1.0	1	JM	8:14 AM	8:09AM
31	2,382,881		0.39	29.4	7.7					6.21	27.5	7.6		2	0.100	1.0	1	JM	11:11 AM	8:50 AM
AVG	**2,174,189**													2.2	0.995	1.7	1			
MAX	**2,456,163**		0.65		8.0				MAX	***6.98***	MAX	***7.8***		4	2.050	3.0	***4***			
MIN	**1,867,790**		0.28		7.7				MIN	***5.16***	MIN	***7.4***								

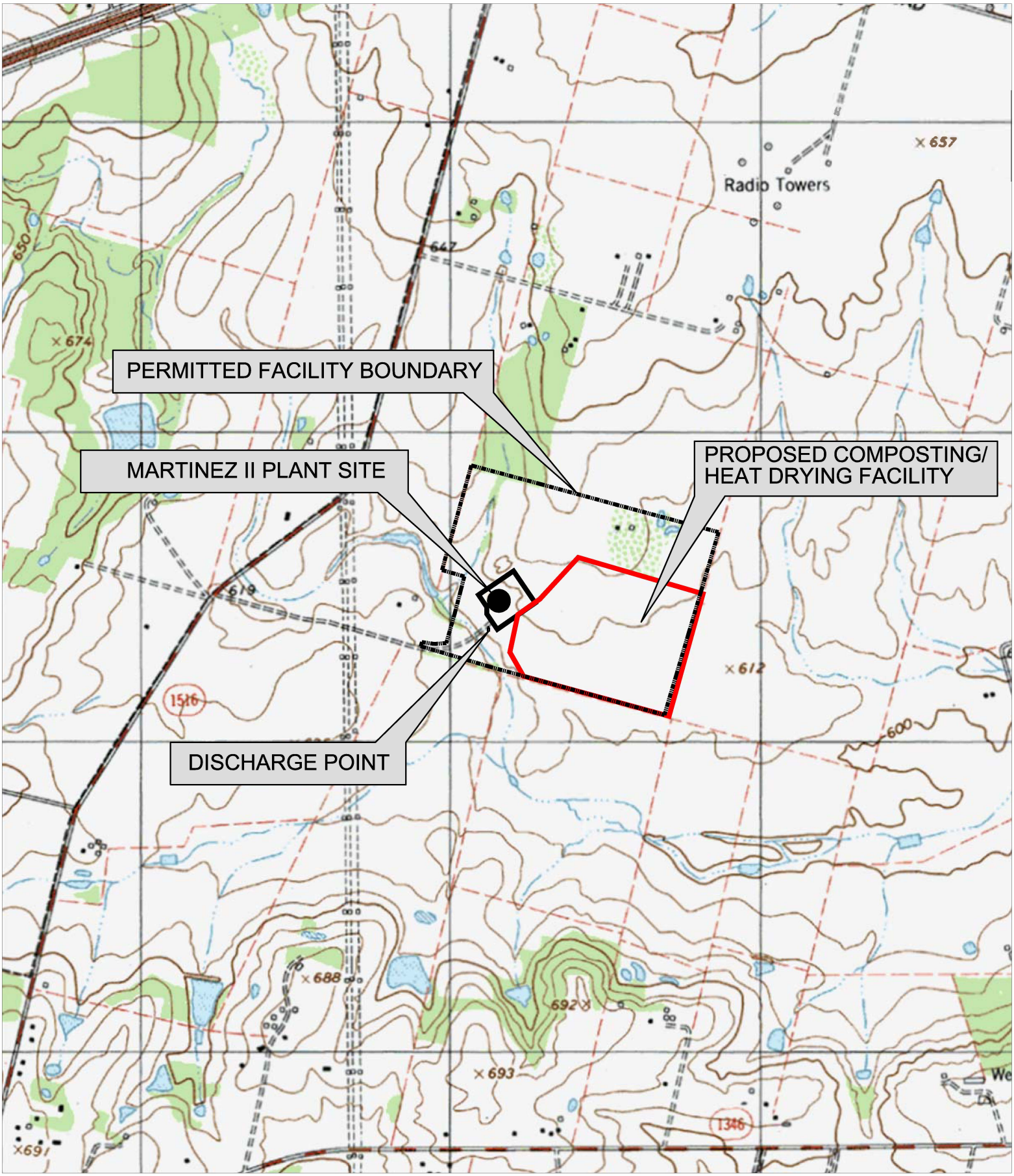
Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 14

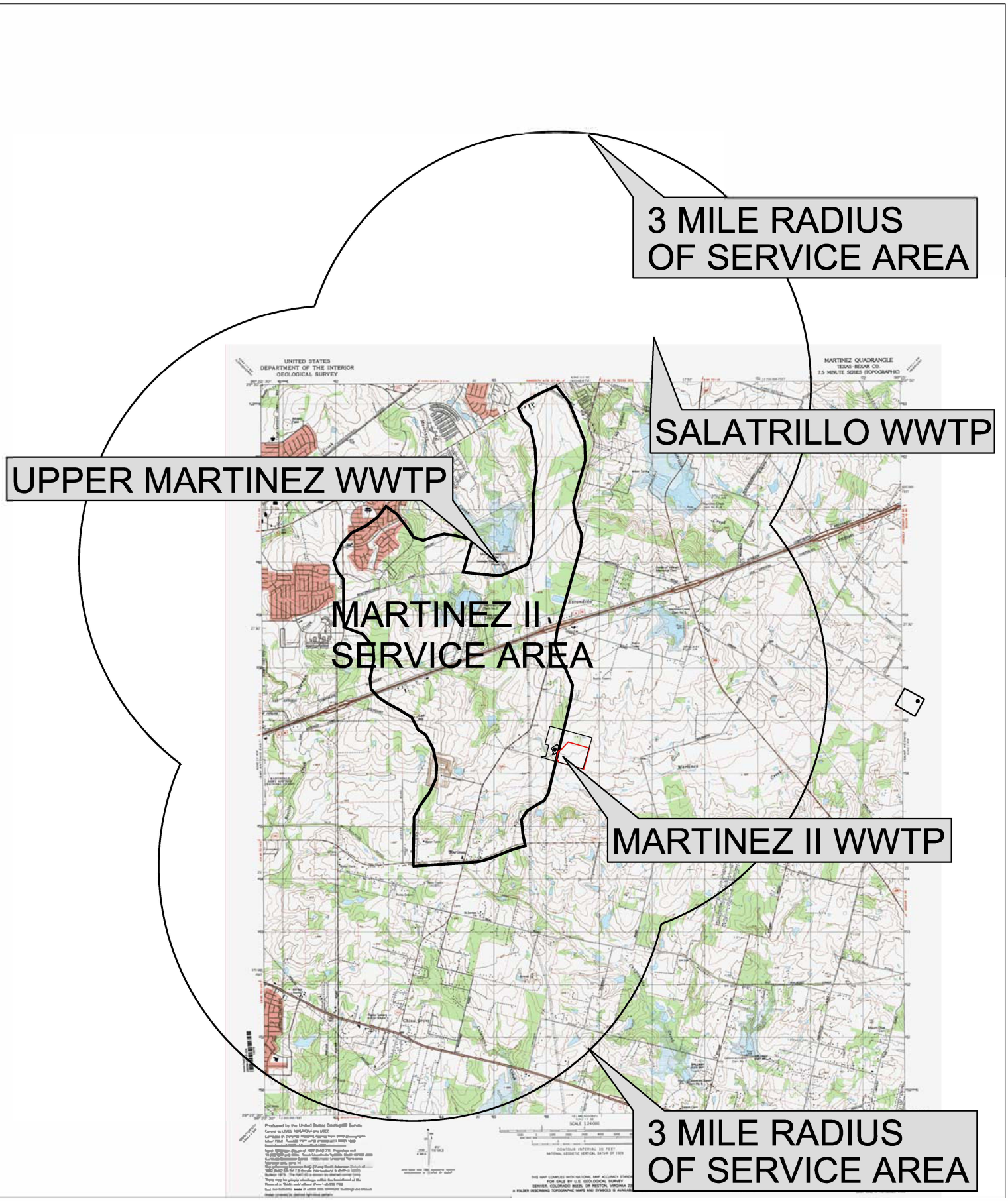
Site Drawings

Reference: Domestic Technical Report 1.0

Section 3



Facility Site Drawing
Attachment 14A



1.5 0 1.5 3 Miles

N
W E
S

Martinez II WWTP Service Area Map Attachment 14B

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 15

Sewage Sludge Management Plan

Reference: Domestic Technical Report 1.0

Section 6, Item G (1)

Attachment 15

Sludge Maintenance

Sewage Sludge Solids Management Plan

Sewage Sludge Handling and Treatment Units/Processes:

Two - 6,500 gallon (each) tanker trucks to haul liquid sludge when necessary.

One - 3,300 gallon tanker truck to haul liquid sludge when necessary.

One - Three (3) meter belt filter press at the Martinez II WWTP.

One - Progressing cavity BFP sludge feed pump at the Martinez II WWTP with an adjustable speed pump with a rated flow range of 100-650 gpm, not to exceed 400 rpm.

One - Polymer preparation and feed systems for the belt filter press dewatering unit at the Martinez II WWTPs.

One - Belt wash water booster pump, and end suction centrifugal pumps at the Martinez II WWTP.

One - Dewatered sludge belt conveyor at the Martinez II WWTP, 24 inches wide, troughed belt, no cleats or sidewalls, and 20 degrees maximum incline.

Two - Dump trucks: Two (2) 12 cubic yard capacity.

Three - Roll-off trucks for transporting dewatered sludge roll-off containers.

Four - 20 cubic yard roll-off containers.

Six - 25 cubic yard roll-off containers.

Four - 30 cubic yard roll-off containers.

15. Sludge Maintenance
(cont'd)

Sewage Sludge Solids Management Plan

Calculations Showing Amounts of Dry Solids Generated at the MII WWTP:

Flow Rate		BOD Removed			BOD Removed			Dry Solids Produced
Flow (% of Total)		mg/l			lb			lb/day
3.5 MGD (100%)	X	193	X	8.34	= 5,634	X	.70 =	3,944
2.63 MGD (75%)	X	193	X	8.34	= 4,233	X	.70 =	2,963
1.75 MGD (50%)	X	193	X	8.34	= 2,817	X	.70 =	1,972
0.88 MGD (25%)	X	193	X	8.34	= 1,416	X	.70 =	991

Operating Range for Mixed Liquor Suspended Solids:

The target operating range for mixed liquor suspended solids (MLSS) in the zone is 2,000 – 4,000 mg/l.

Solids Removal From Wastewater and Sludge Treatment Processes:

Activated sludge is thickened in the secondary clarifiers to produce a 0.75 to 1.25 % TS waste activated sludge concentration by reducing the return activated sludge rates. It is then pumped from the secondary clarifier to an existing WAS pump station, and then to the on-site dewatering facility where it will be mixed with polymer, then dewatered through a two (2) meter belt press having sufficient capacity for all future sludge flows. The following describes the final sludge disposal process in more detail.

15. Sludge Maintenance
(cont'd)

Sewage Sludge Solids Management Plan

SARA maintains one (1) option for the final disposal of biosolids at the SARA permitted Gardenville/Martinez II Recycling Facility, and maintains landfilling as a back-up option. These methods are described as follows:

1. The dewatered sludge is stabilized at the Gardenville/Martinez II Recycling Facility located on the permitted site (WQ0010749-004). At this facility, the dewatered sludge will either be composted or heat dried to a Class 'A' level of pathogen reduction meeting the Federal and State requirements for both pathogen reduction and vector attraction reduction. Both methods fall under "Alternative 5" of the 30 TAC Chapter 312 Class 'A' Pathogen Reduction, or a "Process to Further Reduce Pathogens" (PFRP) methods, and are described as follows:

    a. Windrow Composting:
        i. PFRP Pathogen Reduction Description: Dewatered sludge is windrow composted verifying that temperatures exceed 55 degrees Celsius for fifteen (15) days or longer with five (5) turnings during the high temperature period.
        ii. Vector Attraction Reduction: By default using the PFRP method described above, meeting 30 TAC Chapter 312 Vector Attraction Reduction compliance alternative (5) where the sewage sludge is treated in an aerobic process for 14 days or longer where the temperature of the sewage sludge is higher than 40 degrees Celsius and the average is above 45 degrees Celsius during that time.
        iii. Fecal coliform densities is monitored to demonstrate that concentrations are less than 1,000 Most Probable Number per gram of total solids (dry weight basis).

Biosolids treated to Class 'A' levels described above will be distributed and marketed to wholesale and retail customers in the landscaping market.

15. Sludge Maintenance
(cont'd)

Sewage Sludge Solids Management Plan

2. Dewatered biosolids from the Martinez II WWTP may also be disposed at the Republic Services (BFI) Tessman Road Municipal Solid Waste Landfill, TCEQ Permit No. 1410-A) for final disposal should the option described above not be available.

Quantity and Schedule of Solids Removal:

Sludge will be removed from the system as needed, based on information obtained from process control practices. Tests will be conducted at weekly and daily intervals to determine the quality, concentration, and settleability of the sludge. Based on these sound principles, sludge will be removed from the process to obtain the best quality effluent the plant is capable of producing.

As described previously, sludge removed from the process will be trucked away for further treatment and reuse or disposal.

Identification of Disposal Site and Solids Disposal Documentation:

Disposal Sites:
As described earlier, the dewatered sludge may either be processed at the Martinez II WWTP to a Class 'A' level, followed by distribution and marketing of the end products. The Martinez II WWTP is located at 1720 South Farm-to-Market (F.M.) Road 1516, approximately 1.6 miles south-southeast of the intersection of Interstate Highway (I.H.) 10 and F.M. Road 1516 in Bexar County Texas (Latitude: 29 degrees 26' 05" N / Longitude: 98 degrees 19' 03" W).

The Republic Services (BFI) Landfill site is located west of F.M. 1516 at 7790 Tessman Road, approximately 2.25 miles south of the intersection of I.H. 10 and F.M. 1516 in Bexar County, Texas (Latitude: 29 degrees 26' 00" N / Longitude: 98 degrees 20' 24" W).

System of Documentation:

The quantity of waste activated sludge transported away from the treatment facility will be documented. Representative samples of the sludge are tested for percent total solids (% TS) content, and the total gallons will then be multiplied by 8.34 and the % TS concentration to determine the dry weight in pounds.

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 6

Domestic Technical Report 1.0

And

Domestic Technical Report 2.0

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): 3.5

2-Hr Peak Flow (MGD): 8.75

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: 04/19/2013

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**.

See Attachment 11

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment 12		

C. Process Flow Diagram

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

Attachment: 13

Section 3. Site Information and Drawing (Instructions Page 43)

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

- Latitude: 29.436779
- Longitude: -98.318632

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

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

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

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

Attachment: 14

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

Portions of East Bexar County.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
M**artinez II**	San Antonio River Authority	**Publicly Owned**	25,338
		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.

N/A

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: 09/16/1996

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☒ Yes ☐ No

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

TXR05 K739 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.
See Attachment 15

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.

Started accepting sludge in 2010. 900, 000 gallons of sludge are accepted each month with a 842mg/l BOD5 concentration of sludge. Design is 200 mg/l BOD5 of influent from the collection system. This information has changed since last permit action.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

N/A

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

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

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

☐ Yes ☒ No

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

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	2.2	4	11	Comp	October 2024
Total Suspended Solids, mg/l	1.7	3	11	Comp	October 2024
Ammonia Nitrogen, mg/l	0.995	2.050	11	Comp	October 2024
`Nitrate Nitrogen, mg/l	0.3	0.3	1	Comp	10/1/2024 11:40am
Total Kjeldahl Nitrogen, mg/l	6	6	1	Comp	10/1/2024 11:40am
Sulfate, mg/l	79	79	1	Comp	10/1/2024 11:40am
Chloride, mg/l	133	133	1	Comp	10/1/2024 11:40am
Total Phosphorus, mg/l	3.10	3.26	2	Comp	October 2024
pH, standard units	7.4 min	7.8 max	8	Grab	October 2024
Dissolved Oxygen*, mg/l	5.16 min	6.98 max	8	Grab	October 2024
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
E.coli (CFU/100ml) freshwater	1	4	31	Grab	October 2024
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	548	548	1	Comp	10/1/2024 11:40am
Electrical Conductivity, µmohs/cm, †	996	966	1	Comp	10/1/2024 11:40am
Oil & Grease, mg/l	<5	<5	1	Grab	10/1/2024 11:40am
Alkalinity ($CaCO_3$)*, mg/l	186	186	1	Comp	10/1/2024 11:40am

*TPDES permits only
†TLAP permits only

See Attachment 16

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Joe Martinez

Facility Operator's License Classification and Level: Class B

Facility Operator's License Number: WW0057434

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	On-Site Owner or Operator	Bulk	1000	Class A: PFRP Composting	Option 5: Aerobic process for 14 days at >40C
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: On Site Compost Facility / Republic, Tessman Rd. Landfill

TCEQ permit or registration number: WQ0010749-004 / Permit No. 1410

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 See Attachment 9

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. R10749-004

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 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: 1-7-25

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 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.

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 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
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

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

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

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 7A

Reference: 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: Oct 1 2024 @ 11:40

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	19		1	2.5
Anthracene	<10		1	10
Antimony	<5		1	5
Arsenic	<0.5		1	0.5
Barium	26		1	3
Benzene	<10		1	10
Benzidine	<50		1	50
Benzo(a)anthracene	<5		1	5
Benzo(a)pyrene	<5		1	5
Bis(2-chloroethyl)ether	<10		1	10
Bis(2-ethylhexyl)phthalate	<10		1	10
Bromodichloromethane	<10		1	10
Bromoform	<10		1	10
Cadmium	<1		1	1
Carbon Tetrachloride	<2		1	2
Carbaryl	<5		1	5
Chlordane*	<0.2		1	0.2
Chlorobenzene	<10		1	10
Chlorodibromomethane	<10		1	10

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02		1	0.02
Endosulfan Sulfate	<0.1		1	0.1
Endrin	<0.02		1	0.02
Ethylbenzene	<10		1	10
Fluoride	270		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	<2		1	2
Nitrate-Nitrogen	<100		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)	NA		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	21		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: Oct 1 2024 @ 11:40

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5		1	5
Arsenic	<0.5		1	0.5
Beryllium	<0.5		1	0.5
Cadmium	<1		1	1
Chromium (Total)	<3		1	3
Chromium (Hex)	<3		1	3
Chromium (Tri) **(*1)**	<3		1	N/A
Copper	3		1	2
Lead	<0.5		1	0.5
Mercury	<0.005		1	0.005
Nickel	<2		1	2
Selenium	<5		1	5
Silver	<0.5		1	0.5
Thallium	<0.5		1	0.5
Zinc	21		1	5
Cyanide **(*2)**	<10		1	10
Phenols, Total	17		1	10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50		1	50
Acrylonitrile	<50		1	50
Benzene	<10		1	10
Bromoform	<10		1	10
Carbon Tetrachloride	<2		1	2
Chlorobenzene	<10		1	10
Chlorodibromomethane	<10		1	10
Chloroethane	<50		1	50
2-Chloroethylvinyl Ether	<10		1	10
Chloroform	<10		1	10
Dichlorobromomethane [Bromodichloromethane]	<10		1	10
1,1-Dichloroethane	<10		1	10
1,2-Dichloroethane	<10		1	10
1,1-Dichloroethylene	<10		1	10
1,2-Dichloropropane	<10		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10		1	10
1,2-Trans-Dichloroethylene	<10		1	10
Ethylbenzene	<10		1	10
Methyl Bromide	<50		1	50
Methyl Chloride	<50		1	50
Methylene Chloride	<20		1	20
1,1,2,2-Tetrachloroethane	<10		1	10
Tetrachloroethylene	<10		1	10
Toluene	<10		1	10
1,1,1-Trichloroethane	<10		1	10
1,1,2-Trichloroethane	<10		1	10
Trichloroethylene	<10		1	10
Vinyl Chloride	<10		1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<10		1	10
2,4-Dichlorophenol	<10		1	10
2,4-Dimethylphenol	<10		1	10
4,6-Dinitro-o-Cresol	<50		1	50
2,4-Dinitrophenol	<50		1	50
2-Nitrophenol	<20		1	20
4-Nitrophenol	<50		1	50
P-Chloro-m-Cresol	<10		1	10
Pentalchlorophenol	<5		1	5
Phenol	<10		1	10
2,4,6-Trichlorophenol	<10		1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<10		1	10
Acenaphthylene	<10		1	10
Anthracene	<10		1	10
Benzidine	<50		1	50
Benzo(a)Anthracene	<5		1	5
Benzo(a)Pyrene	<5		1	5
3,4-Benzofluoranthene	<10		1	10
Benzo(ghi)Perylene	<20		1	20
Benzo(k)Fluoranthene	<5		1	5
Bis(2-Chloroethoxy)Methane	<10		1	10
Bis(2-Chloroethyl)Ether	<10		1	10
Bis(2-Chloroisopropyl)Ether	<10		1	10
Bis(2-Ethylhexyl)Phthalate	<10		1	10
4-Bromophenyl Phenyl Ether	<10		1	10
Butyl benzyl Phthalate	<10		1	10
2-Chloronaphthalene	<10		1	10
4-Chlorophenyl phenyl ether	<10		1	10
Chrysene	<5		1	5
Dibenzo(a,h)Anthracene	<5		1	5
1,2-(o)Dichlorobenzene	<10		1	10
1,3-(m)Dichlorobenzene	<10		1	10
1,4-(p)Dichlorobenzene	<10		1	10
3,3-Dichlorobenzidine	<5		1	5
Diethyl Phthalate	<10		1	10
Dimethyl Phthalate	<10		1	10
Di-n-Butyl Phthalate	<10		1	10
2,4-Dinitrotoluene	<10		1	10
2,6-Dinitrotoluene	<10		1	10
Di-n-Octyl Phthalate	<10		1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<20		1	20
Fluoranthene	<10		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	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 "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 7B

Reference: Domestic Technical Report 4.0

Pollutant Analysis

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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 1 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
CBOD5	4	mg/L	3	10/02/2024 14:38	SM 5210 B	GQM
Chloride_IC	133	mg/L	2	10/02/2024 10:54	EPA 300.0	JAS
Conductivity, Specific	996	µmhos/cm at 25° C	1	10/02/2024 09:01	SM 2510B	LCC
Nitrate-N_IC	0.3	mg/L	0.2	10/02/2024 10:54	EPA 300.0	JAS
Phosphorus, Total	3.26	mg/L	0.10	10/04/2024 04:50	SM 4500-P/B/E	JAS
Sulfate_IC	79	mg/L	2	10/02/2024 10:54	EPA 300.0	JAS
Total Dissolved Solids	548	mg/L	10	10/03/2024 11:30	SM 2540C	CLH/PML
Total Suspended Solids	2	mg/L	1	10/03/2024 11:00	SM 2540 D	PML/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	175	167 - 228	
Chloride_IC	1	10	95	98	99	102	102	85 - 115	
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N_IC	19	20	70	97	118	130	106	85 - 115	
Phosphorus, Total	<1	10	91	98	99	103	100	85 - 115	
Sulfate_IC	<1	10	94	100	100	101	105	85 - 115	
Total Dissolved Solids	4.838	10	N/A	N/A	N/A	N/A			
Total Suspended Solids	4	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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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Ammonia-N (ISE)	2.0	mg/L	0.1	10/02/2024 13:00	SM 4500-NH3 D	BMR
Fluoride_IC	0.27	mg/L	0.20	10/02/2024 10:54	EPA 300.0	JAS
Kjeldahl-N, Total	6	mg/L	1	10/11/2024 12:30	SM 4500-N B/C	BMR
Alkalinity, Total (@pH 4.5)	186	mg/L	10	10/04/2024 07:05	SM 2320 B	LCC
Arsenic/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Barium/ICP (Total)	0.026	mg/L	0.010	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Cadmium/ICP (Total)	<0.001	mg/L	0.001	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Chromium/ICP (Total)	<0.003	mg/L	0.003	10/03/2024 14:14	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	107	107	120	92	85 - 115	
Fluoride_IC	1	10	87	103	104	105	106	85 - 115	
Kjeldahl-N, Total	5	10	90	99	94	109	106	85 - 115	<1
Alkalinity, Total (@pH 4.5)	1	10	95	101	99	107	98	85 - 115	
Arsenic/ICP MS	2	20	70	114	112	130	101	85 - 115	
Barium/ICP (Total)	<1	20	75	90	90	125	100	85 - 115	
Cadmium/ICP (Total)	<1	20	75	98	98	125	100	85 - 115	
Chromium/ICP (Total)	1	20	75	94	95	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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797** **Page 3 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Copper/ICP (Total)	0.003	mg/L	0.002	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Lead/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Aluminum/ICP (Total)	0.019	mg/L	0.0025	10/21/2024 14:07	EPA 200.7 / 6010 B	DJL
Beryllium/ICP (Total)	<0.0005	mg/L	0.0005	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Trivalent Chromium	<0.003	mg/L	N/A	10/03/2024 14:14	Calculation	DJL
Hexavalent Chrome	<0.003	mg/L	0.003	10/01/2024 15:25	SM 3500-Cr B	DJL
Nickel/ICP (Total)	<0.002	mg/L	0.002	10/03/2024 14:14	EPA 200.7 / 6010 B	DJL
Zinc/ICP (Total)	0.021	mg/L	0.005	10/03/2024 14:14	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	96	96	125	95	85 - 115	
Lead/ICP MS	<1	20	70	113	114	130	105	85 - 115	
Aluminum/ICP (Total)	<1	20	75	100	100	125	100	85 - 115	
Beryllium/ICP (Total)	<1	20	75	100	100	125	100	85 - 115	
Trivalent Chromium	N/A	N/A	N/A			N/A			
Hexavalent Chrome	<1	20	75	98	99	125	99	85 - 115	
Nickel/ICP (Total)	<1	20	75	92	92	125	100	85 - 115	
Zinc/ICP (Total)	<1	20	75	95	95	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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 4 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Antimony/ICP MS	<0.005	mg/L	0.005	10/09/2024 11:38	EPA 200.8	DJL
Thallium/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	EPA 200.8	DJL
Selenium/ICP MS	<0.005	mg/L	0.005	10/09/2024 11:38	EPA 200.8	DJL
Silver/ICP MS	<0.0005	mg/L	0.0005	10/09/2024 11:38	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	1	20	70	110	109	130	105	85 - 115	
Thallium/ICP MS	<1	20	70	108	109	130	100	85 - 115	
Selenium/ICP MS	2	20	70	114	111	130	102	85 - 115	
Silver/ICP MS	<1	20	70	97	97	130	101	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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776797 Page 5 of 5** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/22/2024**

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.

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

www.pcslab.net
chuck@pcslab.net

1532 Universal City Blvd
Universal City, TX 78148-3318

Main: 210-340-0343
Fax: 210-658-7903

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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: Martinez II Major Permit** **Sample ID: Effluent** **Matrix: Non-Potable Water** **Date/Time Taken: 10/1/2024 11:40**	**PCS Sample #: 776798 Page 1 of 1** **Date/Time Received: 10/1/2024 14:44** **Report Date: 10/17/2024** **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	10/03/2024 10:00	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.)	3	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.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits

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POLLUTION CONTROL SERVICES

Chain of Custody Number: 776797

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:
Martinez II - TCEQ Major Permit Renewal
Report "Soils" ☐ As Is ☐ Dry Wt.

Collected By: JOE LUIS MARTINEZ JR

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	CBOD, TSS, TDS, SO4, Cl, SpCond HexCr, TriCr, NO3N, Talk, F;	NH3N, TKN, TPO4P, Metals*	604.1 Hex, Herb 615, Pest 1657, 608, 617, 632, SVOC 625	FOG (HEM)	VOC 624	CN-A	Phenol (Dist)	Low Level Hg	PCS Sample Number
Effluent	Start: 10-1-2024 End:	Start: 11:40AM End:		■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						776797 ☒S ☐B ☒N ☐HEM Other:
Effluent	Start: 10-1-2024 End:	Start: 11:40AM End:		☐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	776798 ☒S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐									☐S ☐B ☐N ☐HEM Other:

Requested Analysis

Instructions/Comments:
*Al, Ba, Be, Cd, Cr, Cu, Ni, Zn, SbMS, AsMS, PbMS, SeMS, AgMS, TlMS

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: Joe Luis Martinez Jr	Date: 10.1.2024	Time: 11:40AM	Received By:		Date: 10-1-24	Time: 11:50am
Relinquished By:	Date: 10-1-24	Time: 12:31pm	Received By: Carlos Vasquez		Date: 10.1.24	Time: 12:31pm
Carlos Vasquez	10.01.24	2:25pm	Xavier Gonzales		10-1-24	2:25 PM
Xavier Gonzales	10-1-24	2:44PM	Jason Aguilera		10-1-24	1444

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

1120108 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·LAB Corp
2600 Dudley Road
Kilgore, TX 75662

Relinquished by: Lauren Wallgren FEDEX
Date/Time: 10/01/2024 @ 1530
Received by: mccay from FedEx
Date/Time: 10/2/24 1030

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
776797	10/01/2024	1140	Herbicides 615 (379738)	Ice	Std
776798	10/01/2024	1140	Phenols, Distillable (& 731)	H_2SO_4	Std

Comments/Special Instructions: _____

Unless otherwise requested, send results and invoice to:

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318

Authorized by: _____ Date: 10.1.24

C:\Users\Lauren\Desktop\SubOut COC's\776713sub2.docx

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 10/15/2024
9:36

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1120108_r03_03_ProjectResults	SPL Kilgore Project P:1120108 C:PCSL Project Results t:304	3
1120108_r10_05_ProjectQC	SPL Kilgore Project P:1120108 C:PCSL Project Quality Control Groups	2
1120108_r99_09_CoC__1_of_1	SPL Kilgore CoC PCSL 1120108_1_of_1	2
	Total Pages:	8

Email: Kilgore.ProjectManagement@spllabs.com

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

SAMPLE CROSS REFERENCE

Project
1120108

Printed 10/15/2024 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
2339730	*776797*	10/01/2024	11:40:00	10/02/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Prepared Bottle: 2 mL Autosampler Vial (Batch 1141672) Volume: 10.00000 mL <== Derived from 01 (913 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	02	1141672	10/08/2024	1142417	10/10/2024

Sample	Sample ID	Taken	Time	Received
2339731	*776798*	10/01/2024	11:40:00	10/02/2024

Bottle 01 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 02 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1140977) Volume: 6.00000 mL <== Derived from 01 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 420.4 1	02	1140977	10/03/2024	1141488	10/07/2024

Email: Kilgore.ProjectManagement@spllabs.com

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Suite 100
Universal City, TX 78148

Printed: 10/15/2024

RESULTS

Sample Results

2339730 776797 Received: 10/02/2024

Non-Potable Water | Collected by: Client | Pollution Control Se | PO:
Taken: 10/01/2024 11:40:00

EPA 615 Prepared: 1141672 10/08/2024 10:30:00 Analyzed 1142417 10/10/2024 16:28:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.548	ug/L	0.548		94-75-7	02
NELAC	2,4,5-TP (Silvex)	<0.329	ug/L	0.329	X	93-72-1	02

2339731 776798 Received: 10/02/2024

Non-Potable Water | Collected by: Client | Pollution Control Se | PO:
Taken: 10/01/2024 11:40:00

EPA 420.4 1 Prepared: 1140977 10/03/2024 08:00:54 Analyzed 1141488 10/07/2024 09:41:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	0.017	mg/L	0.005			02

Sample Preparation

2339730 776797 Received: 10/02/2024

10/01/2024

EPA 615 Prepared: 1141672 10/08/2024 10:30:00 Analyzed 1141672 10/08/2024 10:30:00 CRS

NELAC	Esterification of Sample	10/913	ml					01

EPA 615 Prepared: 1141672 10/08/2024 10:30:00 Analyzed 1142417 10/10/2024 16:28:00 KAP

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Chuck Wallgren
1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Printed: 10/15/2024

2339730 **776797** *Received:* 10/02/2024

10/01/2024

EPA 615	*Prepared:*	*1141672*	*10/08/2024*	*10:30:00*	*Analyzed*	*1142417*	*10/10/2024*	*16:28:00*	*KAP*
NELAC **Herbicides by GC**	**Entered**								02

2339731 **776798** *Received:* 10/02/2024

10/01/2024

EPA 420.4 1	*Prepared:*	*1140977*	*10/03/2024*	*08:00:54*	*Analyzed*	*1140977*	*10/03/2024*	*08:00:54*	*SRJ*
NELAC **Phenol Distillation**	**6/6**	**ml**							01

Qualifiers:

X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

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1
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Printed: 10/15/2024

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

PCSL-C

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

Project
1120108

Printed 10/15/2024

Analytical Set 1141488 — EPA 420.4 1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1140977	0.004	0.003	0.005	mg/L	126855191

CCV

Parameter	Reading	Known	Units	Recovery%	Limits%	File
Phenolics, Total Recoverable	0.200	0.200	mg/L	100	90.0 - 110	126855140
Phenolics, Total Recoverable	0.195	0.200	mg/L	97.5	90.0 - 110	126855149
Phenolics, Total Recoverable	0.188	0.200	mg/L	94.0	90.0 - 110	126855154
Phenolics, Total Recoverable	0.185	0.200	mg/L	92.5	90.0 - 110	126855161
Phenolics, Total Recoverable	0.185	0.200	mg/L	92.5	90.0 - 110	126855172
Phenolics, Total Recoverable	0.180	0.200	mg/L	90.0	90.0 - 110	126855183
Phenolics, Total Recoverable	0.181	0.200	mg/L	90.5	90.0 - 110	126855190
Phenolics, Total Recoverable	0.180	0.200	mg/L	90.0	90.0 - 110	126855192

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Phenolics, Total Recoverable	2336980	0.041	0.045	mg/L	9.30	20.0
Phenolics, Total Recoverable	2339031	0.033	0.032	mg/L	3.08	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.196	0.200	mg/L	98.0	90.0 - 110	126855139

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phenolics, Total Recoverable	1140977	0.210	0.211	0.200	90.0 - 110	105	106	mg/L	0.475	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Phenolics, Total Recoverable	2339031	0.211	0.032	0.200	mg/L	89.5	90.0 - 110	126855159	*

Analytical Set 1142417 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1141672	ND	15.9	50.0	ug/L	126875099
2,4,5-TP (Silvex)	1141672	ND	8.93	30.0	ug/L	126875099

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	140	150	ug/L	93.3	80.0 - 115		126875098
2,4 Dichlorophenoxyacetic acid	161	150	ug/L	107	80.0 - 115		126875110
2,4 Dichlorophenoxyacetic acid	166	150	ug/L	111	80.0 - 115		126875112
2,4,5-TP (Silvex)	151	150	ug/L	101	80.0 - 115		126875098
2,4,5-TP (Silvex)	165	150	ug/L	110	80.0 - 115		126875110
2,4,5-TP (Silvex)	175	150	ug/L	116	80.0 - 115	*	126875112

QUALITY CONTROL

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1532 Universal City Blvd.
Suite 100
Universal City, TX 78148

Project
1120108

Printed 10/15/2024

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
2,4 Dichlorophenoxyacetic acid	1141672	116	111	100	0.100 - 319	116	111	ug/L	4.41	30.0
2,4,5-TP (Silvex)	1141672	89.8	95.3	100	0.100 - 244	89.8	95.3	ug/L	5.94	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4-Dichlorophenylacetic Acid		CCV	135	200	ug/L	67.5	0.100 - 313	126875098
2,4-Dichlorophenylacetic Acid		CCV	135	200	ug/L	67.5	0.100 - 313	126875110
2,4-Dichlorophenylacetic Acid		CCV	156	200	ug/L	78.0	0.100 - 313	126875112
2,4-Dichlorophenylacetic Acid	1141672	Blank	82.7	200	ug/L	41.4	0.100 - 313	126875099
2,4-Dichlorophenylacetic Acid	1141672	LCS	77.8	200	ug/L	38.9	0.100 - 313	126875100
2,4-Dichlorophenylacetic Acid	1141672	LCS Dup	81.3	200	ug/L	40.6	0.100 - 313	126875101
2,4-Dichlorophenylacetic Acid	2339730	Unknown	1.23	2.19	ug/L	56.2	0.100 - 313	126875102

* 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.)

1120108 CoC Print Group 001 of 001

ORIGIN ID:NIRA (210) 340-0343
CHUCK WALLGREN

1532 UNIVERSAL CITY BLVD. #100

UNIVERSAL CITY, TX 78148
UNITED STATES US

SHIP DATE: 01OCT24
ACTWGT: 35.00 LB
CAD: 112447368/INET4760
DIMS: 18x10x16 IN

BILL SENDER

TO SPL LAB KILGORE
SPL LAB KILGORE
2600 DUDLEY ROAD

KILGORE TX 75662
(903) 984-0551 REF: 3592
INV:
PO DEPT:

59CL/526H/C5C4

FedEx Express

WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7789 5257 5467

AH GGGA

75662
TX-US SHV

10/2 1030 HJJ
Date Time Tech
Temp: 3.4/3.5 C

Therm#: 6443 Corr Fact: 0.1 C

POLLUTION CONTROL SERVICES

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

2410029

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

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

Relinquished by: Lauren Wallgren
Date/Time: 10/01/2024
Via Holly Received by:
Date/Time: 10/2/24 - 0956

* Corrected copy * -LMW

	PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
01	776797	10/01/2024	11:40	604.1 Hexachlorophene	Ice	Std
	776797	----------	----	Semi Volatiles 625		----
	776797	----------	----	Pesticide 1657		----
	776797	----------	----	Pesticides 608		----
	776797	----------	----	Pesticides 617		----
	776797	----------	----	Pesticides 632		----
02	776798	10/01/2024	11:40	Cyanide, Amenable	NaOH, ICE	Std
	776798	----------	------	Volatiles 624	Ice	

Comments/Special Instructions: 0.8°C thermm #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: [signature] Date: 10.1.24

C:\Users\Lauren\Desktop\SubOut COC's\776797.docx

October 15, 2024

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

Order No.: 2410029

RE: PCS 776797, 776798

Dear Chuck Wallgren:

DHL Analytical, Inc. received 2 sample(s) on 10/2/2024 for the analyses presented in the following report.

Revision Number 1 for Work Order 2410029: This revision consists of correcting the sample identification for Cyanide, Amenable, per the client's request. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

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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FROM:
Chuck Wallgren
(210) 340-0343

1532 Universal City Blvd. #100

Universal City TX 78148
US

SHIP DATE: 01OCT24
ACTWGT: 55.00 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:

58CJ2/B264/C6C4

FedEx Ground

J243024071301uv

TRK# 7789 5251 4167

78664

9622 0019 0 (000 000 0000) 0 00 7789 5251 4167

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **Pollution Control Services** Date Received: **10/2/2024**

Work Order Number: **2410029** Received by: **KAO**

Checklist completed by: _____ 10/2/2024 Reviewed by: JH 10/2/2024
Signature Date 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 0.8

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:** *14-Oct-24*

CLIENT: Pollution Control Services
Project: PCS 776797
Lab Order: 2410029

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 RPD of Endrin aldehyde for the Matrix Spike Duplicate (2409209-01 MSD) was above the method control limits. This is flagged accordingly in the QC Summary Report. This compound was within method control limits in the associated LCS/MS. No further corrective action was taken.

For Volatiles Analysis, equal parts of four grabs were composited for Sample 776798.

For Dicofol Analysis, the peak tailing criteria for Pentachlorophenol was above the method control limits. The remaining tune criteria was within method control limits. No further corrective action was taken.

For Pesticides Analysis, the peak tailing criteria for Pentachlorophenol was above the method control limits. The remaining tune criteria was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: *14-Oct-24*

CLIENT: Pollution Control Services
Project: PCS 776797
Lab Order: 2410029

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2410029-01	776797		10/01/24 11:40 AM	10/02/2024
2410029-02	776798		10/01/24 11:40 AM	10/02/2024

DHL Analytical, Inc.

Date: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776797
Project:	PCS 776797, 776798	**Lab ID:**	2410029-01
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE BY LCMS		**E632**					Analyst: **RA**
Diuron	<0.0000296	0.0000296	0.0000788	N	mg/L	1	10/08/24 06:13 PM
Hexachlorophene	<0.000985	0.000985	0.00493	N	mg/L	1	10/08/24 06:13 PM
625.1 PCB BY GC/MS		**E625.1**					Analyst: **DEW**
Aroclor 1016	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1221	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1232	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1242	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1248	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1254	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Aroclor 1260	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Total PCBs	<0.0000974	0.0000974	0.000195		mg/L	1	10/07/24 02:20 PM
Surr: 2-Fluorobiphenyl	74.9	0	43-116		%REC	1	10/07/24 02:20 PM
Surr: 4-Terphenyl-d14	106	0	33-141		%REC	1	10/07/24 02:20 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Anthracene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Benzidine	<0.000974	0.000974	0.00389		mg/L	1	10/03/24 05:11 PM
Benzo[a]anthracene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Benzo[a]pyrene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Bis(2-chloroethyl)ether	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Bis(2-ethylhexyl)phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
Chrysene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
4,6-Dinitro-o-cresol	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
o-Cresol	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
p-Chloro-m-Cresol	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
m,p-Cresols	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
3,3'-Dichlorobenzidine	<0.000974	0.000974	0.00487		mg/L	1	10/03/24 05:11 PM
2,4-Dimethylphenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Di-n-butyl phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
Hexachlorobenzene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Hexachlorobutadiene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Hexachlorocyclopentadiene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Hexachloroethane	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Nitrobenzene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
N-Nitrosodiethylamine	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
N-Nitrosodi-n-butylamine	<0.000974	0.000974	0.00389		mg/L	1	10/03/24 05:11 PM
Pentachlorobenzene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Pentachlorophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 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: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776797
Project:	PCS 776797, 776798	**Lab ID:**	2410029-01
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Phenanthrene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Pyridine	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
1,2,4,5-Tetrachlorobenzene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2,4,5-Trichlorophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2-Chlorophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2,4-Dichlorophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2,4-Dinitrophenol	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
2-Nitrophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
4-Nitrophenol	<0.00195	0.00195	0.00389		mg/L	1	10/03/24 05:11 PM
Phenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2,4,6-Trichlorophenol	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Acenaphthene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Acenaphthylene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Benzo[b]fluoranthene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Benzo[g,h,i]perylene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Benzo[k]fluoranthene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Bis(2-chloroethoxy)methane	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Bis(2-chloroisopropyl)ether	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
4-Bromophenyl phenyl ether	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Butyl benzyl phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
2-Chloronaphthalene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
4-Chlorophenyl phenyl ether	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Dibenz[a,h]anthracene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Diethyl phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
Dimethyl phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
2,4-Dinitrotoluene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
2,6-Dinitrotoluene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Di-n-octyl phthalate	<0.00292	0.00292	0.00584		mg/L	1	10/03/24 05:11 PM
1,2-Diphenylhydrazine	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Fluoranthene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Fluorene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Indeno[1,2,3-cd]pyrene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Isophorone	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Naphthalene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
N-Nitrosodimethylamine	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
N-Nitrosodi-n-propylamine	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
N-Nitrosodiphenylamine	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Pyrene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 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: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776797
Project:	PCS 776797, 776798	**Lab ID:**	2410029-01
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
1,2,4-Trichlorobenzene	<0.000974	0.000974	0.00195		mg/L	1	10/03/24 05:11 PM
Surr: 2,4,6-Tribromophenol	106	0	10-123		%REC	1	10/03/24 05:11 PM
Surr: 2-Fluorobiphenyl	88.5	0	43-116		%REC	1	10/03/24 05:11 PM
Surr: 2-Fluorophenol	57.8	0	21-100		%REC	1	10/03/24 05:11 PM
Surr: 4-Terphenyl-d14	89.5	0	33-141		%REC	1	10/03/24 05:11 PM
Surr: Nitrobenzene-d5	98.8	0	35-115		%REC	1	10/03/24 05:11 PM
Surr: Phenol-d5	34.5	0	10-94		%REC	1	10/03/24 05:11 PM
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
4,4'-DDD	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
4,4'-DDE	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
4,4'-DDT	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Aldrin	<0.00000974	0.00000974	0.00000974		mg/L	1	10/08/24 02:45 AM
alpha-BHC (Hexachlorocyclohexane)	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
beta-BHC (Hexachlorocyclohexane)	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Carbaryl	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Chlordane	<0.0000584	0.0000584	0.000195	N	mg/L	1	10/08/24 02:45 AM
Chlorpyrifos	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
delta-BHC (Hexachlorocyclohexane)	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Diazinon	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Dieldrin	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Endosulfan I	<0.00000974	0.00000974	0.00000974		mg/L	1	10/08/24 02:45 AM
Endosulfan II	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Endosulfan sulfate	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Endrin	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Endrin aldehyde	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
gamma-BHC (Lindane)	<0.00000974	0.00000974	0.0000195		mg/L	1	10/08/24 02:45 AM
Guthion (Azinphosmethyl)	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Heptachlor	<0.00000974	0.00000974	0.00000974		mg/L	1	10/08/24 02:45 AM
Heptachlor epoxide	<0.00000974	0.00000974	0.00000974		mg/L	1	10/08/24 02:45 AM
Malathion	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Methoxychlor	<0.0000195	0.0000195	0.0000195	N	mg/L	1	10/08/24 02:45 AM
Mirex	<0.00000974	0.00000974	0.0000195	N	mg/L	1	10/08/24 02:45 AM
Parathion, ethyl	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Toxaphene	<0.000292	0.000292	0.000292		mg/L	1	10/08/24 02:45 AM
Demeton (O & S)	<0.00000974	0.00000974	0.0000292	N	mg/L	1	10/08/24 02:45 AM
Surr: 2-Fluorobiphenyl	56.3	0	43-116		%REC	1	10/08/24 02:45 AM

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: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776797
Project:	PCS 776797, 776798	**Lab ID:**	2410029-01
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**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	79.8	0	33-141		%REC	1	10/08/24 02:45 AM
DICOFOL IN WATER BY ASTM METHOD		**D5812-96MOD**					Analyst: **DEW**
Dicofol	<0.000195	0.000195	0.000390	N	mg/L	1	10/08/24 02:45 AM
NONYLPHENOL IN WATER BY ASTM METHOD		**D7065-17**					Analyst: **DEW**
Nonylphenol	<0.0681	0.0681	0.0974	N	mg/L	1	10/03/24 05:11 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: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776798
Project:	PCS 776797, 776798	**Lab ID:**	2410029-02
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**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	10/02/24 02:06 PM
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Bromodichloromethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Bromoform	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Carbon tetrachloride	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Chlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Chlorodibromomethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,2-Dibromoethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,1-Dichloroethene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Methylene chloride (DCM)	<0.00250	0.00250	0.00500		mg/L	1	10/02/24 02:06 PM
1,2-Dichloropropane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,3-Dichloropropene (cis)	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,3-Dichloropropene (trans)	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Methyl ethyl ketone	<0.00500	0.00500	0.0150		mg/L	1	10/02/24 02:06 PM
1,1,2,2-Tetrachloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/02/24 02:06 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/02/24 02:06 PM
1,1,1-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
1,1,2-Trichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Trichloroethene	<0.000600	0.000600	0.00100		mg/L	1	10/02/24 02:06 PM
TTHM (Total Trihalomethanes)	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Vinyl chloride	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Acrolein	<0.00500	0.00500	0.0150		mg/L	1	10/02/24 02:06 PM
Chloroethane	<0.00100	0.00100	0.00500		mg/L	1	10/02/24 02:06 PM
2-Chloroethylvinylether	<0.00600	0.00600	0.0100		mg/L	1	10/02/24 02:06 PM
1,1-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/02/24 02:06 PM
Methyl bromide	<0.00100	0.00100	0.00500		mg/L	1	10/02/24 02:06 PM
Methyl chloride	<0.00100	0.00100	0.00500		mg/L	1	10/02/24 02:06 PM
trans-1,2-Dichloroethylene	<0.000300	0.000300	0.00200		mg/L	1	10/02/24 02:06 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	72-119		%REC	1	10/02/24 02:06 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	10/02/24 02:06 PM
Surr: Dibromofluoromethane	103	0	85-115		%REC	1	10/02/24 02:06 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: *15-Oct-24*

CLIENT:	Pollution Control Services	**Client Sample ID:**	776798
Project:	PCS 776797, 776798	**Lab ID:**	2410029-02
Project No:		**Collection Date:**	10/01/24 11:40 AM
Lab Order:	2410029	**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	10/02/24 02:06 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Amenable to Chlorination	<0.0100	0.0100	0.0200		mg/L	1	10/09/24 05:29 PM
Cyanide, Total	<0.0100	0.0100	0.0200		mg/L	1	10/09/24 05:29 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *14-Oct-24*

CLIENT: Pollution Control Services
Work Order: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_241008A

The QC data in batch 117491 applies to the following samples: 2410029-01B

Sample ID: **LCS-117491** Batch ID: **117491** TestNo: **E632** Units: **mg/L**
SampType: **LCS** Run ID: **LCMS2_241008A** Analysis Date: **10/8/2024 4:54:11 PM** Prep Date: **10/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00191	0.0000800	0.00200	0	95.4	35	145			N
Hexachlorophene	0.00200	0.00500	0.00200	0	100	35	145			N

Sample ID: **LCSD-117491** Batch ID: **117491** TestNo: **E632** Units: **mg/L**
SampType: **LCSD** Run ID: **LCMS2_241008A** Analysis Date: **10/8/2024 5:05:29 PM** Prep Date: **10/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	0.00192	0.0000800	0.00200	0	95.8	35	145	0.387	30	N
Hexachlorophene	0.00191	0.00500	0.00200	0	95.6	35	145	4.45	30	N

Sample ID: **MB-117491** Batch ID: **117491** TestNo: **E632** Units: **mg/L**
SampType: **MBLK** Run ID: **LCMS2_241008A** Analysis Date: **10/9/2024 11:55:37 AM** Prep Date: **10/8/2024**

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

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_241007B

The QC data in batch 117446 applies to the following samples: 2410029-01D

Sample ID: **LCS-117446** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS10_241007B** Analysis Date: **10/7/2024 7:55:00 PM** Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.000349	0.0000200	0.000400	0	87.2	0.1	135			
4,4´-DDE	0.000326	0.0000200	0.000400	0	81.6	19	120			
4,4´-DDT	0.000283	0.0000200	0.000400	0	70.8	0.1	171			
Aldrin	0.000284	0.0000100	0.000400	0	70.9	7	152			
alpha-BHC (Hexachlorocyclohexane)	0.000302	0.0000200	0.000400	0	75.5	42	108			
beta-BHC (Hexachlorocyclohexane)	0.000323	0.0000200	0.000400	0	80.7	42	131			
Carbaryl	0.000306	0.0000300	0.000400	0	76.5	38	168			N
Chlorpyrifos	0.000410	0.0000300	0.000400	0	103	42	131			N
delta-BHC (Hexachlorocyclohexane)	0.000319	0.0000200	0.000400	0	79.6	0.1	120			
Diazinon	0.000369	0.0000300	0.000400	0	92.3	52	120			N
Dieldrin	0.000313	0.0000200	0.000400	0	78.3	44	119			
Endosulfan I	0.000332	0.0000100	0.000400	0	82.9	47	128			
Endosulfan II	0.000330	0.0000200	0.000400	0	82.5	52	125			
Endosulfan sulfate	0.000339	0.0000200	0.000400	0	84.7	0.1	120			
Endrin	0.000356	0.0000200	0.000400	0	88.9	50	151			
Endrin aldehyde	0.0000389	0.0000200	0.000400	0	9.73	0.1	189			
gamma-BHC (Lindane)	0.000292	0.0000200	0.000400	0	73.1	41	111			
Guthion (Azinphosmethyl)	0.000448	0.0000300	0.000400	0	112	44	193			N
Heptachlor	0.000296	0.0000100	0.000400	0	74.1	0.1	172			
Heptachlor epoxide	0.000328	0.0000100	0.000400	0	82.1	71	120			
Malathion	0.000452	0.0000300	0.000400	0	113	56	161			N
Methoxychlor	0.000295	0.0000200	0.000400	0	73.7	38	156			N
Mirex	0.000260	0.0000200	0.000400	0	65.0	27	131			N
Parathion, ethyl	0.000453	0.0000300	0.000400	0	113	13	184			N
Demeton (O & S)	0.000373	0.0000300	0.000400	0	93.3	28	154			N
Surr: 2-Fluorobiphenyl	2.85		4.000		71.3	43	116			
Surr: 4-Terphenyl-d14	3.24		4.000		81.0	33	141			

Sample ID: **MB-117446** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS10_241007B** Analysis Date: **10/7/2024 10:25:00 PM** Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	<0.0000100	0.0000200								
4,4´-DDE	<0.0000100	0.0000200								
4,4´-DDT	<0.0000100	0.0000200								
Aldrin	<0.0000100	0.0000100								
alpha-BHC (Hexachlorocyclohexane)	<0.0000100	0.0000200								
beta-BHC (Hexachlorocyclohexane)	<0.0000100	0.0000200								
Carbaryl	<0.0000100	0.0000300								N
Chlordane	<0.0000600	0.000200								N

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_241007B

Sample ID: **MB-117446** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS10_241007B** Analysis Date: **10/7/2024 10:25:00 PM** Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Guthion (Azinphosmethyl)	<0.0000100	0.0000300								N
Heptachlor	<0.0000100	0.0000100								
Heptachlor epoxide	<0.0000100	0.0000100								
Malathion	<0.0000100	0.0000300								N
Methoxychlor	<0.0000200	0.0000200								N
Mirex	<0.0000100	0.0000200								N
Parathion, ethyl	<0.0000100	0.0000300								N
Toxaphene	<0.000300	0.000300								
Demeton (O & S)	<0.0000100	0.0000300								N
Surr: 2-Fluorobiphenyl	3.02		4.000		75.4	43	116			
Surr: 4-Terphenyl-d14	3.24		4.000		81.1	33	141			

Sample ID: **2409209-01AMS** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **MS** Run ID: **GCMS10_241007B** Analysis Date: **10/7/2024 11:26:00 PM** Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.00339	0.000192	0.00385	0	88.1	0.1	145			
4,4´-DDE	0.00314	0.000192	0.00385	0	81.6	4	136			
4,4´-DDT	0.00298	0.000192	0.00385	0	77.4	0.1	203			
Aldrin	0.00277	0.0000962	0.00385	0	72.0	0.1	166			
alpha-BHC (Hexachlorocyclohexane)	0.00282	0.000192	0.00385	0	73.2	31	121			
beta-BHC (Hexachlorocyclohexane)	0.00346	0.000192	0.00385	0	90.0	24	149			
Carbaryl	0.00360	0.000288	0.00385	0	93.6	41	195			N
Chlorpyrifos	0.00383	0.000288	0.00385	0	99.5	32	149			N
delta-BHC (Hexachlorocyclohexane)	0.00347	0.000192	0.00385	0	90.2	0.1	120			
Diazinon	0.00380	0.000288	0.00385	0	98.7	40	141			N
Dieldrin	0.00301	0.000192	0.00385	0	78.3	29	136			
Endosulfan I	0.00317	0.0000962	0.00385	0	82.5	24	159			
Endosulfan II	0.00331	0.000192	0.00385	0	86.0	30	163			
Endosulfan sulfate	0.00315	0.000192	0.00385	0	81.8	0.1	120			
Endrin	0.00346	0.000192	0.00385	0	90.0	23	187			

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_241007B

Sample ID: **2409209-01AMS**	Batch ID: **117446**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS10_241007B**	Analysis Date: **10/7/2024 11:26:00 PM**	Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin aldehyde	0.0000615	0.000192	0.00385	0	1.60	0.1	209			
gamma-BHC (Lindane)	0.00262	0.000192	0.00385	0	68.2	16	128			
Guthion (Azinphosmethyl)	0.00451	0.000288	0.00385	0	117	4	226			N
Heptachlor	0.00287	0.0000962	0.00385	0	74.7	0.1	192			
Heptachlor epoxide	0.00317	0.0000962	0.00385	0	82.5	26	155			
Malathion	0.00502	0.000288	0.00385	0	131	47	190			N
Methoxychlor	0.00299	0.000192	0.00385	0	77.8	14	174			N
Mirex	0.00245	0.000192	0.00385	0	63.8	6	154			N
Parathion, ethyl	0.00469	0.000288	0.00385	0	122	24	192			N
Demeton (O & S)	0.00436	0.000288	0.00385	0	113	27	189			N
Surr: 2-Fluorobiphenyl	25.5		38.46		66.2	43	116			
Surr: 4-Terphenyl-d14	31.3		38.46		81.5	33	141			

Sample ID: **2409209-01AMSD**	Batch ID: **117446**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS10_241007B**	Analysis Date: **10/8/2024 12:07:00 AM**	Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.00293	0.000174	0.00347	0	84.3	0.1	145	14.6	50	
4,4´-DDE	0.00292	0.000174	0.00347	0	84.0	4	136	7.30	50	
4,4´-DDT	0.00284	0.000174	0.00347	0	81.9	0.1	203	4.50	50	
Aldrin	0.00267	0.0000868	0.00347	0	76.8	0.1	166	3.74	50	
alpha-BHC (Hexachlorocyclohexane)	0.00289	0.000174	0.00347	0	83.2	31	121	2.57	50	
beta-BHC (Hexachlorocyclohexane)	0.00333	0.000174	0.00347	0	95.8	24	149	3.98	50	
Carbaryl	0.00342	0.000260	0.00347	0	98.4	41	195	5.14	50	N
Chlorpyrifos	0.00376	0.000260	0.00347	0	108	32	149	1.81	50	N
delta-BHC (Hexachlorocyclohexane)	0.00346	0.000174	0.00347	0	99.6	0.1	120	0.349	50	
Diazinon	0.00380	0.000260	0.00347	0	110	40	141	0.145	50	N
Dieldrin	0.00279	0.000174	0.00347	0	80.4	29	136	7.69	50	
Endosulfan I	0.00297	0.0000868	0.00347	0	85.5	24	159	6.68	50	
Endosulfan II	0.00332	0.000174	0.00347	0	95.6	30	163	0.348	50	
Endosulfan sulfate	0.00284	0.000174	0.00347	0	81.9	0.1	120	10.1	50	
Endrin	0.00330	0.000174	0.00347	0	95.0	23	187	4.82	50	
Endrin aldehyde	0.000287	0.000174	0.00347	0	8.27	0.1	209	129	50	R
gamma-BHC (Lindane)	0.00273	0.000174	0.00347	0	78.7	16	128	4.05	50	
Guthion (Azinphosmethyl)	0.00401	0.000260	0.00347	0	115	4	226	11.9	50	N
Heptachlor	0.00268	0.0000868	0.00347	0	77.3	0.1	192	6.72	50	
Heptachlor epoxide	0.00305	0.0000868	0.00347	0	87.8	26	155	4.02	50	
Malathion	0.00474	0.000260	0.00347	0	137	47	190	5.79	50	N
Methoxychlor	0.00280	0.000174	0.00347	0	80.5	14	174	6.74	50	N
Mirex	0.00234	0.000174	0.00347	0	67.4	6	154	4.69	50	N
Parathion, ethyl	0.00452	0.000260	0.00347	0	130	24	192	3.72	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_241007B

Sample ID: **2409209-01AMSD**	Batch ID: **117446**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS10_241007B**	Analysis Date: **10/8/2024 12:07:00 AM**	Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Demeton (O & S)	0.00428	0.000260	0.00347	0	123	27	189	1.76	50	N
Surr: 2-Fluorobiphenyl	23.9		34.72		68.8	43	116	0	0	
Surr: 4-Terphenyl-d14	29.7		34.72		85.6	33	141	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_241007C

The QC data in batch 117446 applies to the following samples: 2410029-01D

Sample ID: **LCS-117446-DI**	Batch ID: **117446**	TestNo: **D5812-96mod**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS10_241007C**	Analysis Date: **10/7/2024 8:57:00 PM**	Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	0.000603	0.000400	0.00100	0	60.3	22	180			N

Sample ID: **MB-117446**	Batch ID: **117446**	TestNo: **D5812-96mod**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS10_241007C**	Analysis Date: **10/7/2024 10:25:00 PM**	Prep Date: **10/3/2024**

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_241007A

The QC data in batch 117446 applies to the following samples: 2410029-01D

Sample ID: **LCS-117446-PCB** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS8_241007A** Analysis Date: **10/7/2024 11:19:00 AM** Prep Date: **10/3/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00361	0.000200	0.00400	0	90.3	37	130			
Aroclor 1260	0.00450	0.000200	0.00400	0	113	19	130			
Total PCBs	0.00811	0.000200	0.00800	0	101	19	130			
Surr: 2-Fluorobiphenyl	3.72		4.000		93.1	43	116			
Surr: 4-Terphenyl-d14	4.22		4.000		106	33	141			

Sample ID: **MB-117446** Batch ID: **117446** TestNo: **E625.1** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS8_241007A** Analysis Date: **10/7/2024 11:49:00 AM** Prep Date: **10/3/2024**

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	3.91		4.000		97.8	43	116			
Surr: 4-Terphenyl-d14	4.33		4.000		108	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

The QC data in batch 117416 applies to the following samples: 2410029-01C

Sample ID: **LCS-117416** Batch ID: **117416** TestNo: **E625.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_241003B** Analysis Date: **10/3/2024 9:45:00 AM** Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0344	0.00400	0.0400	0	86.1	5	125			
Benzo[a]anthracene	0.0417	0.00200	0.0400	0	104	33	143			
Benzo[a]pyrene	0.0455	0.00200	0.0400	0	114	17	163			
Chrysene	0.0410	0.00200	0.0400	0	103	17	168			
2,4-Dimethylphenol	0.0357	0.00200	0.0400	0	89.2	32	120			
4,6-Dinitro-o-cresol	0.0449	0.00400	0.0400	0	112	10	181			
m,p-Cresols	0.0275	0.00400	0.0400	0	68.6	10	125			
o-Cresol	0.0292	0.00400	0.0400	0	73.0	25	125			
p-Chloro-m-Cresol	0.0394	0.00400	0.0400	0	98.5	22	147			
Hexachlorobenzene	0.0380	0.00200	0.0400	0	95.1	10	152			
Hexachlorobutadiene	0.0342	0.00200	0.0400	0	85.4	24	120			
Hexachloroethane	0.0352	0.00200	0.0400	0	88.0	40	120			
Nitrobenzene	0.0393	0.00200	0.0400	0	98.3	35	180			
N-Nitrosodiethylamine	0.0350	0.00400	0.0400	0	87.6	20	125			
N-Nitrosodi-n-butylamine	0.0411	0.00400	0.0400	0	103	20	125			
Pentachlorobenzene	0.0338	0.00200	0.0400	0	84.4	40	140			
Pentachlorophenol	0.0370	0.00200	0.0400	0	92.6	14	176			
Phenanthrene	0.0378	0.00200	0.0400	0	94.4	54	120			
Pyridine	0.0197	0.00200	0.0400	0	49.2	10	75			
1,2,4,5-Tetrachlorobenzene	0.0343	0.00200	0.0400	0	85.7	30	140			
2,4,5-Trichlorophenol	0.0434	0.00200	0.0400	0	108	25	125			
2-Chlorophenol	0.0313	0.00200	0.0400	0	78.2	23	134			
2,4-Dichlorophenol	0.0375	0.00200	0.0400	0	93.6	39	135			
2,4-Dinitrophenol	0.0431	0.00400	0.0400	0	108	10	191			
2-Nitrophenol	0.0393	0.00200	0.0400	0	98.3	29	182			
4-Nitrophenol	0.0316	0.00400	0.0400	0	79.0	10	132			
Phenol	0.0171	0.00200	0.0400	0	42.7	5	120			
2,4,6-Trichlorophenol	0.0414	0.00200	0.0400	0	104	37	144			
Acenaphthene	0.0381	0.00200	0.0400	0	95.2	47	145			
Acenaphthylene	0.0368	0.00200	0.0400	0	91.9	33	145			
Anthracene	0.0393	0.00200	0.0400	0	98.2	27	133			
Benzo[b]fluoranthene	0.0437	0.00200	0.0400	0	109	24	159			
Benzo[g,h,i]perylene	0.0468	0.00200	0.0400	0	117	10	219			
Benzo[k]fluoranthene	0.0418	0.00200	0.0400	0	105	11	162			
Bis(2-chloroethoxy)methane	0.0369	0.00200	0.0400	0	92.4	33	184			
Bis(2-chloroethyl)ether	0.0386	0.00200	0.0400	0	96.6	12	158			
Bis(2-chloroisopropyl)ether	0.0332	0.00200	0.0400	0	82.9	36	166			
Bis(2-ethylhexyl)phthalate	0.0521	0.00600	0.0400	0	130	10	158			
4-Bromophenyl phenyl ether	0.0390	0.00200	0.0400	0	97.6	53	127			
Butyl benzyl phthalate	0.0475	0.00600	0.0400	0	119	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **LCS-117416**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 9:45:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chloronaphthalene	0.0372	0.00200	0.0400	0	93.0	60	120			
4-Chlorophenyl phenyl ether	0.0405	0.00200	0.0400	0	101	25	158			
Dibenz[a,h]anthracene	0.0458	0.00200	0.0400	0	115	10	125			
3,3'-Dichlorobenzidine	0.0393	0.00500	0.0400	0	98.2	10	262			
Diethyl phthalate	0.0427	0.00600	0.0400	0	107	10	120			
Dimethyl phthalate	0.0404	0.00600	0.0400	0	101	10	120			
Di-n-butyl phthalate	0.0459	0.00600	0.0400	0	115	10	120			
2,4-Dinitrotoluene	0.0433	0.00200	0.0400	0	108	39	139			
2,6-Dinitrotoluene	0.0414	0.00200	0.0400	0	104	50	158			
Di-n-octyl phthalate	0.0466	0.00600	0.0400	0	117	10	146			
1,2-Diphenylhydrazine	0.0367	0.00200	0.0400	0	91.9	40	140			
Fluoranthene	0.0439	0.00200	0.0400	0	110	26	137			
Fluorene	0.0423	0.00200	0.0400	0	106	59	121			
Hexachlorocyclopentadiene	0.0308	0.00200	0.0400	0	76.9	8	130			
Indeno[1,2,3-cd]pyrene	0.0455	0.00200	0.0400	0	114	10	171			
Isophorone	0.0373	0.00200	0.0400	0	93.4	21	196			
Naphthalene	0.0353	0.00200	0.0400	0	88.2	21	133			
N-Nitrosodimethylamine	0.0190	0.00200	0.0400	0	47.6	10	125			
N-Nitrosodi-n-propylamine	0.0372	0.00200	0.0400	0	92.9	10	230			
N-Nitrosodiphenylamine	0.0402	0.00200	0.0400	0	101	20	125			
Pyrene	0.0428	0.00200	0.0400	0	107	52	120			
1,2,4-Trichlorobenzene	0.0362	0.00200	0.0400	0	90.5	44	142			
Surr: 2,4,6-Tribromophenol	81.2		80.00		102	10	123			
Surr: 2-Fluorobiphenyl	68.2		80.00		85.3	43	116			
Surr: 2-Fluorophenol	62.2		80.00		77.8	21	100			
Surr: 4-Terphenyl-d14	87.2		80.00		109	33	141			
Surr: Nitrobenzene-d5	78.6		80.00		98.3	35	115			
Surr: Phenol-d5	37.8		80.00		47.2	10	94			

Sample ID: **2410016-06EMS**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 10:07:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0310	0.00403	0.0403	0	77.0	5	125			
Benzo[a]anthracene	0.0391	0.00202	0.0403	0	97.0	33	143			
Benzo[a]pyrene	0.0450	0.00202	0.0403	0	112	17	163			
Chrysene	0.0415	0.00202	0.0403	0	103	17	168			
2,4-Dimethylphenol	0.0379	0.00202	0.0403	0	94.0	32	120			
4,6-Dinitro-o-cresol	0.0475	0.00403	0.0403	0	118	10	181			
p-Chloro-m-Cresol	0.0409	0.00403	0.0403	0	101	22	147			
Hexachlorobenzene	0.0370	0.00202	0.0403	0	91.7	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **2410016-06EMS**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 10:07:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	0.0365	0.00202	0.0403	0	90.4	24	120			
Hexachloroethane	0.0378	0.00202	0.0403	0	93.8	40	120			
Nitrobenzene	0.0406	0.00202	0.0403	0	101	35	180			
Pentachlorophenol	0.0395	0.00202	0.0403	0	98.1	14	176			
Phenanthrene	0.0374	0.00202	0.0403	0	92.8	54	120			
2-Chlorophenol	0.0340	0.00202	0.0403	0	84.3	23	134			
2,4-Dichlorophenol	0.0393	0.00202	0.0403	0	97.5	39	135			
2,4-Dinitrophenol	0.0481	0.00403	0.0403	0	119	10	191			
2-Nitrophenol	0.0420	0.00202	0.0403	0	104	29	182			
4-Nitrophenol	0.0350	0.00403	0.0403	0	86.8	10	132			
Phenol	0.0190	0.00202	0.0403	0	47.2	5	120			
2,4,6-Trichlorophenol	0.0436	0.00202	0.0403	0	108	37	144			
Acenaphthene	0.0391	0.00202	0.0403	0	97.0	47	145			
Acenaphthylene	0.0377	0.00202	0.0403	0	93.6	33	145			
Anthracene	0.0392	0.00202	0.0403	0	97.2	27	133			
Benzo[b]fluoranthene	0.0433	0.00202	0.0403	0	107	24	159			
Benzo[g,h,i]perylene	0.0454	0.00202	0.0403	0	113	10	219			
Benzo[k]fluoranthene	0.0406	0.00202	0.0403	0	101	11	162			
Bis(2-chloroethoxy)methane	0.0383	0.00202	0.0403	0	95.1	33	184			
Bis(2-chloroethyl)ether	0.0416	0.00202	0.0403	0	103	12	158			
Bis(2-chloroisopropyl)ether	0.0345	0.00202	0.0403	0	85.4	36	166			
Bis(2-ethylhexyl)phthalate	0.0483	0.00605	0.0403	0	120	10	158			
4-Bromophenyl phenyl ether	0.0384	0.00202	0.0403	0	95.3	53	127			
Butyl benzyl phthalate	0.0467	0.00605	0.0403	0	116	10	152			
2-Chloronaphthalene	0.0385	0.00202	0.0403	0	95.5	60	120			
4-Chlorophenyl phenyl ether	0.0403	0.00202	0.0403	0	99.8	25	158			
Dibenz[a,h]anthracene	0.0449	0.00202	0.0403	0	111	10	125			
3,3´-Dichlorobenzidine	0.0400	0.00504	0.0403	0	99.1	10	262			
Diethyl phthalate	0.0440	0.00605	0.0403	0	109	10	120			
Dimethyl phthalate	0.0415	0.00605	0.0403	0	103	10	120			
Di-n-butyl phthalate	0.0460	0.00605	0.0403	0	114	10	120			
2,4-Dinitrotoluene	0.0439	0.00202	0.0403	0	109	39	139			
2,6-Dinitrotoluene	0.0428	0.00202	0.0403	0	106	50	158			
Di-n-octyl phthalate	0.0442	0.00605	0.0403	0	110	10	146			
1,2-Diphenylhydrazine	0.0369	0.00202	0.0403	0	91.5	40	140			
Fluoranthene	0.0438	0.00202	0.0403	0	108	26	137			
Fluorene	0.0421	0.00202	0.0403	0	104	59	121			
Hexachlorocyclopentadiene	0.0344	0.00202	0.0403	0	85.2	8	130			
Indeno[1,2,3-cd]pyrene	0.0442	0.00202	0.0403	0	110	10	171			
Isophorone	0.0385	0.00202	0.0403	0	95.6	21	196			
Naphthalene	0.0364	0.00202	0.0403	0	90.4	21	133			

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **2410016-06EMS**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 10:07:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	0.0201	0.00202	0.0403	0	49.9	10	125			
N-Nitrosodi-n-propylamine	0.0394	0.00202	0.0403	0	97.6	10	230			
N-Nitrosodiphenylamine	0.0406	0.00202	0.0403	0	101	20	125			
Pyrene	0.0417	0.00202	0.0403	0	103	52	120			
1,2,4-Trichlorobenzene	0.0375	0.00202	0.0403	0	92.9	44	142			
Surr: 2,4,6-Tribromophenol	84.3		80.65		104	10	123			
Surr: 2-Fluorobiphenyl	72.0		80.65		89.2	43	116			
Surr: 2-Fluorophenol	57.3		80.65		71.0	21	100			
Surr: 4-Terphenyl-d14	74.0		80.65		91.8	33	141			
Surr: Nitrobenzene-d5	81.2		80.65		101	35	115			
Surr: Phenol-d5	34.7		80.65		43.0	10	94			

Sample ID: **2410016-06EMSD**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 10:29:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	0.0388	0.00404	0.0404	0	95.9	5	125	22.1	50	
Benzo[a]anthracene	0.0392	0.00202	0.0404	0	97.1	33	143	0.325	50	
Benzo[a]pyrene	0.0453	0.00202	0.0404	0	112	17	163	0.624	50	
Chrysene	0.0412	0.00202	0.0404	0	102	17	168	0.803	50	
2,4-Dimethylphenol	0.0381	0.00202	0.0404	0	94.2	32	120	0.435	50	
4,6-Dinitro-o-cresol	0.0450	0.00404	0.0404	0	111	10	181	5.32	50	
p-Chloro-m-Cresol	0.0424	0.00404	0.0404	0	105	22	147	3.66	50	
Hexachlorobenzene	0.0374	0.00202	0.0404	0	92.6	10	152	1.20	50	
Hexachlorobutadiene	0.0361	0.00202	0.0404	0	89.4	24	120	0.890	50	
Hexachloroethane	0.0381	0.00202	0.0404	0	94.3	40	120	0.754	50	
Nitrobenzene	0.0406	0.00202	0.0404	0	101	35	180	0.073	50	
Pentachlorophenol	0.0378	0.00202	0.0404	0	93.4	14	176	4.58	50	
Phenanthrene	0.0371	0.00202	0.0404	0	91.8	54	120	0.862	39	
2-Chlorophenol	0.0337	0.00202	0.0404	0	83.4	23	134	0.911	50	
2,4-Dichlorophenol	0.0396	0.00202	0.0404	0	98.1	39	135	0.887	50	
2,4-Dinitrophenol	0.0445	0.00404	0.0404	0	110	10	191	7.84	50	
2-Nitrophenol	0.0412	0.00202	0.0404	0	102	29	182	1.87	50	
4-Nitrophenol	0.0323	0.00404	0.0404	0	80.0	10	132	7.99	50	
Phenol	0.0184	0.00202	0.0404	0	45.6	5	120	3.34	50	
2,4,6-Trichlorophenol	0.0438	0.00202	0.0404	0	108	37	144	0.638	50	
Acenaphthene	0.0392	0.00202	0.0404	0	97.0	47	145	0.119	48	
Acenaphthylene	0.0380	0.00202	0.0404	0	94.0	33	145	0.648	50	
Anthracene	0.0390	0.00202	0.0404	0	96.5	27	133	0.449	50	
Benzo[b]fluoranthene	0.0438	0.00202	0.0404	0	108	24	159	1.01	50	
Benzo[g,h,i]perylene	0.0453	0.00202	0.0404	0	112	10	219	0.134	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **2410016-06EMSD**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 10:29:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[k]fluoranthene	0.0404	0.00202	0.0404	0	100	11	162	0.526	50	
Bis(2-chloroethoxy)methane	0.0384	0.00202	0.0404	0	95.1	33	184	0.275	50	
Bis(2-chloroethyl)ether	0.0402	0.00202	0.0404	0	99.5	12	158	3.28	50	
Bis(2-chloroisopropyl)ether	0.0347	0.00202	0.0404	0	85.9	36	166	0.689	50	
Bis(2-ethylhexyl)phthalate	0.0488	0.00606	0.0404	0	121	10	158	0.887	50	
4-Bromophenyl phenyl ether	0.0386	0.00202	0.0404	0	95.6	53	127	0.484	43	
Butyl benzyl phthalate	0.0465	0.00606	0.0404	0	115	10	152	0.341	50	
2-Chloronaphthalene	0.0385	0.00202	0.0404	0	95.2	60	120	0.145	24	
4-Chlorophenyl phenyl ether	0.0405	0.00202	0.0404	0	100	25	158	0.472	50	
Dibenz[a,h]anthracene	0.0449	0.00202	0.0404	0	111	10	125	0.002	50	
3,3'-Dichlorobenzidine	0.0415	0.00505	0.0404	0	103	10	262	3.69	50	
Diethyl phthalate	0.0446	0.00606	0.0404	0	110	10	120	1.45	50	
Dimethyl phthalate	0.0424	0.00606	0.0404	0	105	10	120	2.24	50	
Di-n-butyl phthalate	0.0457	0.00606	0.0404	0	113	10	120	0.659	47	
2,4-Dinitrotoluene	0.0447	0.00202	0.0404	0	111	39	139	1.73	42	
2,6-Dinitrotoluene	0.0434	0.00202	0.0404	0	107	50	158	1.39	48	
Di-n-octyl phthalate	0.0438	0.00606	0.0404	0	108	10	146	0.832	50	
1,2-Diphenylhydrazine	0.0377	0.00202	0.0404	0	93.2	40	140	2.06	50	
Fluoranthene	0.0431	0.00202	0.0404	0	107	26	137	1.45	50	
Fluorene	0.0425	0.00202	0.0404	0	105	59	121	0.985	38	
Hexachlorocyclopentadiene	0.0338	0.00202	0.0404	0	83.6	8	130	1.79	50	
Indeno[1,2,3-cd]pyrene	0.0441	0.00202	0.0404	0	109	10	171	0.098	50	
Isophorone	0.0387	0.00202	0.0404	0	95.8	21	196	0.483	50	
Naphthalene	0.0362	0.00202	0.0404	0	89.5	21	133	0.723	50	
N-Nitrosodimethylamine	0.0200	0.00202	0.0404	0	49.5	10	125	0.483	50	
N-Nitrosodi-n-propylamine	0.0395	0.00202	0.0404	0	97.9	10	230	0.478	50	
N-Nitrosodiphenylamine	0.0416	0.00202	0.0404	0	103	20	125	2.33	50	
Pyrene	0.0418	0.00202	0.0404	0	103	52	120	0.174	49	
1,2,4-Trichlorobenzene	0.0373	0.00202	0.0404	0	92.3	44	142	0.426	50	
Surr: 2,4,6-Tribromophenol	84.1		80.82		104	10	123	0	0	
Surr: 2-Fluorobiphenyl	70.7		80.82		87.5	43	116	0	0	
Surr: 2-Fluorophenol	55.8		80.82		69.0	21	100	0	0	
Surr: 4-Terphenyl-d14	73.6		80.82		91.0	33	141	0	0	
Surr: Nitrobenzene-d5	80.0		80.82		99.0	35	115	0	0	
Surr: Phenol-d5	33.3		80.82		41.2	10	94	0	0	

Sample ID: **MB-117416**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 11:58:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	<0.00100	0.00400								

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **MB-117416**	Batch ID: **117416**	TestNo: **E625.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS9_241003B**	Analysis Date: **10/3/2024 11:58:00 AM**	Prep Date: **10/2/2024**

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

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003B

Sample ID: **MB-117416** Batch ID: **117416** TestNo: **E625.1** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS9_241003B** Analysis Date: **10/3/2024 11:58:00 AM** Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
N-Nitrosodi-n-propylamine	<0.00100	0.00200								
N-Nitrosodiphenylamine	<0.00100	0.00200								
Pyrene	<0.00100	0.00200								
1,2,4-Trichlorobenzene	<0.00100	0.00200								
Surr: 2,4,6-Tribromophenol	82.6		80.00		103	10	123			
Surr: 2-Fluorobiphenyl	70.6		80.00		88.2	43	116			
Surr: 2-Fluorophenol	50.6		80.00		63.3	21	100			
Surr: 4-Terphenyl-d14	71.0		80.00		88.8	33	141			
Surr: Nitrobenzene-d5	78.4		80.00		98.0	35	115			
Surr: Phenol-d5	28.8		80.00		36.0	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_241003D

The QC data in batch 117416 applies to the following samples: 2410029-01C

Sample ID: **LCS-117416-NP**	Batch ID: **117416**			TestNo: **D7065-17**				Units: **mg/L**			
SampType: **LCS**	Run ID: **GCMS9_241003D**			Analysis Date: **10/3/2024 11:14:00 AM**				Prep Date: **10/2/2024**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nonylphenol	0.826	0.100	1.00	0	82.6	40	140			N	

Sample ID: **MB-117416**	Batch ID: **117416**			TestNo: **D7065-17**				Units: **mg/L**			
SampType: **MBLK**	Run ID: **GCMS9_241003D**			Analysis Date: **10/3/2024 11:58:00 AM**				Prep Date: **10/2/2024**			
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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241002B

The QC data in batch 117421 applies to the following samples: 2410029-02A

Sample ID: **LCS-117421** Batch ID: **117421** TestNo: **E624.1** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_241002B** Analysis Date: **10/2/2024 11:23:00 AM** Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0267	0.00100	0.0232	0	115	65	135			
Carbon tetrachloride	0.0241	0.00100	0.0232	0	104	70	130			
Chlorobenzene	0.0254	0.00100	0.0232	0	109	35	135			
Chloroform	0.0253	0.00100	0.0232	0	109	70	135			
Chlorodibromomethane	0.0259	0.00100	0.0232	0	111	70	135			
1,2-Dibromoethane	0.0261	0.00100	0.0232	0	113	60	140			
1,2-Dichloroethane	0.0249	0.00100	0.0232	0	107	70	130			
1,1-Dichloroethene	0.0249	0.00100	0.0232	0	107	50	150			
Tetrachloroethene	0.0262	0.00200	0.0232	0	113	70	130			
Trichloroethene	0.0254	0.00100	0.0232	0	110	65	135			
1,1,1-Trichloroethane	0.0239	0.00100	0.0232	0	103	70	130			
TTHM (Total Trihalomethanes)	0.102	0.00100	0.0928	0	110	60	140			
Vinyl chloride	0.0262	0.00100	0.0232	0	113	5	195			
Acrolein	0.0580	0.0150	0.0580	0	100	60	140			
Acrylonitrile	0.0573	0.00300	0.0464	0	124	60	140			
1,1,2,2-Tetrachloroethane	0.0273	0.00100	0.0232	0	118	60	140			
Bromoform	0.0260	0.00100	0.0232	0	112	65	135			
Chloroethane	0.0239	0.00500	0.0232	0	103	40	160			
2-Chloroethylvinylether	0.0266	0.0100	0.0232	0	115	5	225			
Bromodichloromethane	0.0252	0.00100	0.0232	0	108	65	135			
1,1-Dichloroethane	0.0277	0.00100	0.0232	0	119	70	130			
1,2-Dichloropropane	0.0285	0.00100	0.0232	0	123	35	165			
1,3-Dichloropropene (cis)	0.0261	0.00100	0.0232	0	113	25	175			
1,3-Dichloropropene (trans)	0.0254	0.00100	0.0232	0	109	50	150			
Ethylbenzene	0.0250	0.00100	0.0232	0	108	60	140			
Methyl bromide	0.0150	0.00500	0.0232	0	64.5	15	185			
Methyl chloride	0.0311	0.00500	0.0232	0	134	5	205			
Methylene chloride (DCM)	0.0259	0.00500	0.0232	0	112	60	140			
Toluene	0.0254	0.00200	0.0232	0	109	70	130			
trans-1,2-Dichloroethylene	0.0254	0.00200	0.0232	0	109	70	130			
1,1,2-Trichloroethane	0.0259	0.00100	0.0232	0	112	70	130			
1,2-Dichlorobenzene	0.0265	0.00100	0.0232	0	114	65	135			
1,3-Dichlorobenzene	0.0258	0.00100	0.0232	0	111	70	130			
1,4-Dichlorobenzene	0.0257	0.00100	0.0232	0	111	65	135			
Surr: 1,2-Dichloroethane-d4	198		200.0		98.8	72	119			
Surr: 4-Bromofluorobenzene	196		200.0		98.0	76	119			
Surr: Dibromofluoromethane	195		200.0		97.4	85	115			
Surr: Toluene-d8	207		200.0		104	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241002B

Sample ID: **LCS-117421**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 11:57:00 AM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl ethyl ketone	0.131	0.0150	0.116	0	113	60	140			
Surr: 1,2-Dichloroethane-d4	194		200.0		96.8	72	119			
Surr: 4-Bromofluorobenzene	209		200.0		105	76	119			
Surr: Dibromofluoromethane	196		200.0		98.0	85	115			
Surr: Toluene-d8	213		200.0		107	81	120			

Sample ID: **MB-117421**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 12:23:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								
Carbon tetrachloride	<0.000300	0.00100								
Chlorobenzene	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chlorodibromomethane	<0.000300	0.00100								
1,2-Dibromoethane	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,1-Dichloroethene	<0.000300	0.00100								
Methyl ethyl ketone	<0.00500	0.0150								
Tetrachloroethene	<0.000600	0.00200								
Trichloroethene	<0.000600	0.00100								
1,1,1-Trichloroethane	<0.000300	0.00100								
TTHM (Total Trihalomethanes)	<0.000300	0.00100								
Vinyl chloride	<0.000300	0.00100								
Acrolein	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
1,1,2,2-Tetrachloroethane	<0.000300	0.00100								
Bromoform	<0.000300	0.00100								
Chloroethane	<0.00100	0.00500								
2-Chloroethylvinylether	<0.00600	0.0100								
Bromodichloromethane	<0.000300	0.00100								
1,1-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000300	0.00100								
1,3-Dichloropropene (cis)	<0.000300	0.00100								
1,3-Dichloropropene (trans)	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Methyl bromide	<0.00100	0.00500								
Methyl chloride	<0.00100	0.00500								
Methylene chloride (DCM)	<0.00250	0.00500								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethylene	<0.000300	0.00200								

Qualifiers:

B	Analyte detected in the associated Method Blank	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241002B

Sample ID: **MB-117421**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 12:23:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	<0.000300	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,4-Dichlorobenzene	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	198		200.0		98.8	72	119			
Surr: 4-Bromofluorobenzene	207		200.0		103	76	119			
Surr: Dibromofluoromethane	200		200.0		99.9	85	115			
Surr: Toluene-d8	216		200.0		108	81	120			

Sample ID: **2410028-01AMS**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 3:36:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.278	0.0100	0.232	0	120	37	151			
Carbon tetrachloride	0.261	0.0100	0.232	0	112	70	140			
Chlorobenzene	0.267	0.0100	0.232	0	115	37	160			
Chloroform	0.284	0.0100	0.232	0.0147	116	51	138			
Chlorodibromomethane	0.297	0.0100	0.232	0.0233	118	53	149			
1,2-Dibromoethane	0.273	0.0100	0.232	0	117	40	160			
1,2-Dichloroethane	0.272	0.0100	0.232	0	117	49	155			
1,1-Dichloroethene	0.257	0.0100	0.232	0	111	10	234			
Methyl ethyl ketone	1.81	0.150	1.16	0	156	40	160			
Tetrachloroethene	0.265	0.0200	0.232	0	114	64	148			
Trichloroethene	0.261	0.0100	0.232	0	113	70	157			
1,1,1-Trichloroethane	0.252	0.0100	0.232	0	109	52	162			
TTHM (Total Trihalomethanes)	1.15	0.0100	0.928	0.0659	117	40	160			
Vinyl chloride	0.281	0.0100	0.232	0	121	10	251			
Acrolein	0.677	0.150	0.580	0	117	40	160			
Acrylonitrile	0.594	0.0300	0.464	0	128	40	160			
1,1,2,2-Tetrachloroethane	0.289	0.0100	0.232	0	124	46	157			
Bromoform	0.272	0.0100	0.232	0.00372	116	45	169			
Chloroethane	0.257	0.0500	0.232	0	111	14	230			
2-Chloroethylvinylether	0.113	0.100	0.232	0	48.5	5	273			
Bromodichloromethane	0.298	0.0100	0.232	0.0242	118	35	155			
1,1-Dichloroethane	0.290	0.0100	0.232	0	125	59	155			
1,2-Dichloropropane	0.302	0.0100	0.232	0	130	10	210			
1,3-Dichloropropene (cis)	0.268	0.0100	0.232	0	116	10	227			
1,3-Dichloropropene (trans)	0.270	0.0100	0.232	0	116	17	183			
Ethylbenzene	0.258	0.0100	0.232	0	111	37	162			
Methyl bromide	0.145	0.0500	0.232	0	62.6	10	242			
Methyl chloride	0.343	0.0500	0.232	0	148	5	273			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241002B

Sample ID: **2410028-01AMS**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MS**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 3:36:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride (DCM)	0.279	0.0500	0.232	0	120	10	221			
Toluene	0.267	0.0200	0.232	0	115	47	150			
trans-1,2-Dichloroethylene	0.264	0.0200	0.232	0	114	54	156			
1,1,2-Trichloroethane	0.283	0.0100	0.232	0	122	52	150			
1,2-Dichlorobenzene	0.278	0.0100	0.232	0	120	18	190			
1,3-Dichlorobenzene	0.270	0.0100	0.232	0	116	59	156			
1,4-Dichlorobenzene	0.270	0.0100	0.232	0	116	18	190			
Surr: 1,2-Dichloroethane-d4	1930		2000		96.7	72	119			
Surr: 4-Bromofluorobenzene	1900		2000		95.1	76	119			
Surr: Dibromofluoromethane	1990		2000		99.5	85	115			
Surr: Toluene-d8	2020		2000		101	81	120			

Sample ID: **2410028-01AMSD**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 4:02:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.264	0.0100	0.232	0	114	37	151	5.15	40	
Carbon tetrachloride	0.239	0.0100	0.232	0	103	70	140	8.81	40	
Chlorobenzene	0.253	0.0100	0.232	0	109	37	160	5.40	40	
Chloroform	0.270	0.0100	0.232	0.0147	110	51	138	5.37	40	
Chlorodibromomethane	0.284	0.0100	0.232	0.0233	112	53	149	4.67	40	
1,2-Dibromoethane	0.260	0.0100	0.232	0	112	40	160	4.56	40	
1,2-Dichloroethane	0.252	0.0100	0.232	0	109	49	155	7.51	40	
1,1-Dichloroethene	0.245	0.0100	0.232	0	106	10	234	4.90	32	
Methyl ethyl ketone	1.57	0.150	1.16	0	135	40	160	14.2	40	
Tetrachloroethene	0.254	0.0200	0.232	0	110	64	148	4.24	39	
Trichloroethene	0.249	0.0100	0.232	0	107	70	157	4.97	40	
1,1,1-Trichloroethane	0.236	0.0100	0.232	0	102	52	162	6.30	36	
TTHM (Total Trihalomethanes)	1.10	0.0100	0.928	0.0659	111	40	160	4.82	40	
Vinyl chloride	0.260	0.0100	0.232	0	112	10	251	7.66	40	
Acrolein	0.669	0.150	0.580	0	115	40	160	1.11	40	
Acrylonitrile	0.580	0.0300	0.464	0	125	40	160	2.40	40	
1,1,2,2-Tetrachloroethane	0.273	0.0100	0.232	0	118	46	157	5.40	40	
Bromoform	0.265	0.0100	0.232	0.00372	112	45	169	2.67	40	
Chloroethane	0.233	0.0500	0.232	0	100	14	230	10.1	40	
2-Chloroethylvinylether	0.0806	0.100	0.232	0	34.7	5	273	33.2	40	
Bromodichloromethane	0.279	0.0100	0.232	0.0242	110	35	155	6.44	40	
1,1-Dichloroethane	0.275	0.0100	0.232	0	118	59	155	5.41	40	
1,2-Dichloropropane	0.289	0.0100	0.232	0	125	10	210	4.37	40	
1,3-Dichloropropene (cis)	0.255	0.0100	0.232	0	110	10	227	4.96	40	
1,3-Dichloropropene (trans)	0.255	0.0100	0.232	0	110	17	183	5.53	40	

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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241002B

Sample ID: **2410028-01AMSD**	Batch ID: **117421**	TestNo: **E624.1**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS5_241002B**	Analysis Date: **10/2/2024 4:02:00 PM**	Prep Date: **10/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	0.247	0.0100	0.232	0	107	37	162	4.28	40	
Methyl bromide	0.139	0.0500	0.232	0	59.9	10	242	4.38	40	
Methyl chloride	0.308	0.0500	0.232	0	133	5	273	10.7	40	
Methylene chloride (DCM)	0.259	0.0500	0.232	0	112	10	221	7.21	28	
Toluene	0.252	0.0200	0.232	0	108	47	150	5.96	40	
trans-1,2-Dichloroethylene	0.253	0.0200	0.232	0	109	54	156	4.16	40	
1,1,2-Trichloroethane	0.270	0.0100	0.232	0	116	52	150	4.60	40	
1,2-Dichlorobenzene	0.262	0.0100	0.232	0	113	18	190	5.83	40	
1,3-Dichlorobenzene	0.256	0.0100	0.232	0	110	59	156	5.22	40	
1,4-Dichlorobenzene	0.253	0.0100	0.232	0	109	18	190	6.25	40	
Surr: 1,2-Dichloroethane-d4	1930		2000		96.7	72	119	0	0	
Surr: 4-Bromofluorobenzene	1900		2000		94.9	76	119	0	0	
Surr: Dibromofluoromethane	1980		2000		99.2	85	115	0	0	
Surr: Toluene-d8	2010		2000		100	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: 2410029
Project: PCS 776797

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_241009B

The QC data in batch 117514 applies to the following samples: 2410029-01A

Sample ID: **MB-117514**	Batch ID: **117514**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MBLK**	Run ID: **UV/VIS_2_241009B**	Analysis Date: **10/9/2024 5:21:00 PM**	Prep Date: **10/9/2024**

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-117514**	Batch ID: **117514**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **LCS**	Run ID: **UV/VIS_2_241009B**	Analysis Date: **10/9/2024 5:22:00 PM**	Prep Date: **10/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.197	0.0200	0.2000	0	98.6	85	115			

Sample ID: **2410009-03BMS**	Batch ID: **117514**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MS**	Run ID: **UV/VIS_2_241009B**	Analysis Date: **10/9/2024 5:24:00 PM**	Prep Date: **10/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.186	0.0200	0.2000	0	92.8	79	114			

Sample ID: **2410009-03BMSD**	Batch ID: **117514**	TestNo: **M4500-CN E**	Units: **mg/L**
SampType: **MSD**	Run ID: **UV/VIS_2_241009B**	Analysis Date: **10/9/2024 5:25:00 PM**	Prep Date: **10/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.183	0.0200	0.2000	0	91.3	79	114	1.67	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

776797

Sample Log-In Checklist

776797

PCS Sample No(s) 776798 **COC No.** _____

Client/Company Name: SARA **Checklist Completed by:** JAA

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 6 / 3 °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: JAA Date 10-2-24 10-1-24 Time 1446
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: _____

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 8

Domestic Technical Report 5.0

And

Domestic Technical Report 6.0

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 8A

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: 19 (10 Ceriodaphnia dubia / 9 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		

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. WQ0010749-003 (EPA I.D. TX0024082)

Attachment 8B

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: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 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 3.0(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: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 9

Reference: Sewage Sludge Technical Report 1.0

Reference: Sewage Sludge Technical Report 2.0

Reference: Sewage Sludge Technical Report 3.0

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

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

SECTION 1. TREATMENT PROCESSING INFORMATION

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

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

Attachment Number: N/A

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

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

Click here to enter text.

SECTION 2. SOURCES OF SLUDGE

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

Facility Name	**Permit Number**	**Annual Quantity**
		See Attachment 9A

Facility Name	Permit Number	Annual Quantity

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

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

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

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

☐ Food crop harvesting restrictions

☐ Animal grazing restrictions N/A

☐ Public access restrictions

SECTION 4. WELL INFORMATION

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

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
N/A			

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

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

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

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☒ Technical Report 2.0, Sewage Sludge Composting

☒ Technical Report 3.0, Marketing and Distribution

☐ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0010749-004

Applicant: San Antonio River Authority

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

I certify, under penalty of law, that all information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of this permit.

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

Signatory Name: Leamon Anderson

Title: Deputy Director, Utilities Operations

Signature (use blue ink): _____ Date: 1-7-25

SUBSCRIBED AND SWORN to before me by the said Leamon M. Anderson on this 7th day of JANUARY, 20 25

My commission expires on the 21st day of JANUARY, 20 25

(Seal)

Notary Public

DIENNA DE VRIES
Notary ID #132881096
My Commission Expires
January 21, 2025

BEXAR

County, Texas

LANDOWNER SIGNATURE PAGE

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

Permit Number: N/A

Applicant: Click here to enter text.

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

Signatory Name: N/A

Title: Click here to enter text.

Signature (use blue ink): _____ Date: _____

SUBSCRIBED AND SWORN to before me by the said _____ on

this _____ day of _____, 20_____

My commission expires on the _____ day of _____, 20_____

_____

(Seal) Notary Public

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 2.0

SEWAGE SLUDGE COMPOSTING

SECTION 1. RENEWAL OF EXISTING AUTHORIZATION

Provide the following information if you are requesting continued authorization to compost sewage sludge. Complete this section only if composting is currently authorized in the existing permit.

Date operation commenced: April 2015

Location of operation: Martinez II WWTP, 1720 FM 1516 N. Converse TX/Bexar County

Type of bulking agent: Chipped yard trimmings/clean (untreated) dimensional lumber/ etc.

Approximate amount of sludge composted: 20,000 wet tons / year

Provide a brief discussion of the composting process and any significant changes since the permit was last issued.

On page 33 item 5 of the current permit, the statement "Storm water from the pad shall be routed through the headworks of the Wastewater Treatment Facility" is inaccurate. This statement was missed on the draft permit and on the final permit issued in 2020. The statement should be "Storm water from the pad shall be routed to a detention pond then used as irrigation, dust control, and other daily operations". The Compost Facility detention pond was designed to be maintained to provide sufficient storage to contain the entire runoff volumes from the 25-year, 24-hour event without discharge.

SECTION 2. NEW AUTHORIZATION TO COMPOST SEWAGE SLUDGE

A. Submit an ORIGINAL General Highway (County) Map. See instructions for information that must be displayed on the map.

Attachment Number: N/A

B. Has sewage sludge/septage previously been composted at this facility?

Yes ☐ No ☐

If Yes, provide a use history of the composting operations.

N/A

C. Provide a detailed description of the composting operation. The description must include the following information:

- Amount of sludge originating off-site to be composted;
- Total amount of sludge to be composted and total amount of feedstocks;
- Fecal coliform or Salmonella bacteria analysis (in MPN or CFU);
- Type, origin, and amount of bulking material to be used;
- Set back distances from facility boundaries for receiving, processing, or storing feedstocks or final product;
- Plan view of site;
- Type of composting proposed;
- Construction, maintenance, and operation to manage run-on and run-off during a 25-year, 24-hour rainfall event, including all calculations and sources used;
- Leachate collection system and leachate processing and disposal method;
- Construction, maintenance, and operations for groundwater protection;
- Design plan to line all surfaces used for delivery, mixing, composting, curing, screening, and storage to control seepage; and
- Design to minimize windblown material, odor, and vector control.

Attachment Number: N/A

D. Does the end product meet the requirements in 30 TAC 332.72(d)(2)(A)-(D)?

Yes ☐ No ☐

E. Submit a site operating plan which provides guidance from the design engineer to site management and operating personnel in sufficient detail to enable them to conduct day to day operations in a manner consistent with the engineer's design. The plan must include the following information:

- Process description (feedstock identification, tipping process, process, post-processing, product distribution, process diagram);
- Minimum number of personnel and their functions provided by the site operator;
- Minimum equipment;
- Security, site access control, traffic control, and safety;
- Control of the delivery material in designated areas;
- Screening for unprocessable, prohibited, and unauthorized material;
- Fire prevention and suppression plan;
- Control of windblown material;

- Equipment failures;
- Anticipated final grade of materials; and
- Description of handling and/or disposal of materials that doesn't meet 30 TAC Chapter 312.

Attachment Number: N/A

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 3.0

SEWAGE SLUDGE MARKETING AND DISTRIBUTION

A. What is the TCEQ Permit number for the Wastewater Treatment Plant that is generating the Class A or Class AB sewage sludge? WQ0010749-004

B. What is the name and location of the distribution storage center? Martinez II WWTP/Gardenville Composting Facility

C. Provide a description of the marketing and distribution plan.

The products resulting from the sludge composting process will be blended and sold in bags or bulk to the public for use as a soil amendment. The compost products will be available for sale on site and through Garden-Ville stores and other retail outlets.

D. Provide the following information for all entities receiving sludge directly from the permittee. If more than 2, submit an attachment which includes the follow information.

1. Contact Name: N/A

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

2. Contact Name: N/A

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

E. Provide a copy of the label or information sheet that is provided to each entity receiving the sewage sludge.

Attachment Number: 9B

F. Indicate by a checkmark that the sewage sludge meets the following:

☒ Metal concentrations in 30 TAC §312.43(b)(3)

☒ Vector attraction reduction requirements

☒ Class A, Class AB or Class B pathogen requirements

G. Indicate the type of recordkeeping: Paper and Electronic

PLEASE NOTE: If Class AB sewage sludge, attach a topographic map that shows the required buffer zones stated in 30 TAC §312.44.

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 9A

Source Material Information

Reference: Sewage Sludge Technical Report 1.0

Section 2 A

MARTINEZ II / GARDENVILLE COMPOST FACILITY (WQ0010749-004)

SOURCES OF SLUDGE

Salitrillo WWTP	WQ0010749-001	8,000 Wet Tons/Yea
Martinez II WWTP	WQ0010749-004	7,500 Wet Tons/Yea
Martinez IV WWTP	WQ0010749-007	1,200 Wet Tons/Yea
City of Somerset WWTP	WQ0011800-001	200 Wet Tons/Year
City of La Vernia WWTP	WQ0011258-001	100 Wet Tons/Year
City of Floresville WWTP	WQ0010488-001	1,200 Wet Tons/Yea
City of Halletsville WWTP	WQ0010013-001	30 Wet Tons/Year
Luling North WWTP	WQ0010582002	30 Wet Tons/Year
Luling South WWTP	WQ0010582001	30 Wet Tons/Year
4S Ranch WWTP	WQ0015095001	85 Wet Tons/Year
Park Village WWTP	WQ0014959001	30 Wet Tons/Year
Castletop Capital Hays ABC WWTP (Shadow Creek)	WQ0014431001	950 Wet Tons/Year
Singing Hills WWTP	WQ0015038001	500 Wet Tons/Year
Johnson Ranch WWTP	WQ0014975001	30 Wet Tons/Year
East Bastrop WWTP	WQ0011076001	30 Wet Tons/Year
West Bastrop WWTP	WQ0011076002	30 Wet Tons/Year

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ernest Munoz
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Generated 12/3/2024 2:32:00 PM Revision 1

JOB DESCRIPTION

Salitrillo WWTP

JOB NUMBER

860-87586-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/3/2024 2:32:00 PM
Revision 1

Authorized for release by
Lindy Maingot, Project Manager II
Lindy.Maingot@et.eurofinsus.com
(210)344-9751

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Definitions/Glossary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
860-87586-1

Revised Report
Each sample was put on a different report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/21/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.3°C and 2.5°C.

GC/MS VOA
Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202024 recovered above the upper control limit for 2-Butanone (23.3%) and Vinyl chloride (20.8%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202024/2).

Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202193 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202193/2).

Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-202193 recovered outside control limits for the following analytes: Carbon tetrachloride These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202148 recovered above the upper control limit for 2,4,6-Tribromophenol (Surr), 3 & 4 Methylphenol, 2-Methylphenol, 2,4-Dinitrotoluene, 1,4-Dichlorobenzene and Phenol-d5 (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202148/2).

Method 8270E_QQQ - TCLP: The surrogate recovery for the leachate blank associated with preparation batch 860-201494 and 860-202086 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-202088 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202604 recovered above the upper control limit for Pentachlorophenol and 2,4,6-Tribromophenol (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202604/2).

Method 8270E_QQQ - TCLP: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-202088 and analytical batch 860-202148 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Gardenville Composing Waste Facility (860-87586-4). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Martinez IV WWTP (860-87586-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E_QQQ - TCLP: The following sample was diluted due to the nature of the sample matrix: Martinez IV WWTP (860-87586-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: press cake. weighed to 5 grams

Saltillo WWTP (860-87586-1) and Martinez II WWTP (860-87586-2)

Method 8082A: sludge. weighed to 5 grams

Martinez IV WWTP (860-87586-3) and Gardenville Composing Waste Facility (860-87586-4)

Method 8082A: dark soil. weighed to 5 grams

Upper Martinez WWTP (860-87586-5)

Method 8082A: The following sample(s) required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: Lot#MKCS1129. Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B - TCLP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8321B_Herb - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Gardenville Composing Waste Facility (860-87586-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8321B_Herb - TCLP: The continuing calibration verification (CCV) associated with batch 860-201969 recovered above the upper control limit for 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 860-201969/9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - TCLP: The Leachate blank for preparation batch 860-201494 and 860-201752 and analytical batch 860-201945 contained Cadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Client Sample ID: Salitrillo WWTP — Lab Sample ID: 860-87586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorodane	0.000837	J	0.00100	0.000196	mg/L	1		8081B	TCLP
Heptachlor	0.0000529		0.0000501	0.0000175	mg/L	1		8081B	TCLP
Arsenic	0.0340	J	0.0500	0.0325	mg/L	1		6010D	TCLP
Barium	0.217		0.0500	0.00625	mg/L	1		6010D	TCLP
Nickel	0.0535		0.0500	0.00885	mg/L	1		6010D	TCLP
Zinc	0.486		0.150	0.0419	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: Salitrillo WWTP

Date Collected: 11/20/24 10:13
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-1
Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0369	U	0.0500	0.0369	mg/L			11/26/24 10:52	50
1,2-Dichloroethane	0.0186	U	0.0500	0.0186	mg/L			11/26/24 10:52	50
2-Butanone (MEK)	0.414	U	2.50	0.414	mg/L			11/26/24 10:52	50
Benzene	0.0230	U	0.0500	0.0230	mg/L			11/26/24 10:52	50
Carbon tetrachloride	0.0448	U	0.250	0.0448	mg/L			11/26/24 10:52	50
Chlorobenzene	0.0228	U	0.0500	0.0228	mg/L			11/26/24 10:52	50
Chloroform	0.0232	U	0.0500	0.0232	mg/L			11/26/24 10:52	50
Tetrachloroethylene	0.0328	U	0.0500	0.0328	mg/L			11/26/24 10:52	50
Trichloroethylene	0.0750	U	0.250	0.0750	mg/L			11/26/24 10:52	50
Vinyl chloride	0.0214	U	0.100	0.0214	mg/L			11/26/24 10:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*		*11/26/24 10:52*	*50*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*11/26/24 10:52*	*50*
Dibromofluoromethane (Surr)	*95*		*75 - 131*		*11/26/24 10:52*	*50*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 10:52*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.56	U	11.5	1.56	ug/L		11/26/24 05:47	11/28/24 14:07	20
2,4,5-Trichlorophenol	2.88	U	11.5	2.88	ug/L		11/26/24 05:47	11/28/24 14:07	20
2,4,6-Trichlorophenol	4.64	U	11.5	4.64	ug/L		11/26/24 05:47	11/28/24 14:07	20
2,4-Dinitrotoluene	4.11	U	11.5	4.11	ug/L		11/26/24 05:47	11/28/24 14:07	20
2-Methylphenol	2.10	U	11.5	2.10	ug/L		11/26/24 05:47	11/28/24 14:07	20
3 & 4 Methylphenol	2.79	U	11.5	2.79	ug/L		11/26/24 05:47	11/28/24 14:07	20
Hexachlorobenzene	1.96	U	11.5	1.96	ug/L		11/26/24 05:47	11/28/24 14:07	20
Hexachlorobutadiene	2.06	U	11.5	2.06	ug/L		11/26/24 05:47	11/28/24 14:07	20
Hexachloroethane	2.05	U	11.5	2.05	ug/L		11/26/24 05:47	11/28/24 14:07	20
Nitrobenzene	1.48	U	11.5	1.48	ug/L		11/26/24 05:47	11/28/24 14:07	20
Pentachlorophenol	20.9	U	23.0	20.9	ug/L		11/26/24 05:47	11/28/24 14:07	20
Pyridine	28.9	U *1	57.4	28.9	ug/L		11/26/24 05:47	11/28/24 14:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*111*		*35 - 130*	*11/26/24 05:47*	*11/28/24 14:07*	*20*
2-Fluorobiphenyl (Surr)	*74*		*43 - 130*	*11/26/24 05:47*	*11/28/24 14:07*	*20*
2-Fluorophenol (Surr)	*76*		*19 - 120*	*11/26/24 05:47*	*11/28/24 14:07*	*20*
Nitrobenzene-d5 (Surr)	*104*		*37 - 133*	*11/26/24 05:47*	*11/28/24 14:07*	*20*
p-Terphenyl-d14 (Surr)	*54*		*47 - 130*	*11/26/24 05:47*	*11/28/24 14:07*	*20*
Phenol-d5 (Surr)	*74*	*I*	*8 - 124*	*11/26/24 05:47*	*11/28/24 14:07*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	**0.000837**	**J**	0.00100	0.000196	mg/L		11/25/24 08:35	11/25/24 17:40	1
Endrin	0.0000166	U	0.0000501	0.0000166	mg/L		11/25/24 08:35	11/25/24 17:40	1
Heptachlor	**0.0000529**		0.0000501	0.0000175	mg/L		11/25/24 08:35	11/25/24 17:40	1
Heptachlor epoxide	0.0000182	U	0.0000501	0.0000182	mg/L		11/25/24 08:35	11/25/24 17:40	1
gamma-BHC (Lindane)	0.0000170	U	0.0000501	0.0000170	mg/L		11/25/24 08:35	11/25/24 17:40	1
Methoxychlor	0.0000186	U	0.0000501	0.0000186	mg/L		11/25/24 08:35	11/25/24 17:40	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 17:40	1

Client Sample ID: Salitrillo WWTP

Lab Sample ID: 860-87586-1

Date Collected: 11/20/24 10:13

Matrix: Solid

Date Received: 11/21/24 10:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	35		28 - 94	11/25/24 08:35	11/25/24 17:40	1
Tetrachloro-m-xylene	93		52 - 134	11/25/24 08:35	11/25/24 17:40	1

Method: SW846 8321B - Herbicides (LC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 18:05	1
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		50 - 150		11/25/24 18:05	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0340**	**J**	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:46	1
Barium	**0.217**		0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:46	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:46	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:46	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:46	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:46	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:46	1
Nickel	**0.0535**		0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:46	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:46	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:46	1
Zinc	**0.486**		0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:46	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:33	1

Client Sample ID: Salitrillo WWTP

Lab Sample ID: 860-87586-1

Date Collected: 11/20/24 10:13

Matrix: Solid

Date Received: 11/21/24 10:05

Percent Solids: 13.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.172	U	0.726	0.172	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1221	0.172	U	0.726	0.172	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1232	0.172	U	0.726	0.172	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1242	0.172	U	0.726	0.172	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1248	0.172	U	0.726	0.172	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1254	0.113	U	0.726	0.113	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
PCB-1260	0.113	U	0.726	0.113	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1
Polychlorinated biphenyls, Total	0.181	U	0.726	0.181	mg/Kg	☼	11/26/24 08:35	11/26/24 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		35 - 140	11/26/24 08:35	11/26/24 12:08	1
DCB Decachlorobiphenyl (Surr)	104		37 - 142	11/26/24 08:35	11/26/24 12:08	1

Surrogate Summary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
LCS 860-202024/3	Lab Control Sample	88	101	94	101
LCSD 860-202024/4	Lab Control Sample Dup	100	103	98	100
MB 860-202024/10	Method Blank	100	102	104	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
860-87586-1	Salitrillo WWTP	93	105	95	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)
LCS 860-202088/2-A	Lab Control Sample	143 S1+	115	56	103	100	46
LCSD 860-202088/3-A	Lab Control Sample Dup	142 S1+	121	60	109	100	47
MB 860-202086/1-A	Method Blank	136 S1+	113	60	102	106	47
MB 860-202088/1-A	Method Blank	141 S1+	116	55	93	97	42

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)
860-87586-1	Salitrillo WWTP	111	74	76	104	54	74 I
LB 860-201494/1-F	Method Blank	143 S1+	112	59	100	100	52

Surrogate Legend

Surrogate Summary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(28-94)	(52-134)
LCS 860-201826/2-A	Lab Control Sample	66	90
LCSD 860-201826/3-A	Lab Control Sample Dup	67	92
MB 860-201826/1-A	Method Blank	86	106

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(28-94)	(52-134)
860-87586-1	Salitrillo WWTP	35	93
LB 860-201494/1-D	Method Blank	74	114

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-87586-1	Salitrillo WWTP	89	104
LCS 860-202116/2-A	Lab Control Sample	93	106
LCSD 860-202116/3-A	Lab Control Sample Dup	88	105
MB 860-202116/1-A	Method Blank	90	103

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA
Lab Sample ID	Client Sample ID	(50-150)
LCS 860-201969/16	Lab Control Sample	102
LCSD 860-201969/17	Lab Control Sample Dup	107
MB 860-201969/21	Method Blank	97

Surrogate Legend

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Salitrillo WWTP

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCPAA (50-150)							
860-87586-1	Salitrillo WWTP	82							
LB 860-201494/1-A	Method Blank	91							

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-202024/10
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 07:26	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 07:26	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 07:26	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 07:26	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 07:26	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 07:26	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 07:26	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 07:26	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 07:26	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*11/26/24 07:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*11/26/24 07:26*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 07:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 07:26*	*1*

Lab Sample ID: LCS 860-202024/3
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04323		mg/L		86	50 - 150		
1,2-Dichloroethane			0.0500	0.04341		mg/L		87	72 - 130		
2-Butanone (MEK)			0.250	0.2494		mg/L		100	60 - 140		
Benzene			0.0500	0.04487		mg/L		90	75 - 125		
Carbon tetrachloride			0.0500	0.04880		mg/L		98	70 - 125		
Chlorobenzene			0.0500	0.04890		mg/L		98	82 - 135		
Chloroform			0.0500	0.04449		mg/L		89	70 - 121		
Tetrachloroethylene			0.0500	0.05053		mg/L		101	71 - 125		
Trichloroethylene			0.0500	0.06034		mg/L		121	75 - 135		
Vinyl chloride			0.0500	0.05627		mg/L		113	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04589		mg/L		92	50 - 150	6	25
1,2-Dichloroethane			0.0500	0.04793		mg/L		96	72 - 130	10	25
2-Butanone (MEK)			0.250	0.3170		mg/L		127	60 - 140	24	25
Benzene			0.0500	0.04898		mg/L		98	75 - 125	9	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			0.0500	0.04752		mg/L		95	70 - 125	3	25
Chlorobenzene			0.0500	0.04781		mg/L		96	82 - 135	2	25
Chloroform			0.0500	0.04851		mg/L		97	70 - 121	9	25
Tetrachloroethylene			0.0500	0.04982		mg/L		100	71 - 125	1	25
Trichloroethylene			0.0500	0.05607		mg/L		112	75 - 135	7	25
Vinyl chloride			0.0500	0.04822		mg/L		96	60 - 140	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-202086/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 15:27	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 15:27	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 15:27	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*136*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorobiphenyl (Surr)	*113*		*43 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorophenol (Surr)	*60*		*19 - 120*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*102*		*37 - 133*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
p-Terphenyl-d14 (Surr)	*106*		*47 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Phenol-d5 (Surr)	*47*		*8 - 124*	*11/26/24 05:28*	*11/26/24 15:27*	*1*

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:47	11/26/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:47	11/26/24 21:32	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:47	11/26/24 21:32	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:47	11/26/24 21:32	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:47	11/26/24 21:32	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:47	11/26/24 21:32	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:47	11/26/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*141*	*S1+*	*35 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorobiphenyl (Surr)	*116*		*43 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 120*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 133*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Phenol-d5 (Surr)	*42*		*8 - 124*	*11/26/24 05:47*	*11/26/24 21:32*	*1*

Lab Sample ID: LCS 860-202088/2-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	2.86	1.168		ug/L		41	28 - 130
2,4,5-Trichlorophenol	2.86	2.813		ug/L		98	35 - 130
2,4,6-Trichlorophenol	2.86	3.097		ug/L		108	52 - 129
2,4-Dinitrotoluene	2.86	3.376		ug/L		118	48 - 127
2-Methylphenol	2.86	2.829		ug/L		99	14 - 176
3 & 4 Methylphenol	2.86	2.390	I	ug/L		84	22 - 130
Hexachlorobenzene	2.86	3.562		ug/L		125	8 - 142
Hexachlorobutadiene	2.86	0.4983	J	ug/L		17	10 - 130
Hexachloroethane	2.86	0.4622	J	ug/L		16	10 - 130
Nitrobenzene	2.86	2.634		ug/L		92	54 - 130
Pentachlorophenol	2.86	2.649		ug/L		93	38 - 152
Pyridine	2.86	1.44	U	ug/L		12	1 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*115*		*43 - 130*
2-Fluorophenol (Surr)	*56*		*19 - 120*
Nitrobenzene-d5 (Surr)	*103*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*46*		*8 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			2.86	1.184		ug/L		41	28 - 130	1	30
2,4,5-Trichlorophenol			2.86	3.086		ug/L		108	35 - 130	9	30
2,4,6-Trichlorophenol			2.86	3.232		ug/L		113	52 - 129	4	30
2,4-Dinitrotoluene			2.86	3.421		ug/L		120	48 - 127	1	30
2-Methylphenol			2.86	2.977		ug/L		104	14 - 176	5	30
3 & 4 Methylphenol			2.86	2.579	I	ug/L		90	22 - 130	8	30
Hexachlorobenzene			2.86	3.492		ug/L		122	8 - 142	2	30
Hexachlorobutadiene			2.86	0.5458	J	ug/L		19	10 - 130	9	30
Hexachloroethane			2.86	0.5513	J	ug/L		19	10 - 130	18	30
Nitrobenzene			2.86	2.636		ug/L		92	54 - 130	0	30
Pentachlorophenol			2.86	2.878		ug/L		101	38 - 152	8	30
Pyridine			2.86	1.936	J *1	ug/L		68	1 - 126	142	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*142*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*121*		*43 - 130*
2-Fluorophenol (Surr)	*60*		*19 - 120*
Nitrobenzene-d5 (Surr)	*109*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*47*		*8 - 124*

Lab Sample ID: LB 860-201494/1-F
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 202086

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 20:00	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 20:00	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 20:00	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 20:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorobiphenyl (Surr)	*112*		*43 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorophenol (Surr)	*59*		*19 - 120*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Nitrobenzene-d5 (Surr)	*100*		*37 - 133*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Phenol-d5 (Surr)	*52*		*8 - 124*	*11/26/24 05:28*	*11/26/24 20:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-201826/1-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 11:42	1
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 11:42	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 11:42	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 11:42	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*28 - 94*	*11/25/24 08:35*	*11/25/24 11:42*	*1*
Tetrachloro-m-xylene	*106*		*52 - 134*	*11/25/24 08:35*	*11/25/24 11:42*	*1*

Lab Sample ID: LCS 860-201826/2-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.00125	0.001099		mg/L		88	55 - 102		
Heptachlor			0.00125	0.001240		mg/L		99	55 - 106		
Heptachlor epoxide			0.00125	0.001324		mg/L		106	56 - 109		
gamma-BHC (Lindane)			0.00125	0.001221		mg/L		98	59 - 107		
Methoxychlor			0.00125	0.0007952		mg/L		64	53 - 102		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*28 - 94*
Tetrachloro-m-xylene	*90*		*52 - 134*

Lab Sample ID: LCSD 860-201826/3-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.00125	0.001106		mg/L		89	55 - 102	1	25
Heptachlor			0.00125	0.001259		mg/L		101	55 - 106	1	25
Heptachlor epoxide			0.00125	0.001361		mg/L		109	56 - 109	3	25
gamma-BHC (Lindane)			0.00125	0.001251		mg/L		100	59 - 107	2	25
Methoxychlor			0.00125	0.0007886		mg/L		63	53 - 102	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 94*
Tetrachloro-m-xylene	*92*		*52 - 134*

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 13:11	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 13:11	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 13:11	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 13:11	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 13:11	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 94*	*11/25/24 08:35*	*11/25/24 13:11*	*1*
Tetrachloro-m-xylene	*114*		*52 - 134*	*11/25/24 08:35*	*11/25/24 13:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-202116/1-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1221	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1232	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1242	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1248	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1254	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1260	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
Polychlorinated biphenyls, Total	0.00417	U	0.0167	0.00417	mg/Kg		11/26/24 08:35	11/26/24 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 140*	*11/26/24 08:35*	*11/26/24 10:17*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*11/26/24 08:35*	*11/26/24 10:17*	*1*

Lab Sample ID: LCS 860-202116/2-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1754		mg/Kg		105	27 - 121		
PCB-1260			0.167	0.1783		mg/Kg		107	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-202116/3-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1721		mg/Kg		103	27 - 121	2	20
PCB-1260			0.167	0.1767		mg/Kg		106	27 - 139	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 142*

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 860-201969/21
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00120	U	0.00500	0.00120	mg/L			11/25/24 17:06	1
2,4-D	0.00108	U	0.00500	0.00108	mg/L			11/25/24 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*97*		*50 - 150*		*11/25/24 17:06*	*1*

Lab Sample ID: LCS 860-201969/16
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			0.0402	0.04903		mg/L		122	50 - 150		
2,4-D			0.0407	0.04587		mg/L		113	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*50 - 150*

Lab Sample ID: LCSD 860-201969/17
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			0.0402	0.04917		mg/L		122	50 - 150	0	30
2,4-D			0.0407	0.04648		mg/L		114	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*107*		*50 - 150*

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 17:28	1

Method: 8321B - Herbicides (LC/MS) (Continued)

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 17:28	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*50 - 150*		*11/25/24 17:28*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 860-201752/1-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00650	U	0.0100	0.00650	mg/L		11/24/24 13:06	11/25/24 11:28	1
Barium	0.00125	U	0.0100	0.00125	mg/L		11/24/24 13:06	11/25/24 11:28	1
Cadmium	0.000831	U	0.00500	0.000831	mg/L		11/24/24 13:06	11/25/24 11:28	1
Chromium	0.00216	U	0.0100	0.00216	mg/L		11/24/24 13:06	11/25/24 11:28	1
Copper	0.00388	U	0.0200	0.00388	mg/L		11/24/24 13:06	11/25/24 11:28	1
Lead	0.00368	U	0.0100	0.00368	mg/L		11/24/24 13:06	11/25/24 11:28	1
Molybdenum	0.00260	U	0.0100	0.00260	mg/L		11/24/24 13:06	11/25/24 11:28	1
Nickel	0.00177	U	0.0100	0.00177	mg/L		11/24/24 13:06	11/25/24 11:28	1
Selenium	0.00927	U	0.0300	0.00927	mg/L		11/24/24 13:06	11/25/24 11:28	1
Silver	0.00788	U	0.0200	0.00788	mg/L		11/24/24 13:06	11/25/24 11:28	1
Zinc	0.00837	U	0.0300	0.00837	mg/L		11/24/24 13:06	11/25/24 11:28	1

Lab Sample ID: LCS 860-201752/2-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.8920		mg/L		89	80 - 120
Barium	1.00	0.9050		mg/L		91	80 - 120
Cadmium	1.00	0.8750		mg/L		88	80 - 120
Chromium	1.00	0.9000		mg/L		90	80 - 120
Copper	1.00	0.8990		mg/L		90	80 - 120
Lead	1.00	0.9090		mg/L		91	80 - 120
Molybdenum	1.00	0.9100		mg/L		91	80 - 120
Nickel	1.00	0.8970		mg/L		90	80 - 120
Selenium	1.00	0.9260		mg/L		93	80 - 120
Silver	0.500	0.4580		mg/L		92	80 - 120
Zinc	1.00	0.9060		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	0.8860		mg/L		89	80 - 120	1	20
Barium	1.00	0.9060		mg/L		91	80 - 120	0	20
Cadmium	1.00	0.8750		mg/L		88	80 - 120	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	1.00	0.9010		mg/L		90	80 - 120	0	20
Copper	1.00	0.8980		mg/L		90	80 - 120	0	20
Lead	1.00	0.9100		mg/L		91	80 - 120	0	20
Molybdenum	1.00	0.9140		mg/L		91	80 - 120	0	20
Nickel	1.00	0.8980		mg/L		90	80 - 120	0	20
Selenium	1.00	0.9400		mg/L		94	80 - 120	2	20
Silver	0.500	0.4590		mg/L		92	80 - 120	0	20
Zinc	1.00	0.9070		mg/L		91	80 - 120	0	20

Lab Sample ID: LB 860-201494/1-B
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201752

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:33	1
Barium	0.00625	U	0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:33	1
Cadmium	0.005200	J	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:33	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:33	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:33	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:33	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:33	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:33	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:33	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:33	1
Zinc	0.0419	U	0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-201856/1-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:43	11/25/24 19:13	1

Lab Sample ID: LCS 860-201856/2-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.001979		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-201856/3-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201856

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.001949		mg/L		97	80 - 120	2	20

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 860-201494/1-E
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201856

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:17	1

GC/MS VOA

Leach Batch: 201619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	1311	

Analysis Batch: 202024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	8260D	201619
MB 860-202024/10	Method Blank	Total/NA	Solid	8260D	
LCS 860-202024/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-202024/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	1311	
LB 860-201494/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 202086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-201494/1-F	Method Blank	TCLP	Solid	3511	201494
MB 860-202086/1-A	Method Blank	Total/NA	Solid	3511	

Prep Batch: 202088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	3511	201494
MB 860-202088/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-202088/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-202088/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 202148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-201494/1-F	Method Blank	TCLP	Solid	8270E	202086
MB 860-202086/1-A	Method Blank	Total/NA	Solid	8270E	202086
MB 860-202088/1-A	Method Blank	Total/NA	Solid	8270E	202088
LCS 860-202088/2-A	Lab Control Sample	Total/NA	Solid	8270E	202088
LCSD 860-202088/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	202088

Analysis Batch: 202604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	8270E	202088

GC Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	1311	
LB 860-201494/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 201826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	3511	201494
LB 860-201494/1-D	Method Blank	TCLP	Solid	3511	201494
MB 860-201826/1-A	Method Blank	Total/NA	Solid	3511	

GC Semi VOA (Continued)

Prep Batch: 201826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-201826/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-201826/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 201840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	8081B	201826
LB 860-201494/1-D	Method Blank	TCLP	Solid	8081B	201826
MB 860-201826/1-A	Method Blank	Total/NA	Solid	8081B	201826
LCS 860-201826/2-A	Lab Control Sample	Total/NA	Solid	8081B	201826
LCSD 860-201826/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	201826

Analysis Batch: 202114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	Total/NA	Solid	8082A	202116
MB 860-202116/1-A	Method Blank	Total/NA	Solid	8082A	202116
LCS 860-202116/2-A	Lab Control Sample	Total/NA	Solid	8082A	202116
LCSD 860-202116/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	202116

Prep Batch: 202116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	Total/NA	Solid	3550C	
MB 860-202116/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-202116/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-202116/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

LCMS

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	1311	
LB 860-201494/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 201969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	8321B	201494
LB 860-201494/1-A	Method Blank	TCLP	Solid	8321B	201494
MB 860-201969/21	Method Blank	Total/NA	Solid	8321B	
LCS 860-201969/16	Lab Control Sample	Total/NA	Solid	8321B	
LCSD 860-201969/17	Lab Control Sample Dup	Total/NA	Solid	8321B	

Metals

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	1311	
LB 860-201494/1-B	Method Blank	TCLP	Solid	1311	
LB 860-201494/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 201752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	3010A	201494
LB 860-201494/1-B	Method Blank	TCLP	Solid	3010A	201494

Metals (Continued)

Prep Batch: 201752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-201752/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-201752/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-201752/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Prep Batch: 201856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	7470A	201494
LB 860-201494/1-E	Method Blank	TCLP	Solid	7470A	201494
MB 860-201856/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 860-201856/2-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 860-201856/3-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 201945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	6010D	201752
LB 860-201494/1-B	Method Blank	TCLP	Solid	6010D	201752
MB 860-201752/1-A	Method Blank	Total/NA	Solid	6010D	201752
LCS 860-201752/2-A	Lab Control Sample	Total/NA	Solid	6010D	201752
LCSD 860-201752/3-A	Lab Control Sample Dup	Total/NA	Solid	6010D	201752

Analysis Batch: 202036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	TCLP	Solid	7470A	201856
LB 860-201494/1-E	Method Blank	TCLP	Solid	7470A	201856
MB 860-201856/1-A	Method Blank	Total/NA	Solid	7470A	201856
LCS 860-201856/2-A	Lab Control Sample	Total/NA	Solid	7470A	201856
LCSD 860-201856/3-A	Lab Control Sample Dup	Total/NA	Solid	7470A	201856

General Chemistry

Analysis Batch: 202534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-1	Salitrillo WWTP	Total/NA	Solid	Moisture	
MB 860-202534/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Client Sample ID: Salitrillo WWTP
Date Collected: 11/20/24 10:13
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.10 g	400 mL	201619	11/22/24 17:00	JCM	EET HOU
							Completed:	11/23/24 09:00 [1]		
TCLP	Analysis	8260D		50	5 mL	5 mL	202024	11/26/24 10:52	KLV	EET HOU
TCLP	Leach	1311			100.15 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			69.7 mL	4 mL	202088	11/26/24 05:47	DR	EET HOU
TCLP	Analysis	8270E		20	1 mL	1 mL	202604	11/28/24 14:07	PXS	EET HOU
TCLP	Leach	1311			100.15 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			49.9 mL	5 mL	201826	11/25/24 08:35	DR	EET HOU
TCLP	Analysis	8081B		1			201840	11/25/24 17:40	KM	EET HOU
TCLP	Leach	1311			100.15 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Analysis	8321B		1	0.2 mL	1 mL	201969	11/25/24 18:05	JBS	EET HOU
TCLP	Leach	1311			100.15 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	201752	11/24/24 13:07	PB	EET HOU
TCLP	Analysis	6010D		1			201945	11/25/24 11:46	JDM	EET HOU
TCLP	Leach	1311			100.15 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	7470A			50 mL	50 mL	201856	11/25/24 09:44	AGR	EET HOU
TCLP	Analysis	7470A		1			202036	11/25/24 19:33	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			202534	11/27/24 10:52	JC	EET HOU

Client Sample ID: Salitrillo WWTP
Date Collected: 11/20/24 10:13
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-1
Matrix: Solid
Percent Solids: 13.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			5.03 g	5 mL	202116	11/26/24 08:35	BH	EET HOU
Total/NA	Analysis	8082A		1			202114	11/26/24 12:08	KM	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Salitrillo WWTP

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Method Summary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8321B	Herbicides (LC/MS)	SW846	EET HOU
6010D	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Project/Site: Salitrillo WWTP

Job ID: 860-87586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-87586-1	Salitrillo WWTP	Solid	11/20/24 10:13	11/21/24 10:05

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

San Antonio #239

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12/3/2024 (Rev. 1)

Client Information	Sampler: Ernest Munoz	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 840-4104-595.1
Client Contact: Ernest Munoz	Phone: (210) 773-3336	E-Mail: Lindy.Maingot@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: San Antonio River Authority	PWSID:			Job #:
Address: 100 E. Guenther	Due Date Requested:			
City: San Antonio	TAT Requested (days):			
State, Zip: TX, 78204	Compliance Project: Δ Yes Δ No			
Phone: 210-373-1336(Tel)	PO #: Purchase Order Requested			
Email: emunoz@sariverauthority.org	WO #:			
Project Name: Annual TCLP Sampling	Project #: 84000389			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7470A TCLP Metals + Cu,Mo,Ni and Zn, 8081B TCLP OC Pesticides, 8260D TCLP Volatiles	8082A Total PCBs, 8270E_QQQ TCLP Semi-Volatiles, 8321B TCLP Herbicides, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Salitillo WWTP	11 2	8 30 AM	G	Solid			X	X		
Martinez II WWTP	11 2	8 50 AM	G	Solid			X	X		
Martinez IV WWTP	24	9 20 AM	C	Solid			X	X		
Gardenville Composting Waste Facility	20 4	45 PM	G	Solid			X	X		
Upper Martinez WWTP	11 24	0 PM	C	~~Solid~~			X	X		

Preservation Codes: N None; Other

Temp 2 4 IR ID:HOU-368
C/F -0.1
Corrected Temp: 2.3

Temp: 2 6 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 5

Temp: 2 3 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 2

860-87586 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11 20 24			11 20 24 2 15pm	
Relinquished by:	Date/Time: 11 20 24	Company	Received by: Fed x	Date/Time: 11 20 24 16 00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/21/24 1005	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.3 CF 1.8 Tesco001 +0.5

Ver 05/06/2024

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 860-87586-1

Login Number: 87586
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ernest Munoz
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Generated 12/4/2024 8:58:24 AM Revision 5

JOB DESCRIPTION

Upper Martinez WWTP

JOB NUMBER

860-87586-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/4/2024 8:58:24 AM
Revision 5

Authorized for release by
Lindy Maingot, Project Manager II
Lindy.Maingot@et.eurofinsus.com
(210)344-9751

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Definitions/Glossary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 860-87586-1 — Eurofins Houston

Job Narrative
860-87586-1

Revised Report
Each sample was put on a different report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/21/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.3°C and 2.5°C.

GC/MS VOA
Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202024 recovered above the upper control limit for 2-Butanone (23.3%) and Vinyl chloride (20.8%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202024/2).

Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202193 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202193/2).

Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-202193 recovered outside control limits for the following analytes: Carbon tetrachloride These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202148 recovered above the upper control limit for 2,4,6-Tribromophenol (Surr), 3 & 4 Methylphenol, 2-Methylphenol, 2,4-Dinitrotoluene, 1,4-Dichlorobenzene and Phenol-d5 (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202148/2).

Method 8270E_QQQ - TCLP: The surrogate recovery for the leachate blank associated with preparation batch 860-201494 and 860-202086 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-202088 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202604 recovered above the upper control limit for Pentachlorophenol and 2,4,6-Tribromophenol (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202604/2).

Method 8270E_QQQ - TCLP: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-202088 and analytical batch 860-202148 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Gardenville Composing Waste Facility (860-87586-4). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Martinez IV WWTP (860-87586-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E_QQQ - TCLP: The following sample was diluted due to the nature of the sample matrix: Martinez IV WWTP (860-87586-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: press cake. weighed to 5 grams

Saltillo WWTP (860-87586-1) and Martinez II WWTP (860-87586-2)

Method 8082A: sludge. weighed to 5 grams

Martinez IV WWTP (860-87586-3) and Gardenville Composing Waste Facility (860-87586-4)

Method 8082A: dark soil. weighed to 5 grams

Upper Martinez WWTP (860-87586-5)

Method 8082A: The following sample(s) required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: Lot#MKCS1129. Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B - TCLP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8321B_Herb - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Gardenville Composing Waste Facility (860-87586-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8321B_Herb - TCLP: The continuing calibration verification (CCV) associated with batch 860-201969 recovered above the upper control limit for 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 860-201969/9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - TCLP: The Leachate blank for preparation batch 860-201494 and 860-201752 and analytical batch 860-201945 contained Cadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorodane	0.000822	J	0.000994	0.000194	mg/L	1		8081B	TCLP
Heptachlor	0.0000520		0.0000497	0.0000173	mg/L	1		8081B	TCLP
Barium	0.0346	J	0.0500	0.00625	mg/L	1		6010D	TCLP
Zinc	0.0750	J	0.150	0.0419	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Date Collected: 11/20/24 13:10

Matrix: Solid

Date Received: 11/21/24 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0369	U	0.0500	0.0369	mg/L			11/26/24 21:45	50
1,2-Dichloroethane	0.0186	U	0.0500	0.0186	mg/L			11/26/24 21:45	50
2-Butanone (MEK)	0.414	U	2.50	0.414	mg/L			11/26/24 21:45	50
Benzene	0.0230	U	0.0500	0.0230	mg/L			11/26/24 21:45	50
Carbon tetrachloride	0.0448	U *+	0.250	0.0448	mg/L			11/26/24 21:45	50
Chlorobenzene	0.0228	U	0.0500	0.0228	mg/L			11/26/24 21:45	50
Chloroform	0.0232	U	0.0500	0.0232	mg/L			11/26/24 21:45	50
Tetrachloroethylene	0.0328	U	0.0500	0.0328	mg/L			11/26/24 21:45	50
Trichloroethylene	0.0750	U	0.250	0.0750	mg/L			11/26/24 21:45	50
Vinyl chloride	0.0214	U	0.100	0.0214	mg/L			11/26/24 21:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*11/26/24 21:45*	*50*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*11/26/24 21:45*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*11/26/24 21:45*	*50*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 21:45*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.56	U	11.5	1.56	ug/L		11/26/24 05:47	11/28/24 16:03	20
2,4,5-Trichlorophenol	2.88	U	11.5	2.88	ug/L		11/26/24 05:47	11/28/24 16:03	20
2,4,6-Trichlorophenol	4.64	U	11.5	4.64	ug/L		11/26/24 05:47	11/28/24 16:03	20
2,4-Dinitrotoluene	4.11	U	11.5	4.11	ug/L		11/26/24 05:47	11/28/24 16:03	20
2-Methylphenol	2.10	U	11.5	2.10	ug/L		11/26/24 05:47	11/28/24 16:03	20
3 & 4 Methylphenol	2.79	U	11.5	2.79	ug/L		11/26/24 05:47	11/28/24 16:03	20
Hexachlorobenzene	1.96	U	11.5	1.96	ug/L		11/26/24 05:47	11/28/24 16:03	20
Hexachlorobutadiene	2.06	U	11.5	2.06	ug/L		11/26/24 05:47	11/28/24 16:03	20
Hexachloroethane	2.05	U	11.5	2.05	ug/L		11/26/24 05:47	11/28/24 16:03	20
Nitrobenzene	1.48	U	11.5	1.48	ug/L		11/26/24 05:47	11/28/24 16:03	20
Pentachlorophenol	20.9	U	23.0	20.9	ug/L		11/26/24 05:47	11/28/24 16:03	20
Pyridine	28.9	U *1	57.4	28.9	ug/L		11/26/24 05:47	11/28/24 16:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*126*		*35 - 130*	*11/26/24 05:47*	*11/28/24 16:03*	*20*
2-Fluorobiphenyl (Surr)	*96*		*43 - 130*	*11/26/24 05:47*	*11/28/24 16:03*	*20*
2-Fluorophenol (Surr)	*68*		*19 - 120*	*11/26/24 05:47*	*11/28/24 16:03*	*20*
Nitrobenzene-d5 (Surr)	*116*		*37 - 133*	*11/26/24 05:47*	*11/28/24 16:03*	*20*
p-Terphenyl-d14 (Surr)	*69*		*47 - 130*	*11/26/24 05:47*	*11/28/24 16:03*	*20*
Phenol-d5 (Surr)	*73*	*I*	*8 - 124*	*11/26/24 05:47*	*11/28/24 16:03*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	**0.000822**	**J**	0.000994	0.000194	mg/L		11/25/24 08:35	11/25/24 18:25	1
Endrin	0.0000165	U	0.0000497	0.0000165	mg/L		11/25/24 08:35	11/25/24 18:25	1
Heptachlor	**0.0000520**		0.0000497	0.0000173	mg/L		11/25/24 08:35	11/25/24 18:25	1
Heptachlor epoxide	0.0000181	U	0.0000497	0.0000181	mg/L		11/25/24 08:35	11/25/24 18:25	1
gamma-BHC (Lindane)	0.0000169	U	0.0000497	0.0000169	mg/L		11/25/24 08:35	11/25/24 18:25	1
Methoxychlor	0.0000185	U	0.0000497	0.0000185	mg/L		11/25/24 08:35	11/25/24 18:25	1
Toxaphene	0.000316	U	0.000994	0.000316	mg/L		11/25/24 08:35	11/25/24 18:25	1

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Date Collected: 11/20/24 13:10

Matrix: Solid

Date Received: 11/21/24 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*28 - 94*	*11/25/24 08:35*	*11/25/24 18:25*	*1*
Tetrachloro-m-xylene	*99*		*52 - 134*	*11/25/24 08:35*	*11/25/24 18:25*	*1*

Method: SW846 8321B - Herbicides (LC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 18:34	1
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*98*		*50 - 150*		*11/25/24 18:34*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:53	1
Barium	**0.0346**	**J**	0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:53	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:53	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:53	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:53	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:53	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:53	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:53	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:53	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:53	1
Zinc	**0.0750**	**J**	0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:53	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:42	1

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Date Collected: 11/20/24 13:10

Matrix: Solid

Date Received: 11/21/24 10:05

Percent Solids: 0.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	3.38	U	14.3	3.38	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1221	3.38	U	14.3	3.38	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1232	3.38	U	14.3	3.38	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1242	3.38	U	14.3	3.38	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1248	3.38	U	14.3	3.38	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1254	2.23	U	14.3	2.23	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
PCB-1260	2.23	U	14.3	2.23	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1
Polychlorinated biphenyls, Total	3.56	U	14.3	3.56	mg/Kg	☼	11/26/24 08:35	11/26/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*35 - 140*	*11/26/24 08:35*	*11/26/24 12:57*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 142*	*11/26/24 08:35*	*11/26/24 12:57*	*1*

Surrogate Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)				
860-87586-5	Upper Martinez WWTP	104	101	103	103				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)		
860-87586-5	Upper Martinez WWTP	126	96	68	116	69	73 I		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	TCX1						
Lab Sample ID	Client Sample ID	(28-94)	(52-134)						
860-87586-5	Upper Martinez WWTP	57	99						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(35-140)	(37-142)						
860-87586-5	Upper Martinez WWTP	92	105						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCPAA (50-150)								
860-87586-5	Upper Martinez WWTP	98								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-202024/10
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 07:26	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 07:26	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 07:26	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 07:26	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 07:26	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 07:26	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 07:26	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 07:26	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 07:26	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*11/26/24 07:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*11/26/24 07:26*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 07:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 07:26*	*1*

Lab Sample ID: LCS 860-202024/3
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04323		mg/L		86	50 - 150		
1,2-Dichloroethane			0.0500	0.04341		mg/L		87	72 - 130		
2-Butanone (MEK)			0.250	0.2494		mg/L		100	60 - 140		
Benzene			0.0500	0.04487		mg/L		90	75 - 125		
Carbon tetrachloride			0.0500	0.04880		mg/L		98	70 - 125		
Chlorobenzene			0.0500	0.04890		mg/L		98	82 - 135		
Chloroform			0.0500	0.04449		mg/L		89	70 - 121		
Tetrachloroethylene			0.0500	0.05053		mg/L		101	71 - 125		
Trichloroethylene			0.0500	0.06034		mg/L		121	75 - 135		
Vinyl chloride			0.0500	0.05627		mg/L		113	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04589		mg/L		92	50 - 150	6	25
1,2-Dichloroethane			0.0500	0.04793		mg/L		96	72 - 130	10	25
2-Butanone (MEK)			0.250	0.3170		mg/L		127	60 - 140	24	25
Benzene			0.0500	0.04898		mg/L		98	75 - 125	9	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			0.0500	0.04752		mg/L		95	70 - 125	3	25
Chlorobenzene			0.0500	0.04781		mg/L		96	82 - 135	2	25
Chloroform			0.0500	0.04851		mg/L		97	70 - 121	9	25
Tetrachloroethylene			0.0500	0.04982		mg/L		100	71 - 125	1	25
Trichloroethylene			0.0500	0.05607		mg/L		112	75 - 135	7	25
Vinyl chloride			0.0500	0.04822		mg/L		96	60 - 140	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 860-202193/8
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 19:01	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 19:01	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 19:01	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 19:01	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 19:01	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 19:01	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 19:01	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 19:01	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 19:01	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*11/26/24 19:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*11/26/24 19:01*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 19:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 19:01*	*1*

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04853		mg/L		97	50 - 150		
1,2-Dichloroethane			0.0500	0.04865		mg/L		97	72 - 130		
2-Butanone (MEK)			0.250	0.2397		mg/L		96	60 - 140		
Benzene			0.0500	0.05182		mg/L		104	75 - 125		
Carbon tetrachloride			0.0500	0.06828	*+	mg/L		137	70 - 125		
Chlorobenzene			0.0500	0.05025		mg/L		101	82 - 135		
Chloroform			0.0500	0.05083		mg/L		102	70 - 121		
Tetrachloroethylene			0.0500	0.05164		mg/L		103	71 - 125		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethylene			0.0500	0.05123		mg/L		102	75 - 135		
Vinyl chloride			0.0500	0.05517		mg/L		110	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-202193/4
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04822		mg/L		96	50 - 150	1	25
1,2-Dichloroethane			0.0500	0.04942		mg/L		99	72 - 130	2	25
2-Butanone (MEK)			0.250	0.2284		mg/L		91	60 - 140	5	25
Benzene			0.0500	0.05261		mg/L		105	75 - 125	2	25
Carbon tetrachloride			0.0500	0.06752	*+	mg/L		135	70 - 125	1	25
Chlorobenzene			0.0500	0.05112		mg/L		102	82 - 135	2	25
Chloroform			0.0500	0.05114		mg/L		102	70 - 121	1	25
Tetrachloroethylene			0.0500	0.05212		mg/L		104	71 - 125	1	25
Trichloroethylene			0.0500	0.05251		mg/L		105	75 - 135	2	25
Vinyl chloride			0.0500	0.05444		mg/L		109	60 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00369	U	0.00500	0.00369	mg/L			11/26/24 18:40	5
1,2-Dichloroethane	0.00186	U	0.00500	0.00186	mg/L			11/26/24 18:40	5
2-Butanone (MEK)	0.0414	U	0.250	0.0414	mg/L			11/26/24 18:40	5
Benzene	0.00230	U	0.00500	0.00230	mg/L			11/26/24 18:40	5
Carbon tetrachloride	0.00448	U	0.0250	0.00448	mg/L			11/26/24 18:40	5
Chlorobenzene	0.00228	U	0.00500	0.00228	mg/L			11/26/24 18:40	5
Chloroform	0.00232	U	0.00500	0.00232	mg/L			11/26/24 18:40	5
Tetrachloroethylene	0.00328	U	0.00500	0.00328	mg/L			11/26/24 18:40	5
Trichloroethylene	0.00750	U	0.0250	0.00750	mg/L			11/26/24 18:40	5
Vinyl chloride	0.00214	U	0.0100	0.00214	mg/L			11/26/24 18:40	5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*11/26/24 18:40*	*5*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*11/26/24 18:40*	*5*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*11/26/24 18:40*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 18:40*	*5*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-202086/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 15:27	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 15:27	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 15:27	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 15:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*136*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorobiphenyl (Surr)	*113*		*43 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorophenol (Surr)	*60*		*19 - 120*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*102*		*37 - 133*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
p-Terphenyl-d14 (Surr)	*106*		*47 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Phenol-d5 (Surr)	*47*		*8 - 124*	*11/26/24 05:28*	*11/26/24 15:27*	*1*

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:47	11/26/24 21:32	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:47	11/26/24 21:32	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:47	11/26/24 21:32	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:47	11/26/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:47	11/26/24 21:32	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:47	11/26/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*141*	*S1+*	*35 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorobiphenyl (Surr)	*116*		*43 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 120*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 133*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Phenol-d5 (Surr)	*42*		*8 - 124*	*11/26/24 05:47*	*11/26/24 21:32*	*1*

Lab Sample ID: LCS 860-202088/2-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	2.86	1.168		ug/L		41	28 - 130
2,4,5-Trichlorophenol	2.86	2.813		ug/L		98	35 - 130
2,4,6-Trichlorophenol	2.86	3.097		ug/L		108	52 - 129
2,4-Dinitrotoluene	2.86	3.376		ug/L		118	48 - 127
2-Methylphenol	2.86	2.829		ug/L		99	14 - 176
3 & 4 Methylphenol	2.86	2.390	I	ug/L		84	22 - 130
Hexachlorobenzene	2.86	3.562		ug/L		125	8 - 142
Hexachlorobutadiene	2.86	0.4983	J	ug/L		17	10 - 130
Hexachloroethane	2.86	0.4622	J	ug/L		16	10 - 130
Nitrobenzene	2.86	2.634		ug/L		92	54 - 130
Pentachlorophenol	2.86	2.649		ug/L		93	38 - 152
Pyridine	2.86	1.44	U	ug/L		12	1 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*115*		*43 - 130*
2-Fluorophenol (Surr)	*56*		*19 - 120*
Nitrobenzene-d5 (Surr)	*103*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*46*		*8 - 124*

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	2.86	1.184		ug/L		41	28 - 130	1	30
2,4,5-Trichlorophenol	2.86	3.086		ug/L		108	35 - 130	9	30
2,4,6-Trichlorophenol	2.86	3.232		ug/L		113	52 - 129	4	30
2,4-Dinitrotoluene	2.86	3.421		ug/L		120	48 - 127	1	30
2-Methylphenol	2.86	2.977		ug/L		104	14 - 176	5	30
3 & 4 Methylphenol	2.86	2.579	I	ug/L		90	22 - 130	8	30

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobenzene			2.86	3.492		ug/L		122	8 - 142	2	30
Hexachlorobutadiene			2.86	0.5458	J	ug/L		19	10 - 130	9	30
Hexachloroethane			2.86	0.5513	J	ug/L		19	10 - 130	18	30
Nitrobenzene			2.86	2.636		ug/L		92	54 - 130	0	30
Pentachlorophenol			2.86	2.878		ug/L		101	38 - 152	8	30
Pyridine			2.86	1.936	J *1	ug/L		68	1 - 126	142	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*142*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*121*		*43 - 130*
2-Fluorophenol (Surr)	*60*		*19 - 120*
Nitrobenzene-d5 (Surr)	*109*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*47*		*8 - 124*

Lab Sample ID: LB 860-201494/1-F
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 202086

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 20:00	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 20:00	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 20:00	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 20:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorobiphenyl (Surr)	*112*		*43 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorophenol (Surr)	*59*		*19 - 120*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Nitrobenzene-d5 (Surr)	*100*		*37 - 133*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Phenol-d5 (Surr)	*52*		*8 - 124*	*11/26/24 05:28*	*11/26/24 20:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-201826/1-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 11:42	1
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 11:42	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 11:42	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 11:42	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*28 - 94*	*11/25/24 08:35*	*11/25/24 11:42*	*1*
Tetrachloro-m-xylene	*106*		*52 - 134*	*11/25/24 08:35*	*11/25/24 11:42*	*1*

Lab Sample ID: LCS 860-201826/2-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.00125	0.001099		mg/L		88	55 - 102		
Heptachlor			0.00125	0.001240		mg/L		99	55 - 106		
Heptachlor epoxide			0.00125	0.001324		mg/L		106	56 - 109		
gamma-BHC (Lindane)			0.00125	0.001221		mg/L		98	59 - 107		
Methoxychlor			0.00125	0.0007952		mg/L		64	53 - 102		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*28 - 94*
Tetrachloro-m-xylene	*90*		*52 - 134*

Lab Sample ID: LCSD 860-201826/3-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.00125	0.001106		mg/L		89	55 - 102	1	25
Heptachlor			0.00125	0.001259		mg/L		101	55 - 106	1	25
Heptachlor epoxide			0.00125	0.001361		mg/L		109	56 - 109	3	25
gamma-BHC (Lindane)			0.00125	0.001251		mg/L		100	59 - 107	2	25
Methoxychlor			0.00125	0.0007886		mg/L		63	53 - 102	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 94*
Tetrachloro-m-xylene	*92*		*52 - 134*

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 13:11	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 13:11	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 13:11	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 13:11	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 13:11	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 94*	*11/25/24 08:35*	*11/25/24 13:11*	*1*
Tetrachloro-m-xylene	*114*		*52 - 134*	*11/25/24 08:35*	*11/25/24 13:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-202116/1-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1221	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1232	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1242	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1248	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1254	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1260	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
Polychlorinated biphenyls, Total	0.00417	U	0.0167	0.00417	mg/Kg		11/26/24 08:35	11/26/24 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 140*	*11/26/24 08:35*	*11/26/24 10:17*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*11/26/24 08:35*	*11/26/24 10:17*	*1*

Lab Sample ID: LCS 860-202116/2-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1754		mg/Kg		105	27 - 121		
PCB-1260			0.167	0.1783		mg/Kg		107	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-202116/3-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1721		mg/Kg		103	27 - 121	2	20
PCB-1260			0.167	0.1767		mg/Kg		106	27 - 139	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 142*

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 860-201969/21
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00120	U	0.00500	0.00120	mg/L			11/25/24 17:06	1
2,4-D	0.00108	U	0.00500	0.00108	mg/L			11/25/24 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*97*		*50 - 150*		*11/25/24 17:06*	*1*

Lab Sample ID: LCS 860-201969/16
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			0.0402	0.04903		mg/L		122	50 - 150		
2,4-D			0.0407	0.04587		mg/L		113	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*50 - 150*

Lab Sample ID: LCSD 860-201969/17
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			0.0402	0.04917		mg/L		122	50 - 150	0	30
2,4-D			0.0407	0.04648		mg/L		114	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*107*		*50 - 150*

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 17:28	1

Method: 8321B - Herbicides (LC/MS) (Continued)

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 17:28	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*50 - 150*		*11/25/24 17:28*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 860-201752/1-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00650	U	0.0100	0.00650	mg/L		11/24/24 13:06	11/25/24 11:28	1
Barium	0.00125	U	0.0100	0.00125	mg/L		11/24/24 13:06	11/25/24 11:28	1
Cadmium	0.000831	U	0.00500	0.000831	mg/L		11/24/24 13:06	11/25/24 11:28	1
Chromium	0.00216	U	0.0100	0.00216	mg/L		11/24/24 13:06	11/25/24 11:28	1
Copper	0.00388	U	0.0200	0.00388	mg/L		11/24/24 13:06	11/25/24 11:28	1
Lead	0.00368	U	0.0100	0.00368	mg/L		11/24/24 13:06	11/25/24 11:28	1
Molybdenum	0.00260	U	0.0100	0.00260	mg/L		11/24/24 13:06	11/25/24 11:28	1
Nickel	0.00177	U	0.0100	0.00177	mg/L		11/24/24 13:06	11/25/24 11:28	1
Selenium	0.00927	U	0.0300	0.00927	mg/L		11/24/24 13:06	11/25/24 11:28	1
Silver	0.00788	U	0.0200	0.00788	mg/L		11/24/24 13:06	11/25/24 11:28	1
Zinc	0.00837	U	0.0300	0.00837	mg/L		11/24/24 13:06	11/25/24 11:28	1

Lab Sample ID: LCS 860-201752/2-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.8920		mg/L		89	80 - 120
Barium	1.00	0.9050		mg/L		91	80 - 120
Cadmium	1.00	0.8750		mg/L		88	80 - 120
Chromium	1.00	0.9000		mg/L		90	80 - 120
Copper	1.00	0.8990		mg/L		90	80 - 120
Lead	1.00	0.9090		mg/L		91	80 - 120
Molybdenum	1.00	0.9100		mg/L		91	80 - 120
Nickel	1.00	0.8970		mg/L		90	80 - 120
Selenium	1.00	0.9260		mg/L		93	80 - 120
Silver	0.500	0.4580		mg/L		92	80 - 120
Zinc	1.00	0.9060		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	0.8860		mg/L		89	80 - 120	1	20
Barium	1.00	0.9060		mg/L		91	80 - 120	0	20
Cadmium	1.00	0.8750		mg/L		88	80 - 120	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			1.00	0.9010		mg/L		90	80 - 120	0	20
Copper			1.00	0.8980		mg/L		90	80 - 120	0	20
Lead			1.00	0.9100		mg/L		91	80 - 120	0	20
Molybdenum			1.00	0.9140		mg/L		91	80 - 120	0	20
Nickel			1.00	0.8980		mg/L		90	80 - 120	0	20
Selenium			1.00	0.9400		mg/L		94	80 - 120	2	20
Silver			0.500	0.4590		mg/L		92	80 - 120	0	20
Zinc			1.00	0.9070		mg/L		91	80 - 120	0	20

Lab Sample ID: LB 860-201494/1-B
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201752

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:33	1
Barium	0.00625	U	0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:33	1
Cadmium	0.005200	J	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:33	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:33	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:33	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:33	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:33	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:33	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:33	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:33	1
Zinc	0.0419	U	0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-201856/1-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:43	11/25/24 19:13	1

Lab Sample ID: LCS 860-201856/2-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00200	0.001979		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-201856/3-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00200	0.001949		mg/L		97	80 - 120	2	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 860-201494/1-E
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201856

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:17	1

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

GC/MS VOA

Leach Batch: 201619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	1311	

Analysis Batch: 202193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	8260D	201619

GC/MS Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	1311	

Prep Batch: 202088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	3511	201494

Analysis Batch: 202604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	8270E	202088

GC Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	1311	

Prep Batch: 201826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	3511	201494

Analysis Batch: 201840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	8081B	201826

Analysis Batch: 202114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	Total/NA	Solid	8082A	202116

Prep Batch: 202116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	Total/NA	Solid	3550C	

LCMS

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	1311	

Analysis Batch: 201969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	8321B	201494

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Metals

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	1311	

Prep Batch: 201752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	3010A	201494

Prep Batch: 201856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	7470A	201494

Analysis Batch: 201945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	6010D	201752

Analysis Batch: 202036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	TCLP	Solid	7470A	201856

General Chemistry

Analysis Batch: 202532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-5	Upper Martinez WWTP	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Date Collected: 11/20/24 13:10

Matrix: Solid

Date Received: 11/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.30 g	400 mL	201619	11/22/24 17:00	JCM	EET HOU
							Completed:	11/23/24 09:00 [1]		
TCLP	Analysis	8260D		50	5 mL	5 mL	202193	11/26/24 21:45	A1S	EET HOU
TCLP	Leach	1311			100.02 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			69.7 mL	4 mL	202088	11/26/24 05:47	DR	EET HOU
TCLP	Analysis	8270E		20	1 mL	1 mL	202604	11/28/24 16:03	PXS	EET HOU
TCLP	Leach	1311			100.02 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			50.3 mL	5 mL	201826	11/25/24 08:35	DR	EET HOU
TCLP	Analysis	8081B		1			201840	11/25/24 18:25	KM	EET HOU
TCLP	Leach	1311			100.02 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Analysis	8321B		1	0.2 mL	1 mL	201969	11/25/24 18:34	JBS	EET HOU
TCLP	Leach	1311			100.02 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	201752	11/24/24 13:07	PB	EET HOU
TCLP	Analysis	6010D		1			201945	11/25/24 11:53	JDM	EET HOU
TCLP	Leach	1311			100.02 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	7470A			50 mL	50 mL	201856	11/25/24 09:44	AGR	EET HOU
TCLP	Analysis	7470A		1			202036	11/25/24 19:42	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			202532	11/27/24 10:52	JC	EET HOU

Client Sample ID: Upper Martinez WWTP

Lab Sample ID: 860-87586-5

Date Collected: 11/20/24 13:10

Matrix: Solid

Date Received: 11/21/24 10:05

Percent Solids: 0.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			5.01 g	5 mL	202116	11/26/24 08:35	BH	EET HOU
Total/NA	Analysis	8082A		1			202114	11/26/24 12:57	KM	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Method Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8321B	Herbicides (LC/MS)	SW846	EET HOU
6010D	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-87586-5	Upper Martinez WWTP	Solid	11/20/24 13:10	11/21/24 10:05

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

San Antonio #239

eurofins | Environment Testing

Client Information	Sampler: Ernest Munoz	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 840-4104-595.1
Client Contact: Ernest Munoz	Phone: (201) 773 336	E-Mail: Lindy.Maingot@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: San Antonio River Authority	PWSID:			Job #:
Address: 100 E. Guenther	Due Date Requested:			
City: San Antonio	TAT Requested (days):			
State, Zip: TX, 78204	Compliance Project: Δ Yes Δ No			
Phone: 210-373-1336(Tel)	PO #: Purchase Order Requested			
Email: emunoz@sariverauthority.org	WO #:			
Project Name: Annual TCLP Sampling	Project #: 84000389			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wewater, S=solid, Dwwaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7470A TCLP Metals + Cu,Mo,Ni and Zn, 8081B TCLP OC Pesticides, 8260D TCLP Volatiles	8082A Total PCBs, 8270E_QQQ TCLP Semi-Volatiles, 8321B TCLP Herbicides, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Salitillo WWTP	2 2	8 30 AM	G	Solid			X	X		
Martinez II WWTP	10 2	8 05 AM	G	Solid			X	X		
Martinez IV WWTP	24	9 20 AM	C	Solid			X	X		
Gardenville Composting Waste Facility	20 4	45 AM	G	Solid			X	X		
Upper Martinez WWTP	2 24	0 PM	C	~~Solid~~			X	X		

860-87586 Chain of Custody

Temp 2 4 IR ID:HOU-368
C/F -0.1
Corrected Temp: 2.3

Temp: 2 6 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 5

Temp: 2 3 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 2

Preservation Codes: N None ... Other

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11 20 24			11 20 24 1515	
2		11 20 24		Fed x	11 20 24 1600	
3					11/21/24 1005	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.3 CIF 1.8 Iesc001 +0.5

Ver 05/06/2024

12/4/2024 (Rev. 5)

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 860-87586-1

Login Number: 87586
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ernest Munoz
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Generated 12/4/2024 8:47:07 AM Revision 2

JOB DESCRIPTION

Martinez II WWTP

JOB NUMBER

860-87586-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
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Revision 2

Authorized for release by
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 860-87586-1 — Eurofins Houston

Job Narrative
860-87586-1

Revised Report
Each sample was put on a different report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/21/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.3°C and 2.5°C.

GC/MS VOA
Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202024 recovered above the upper control limit for 2-Butanone (23.3%) and Vinyl chloride (20.8%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202024/2).

Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202193 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202193/2).

Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-202193 recovered outside control limits for the following analytes: Carbon tetrachloride These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202148 recovered above the upper control limit for 2,4,6-Tribromophenol (Surr), 3 & 4 Methylphenol, 2-Methylphenol, 2,4-Dinitrotoluene, 1,4-Dichlorobenzene and Phenol-d5 (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202148/2).

Method 8270E_QQQ - TCLP: The surrogate recovery for the leachate blank associated with preparation batch 860-201494 and 860-202086 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-202088 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202604 recovered above the upper control limit for Pentachlorophenol and 2,4,6-Tribromophenol (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202604/2).

Method 8270E_QQQ - TCLP: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-202088 and analytical batch 860-202148 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Gardenville Composing Waste Facility (860-87586-4). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Martinez IV WWTP (860-87586-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E_QQQ - TCLP: The following sample was diluted due to the nature of the sample matrix: Martinez IV WWTP (860-87586-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: press cake. weighed to 5 grams

Saltillo WWTP (860-87586-1) and Martinez II WWTP (860-87586-2)

Method 8082A: sludge. weighed to 5 grams

Martinez IV WWTP (860-87586-3) and Gardenville Composing Waste Facility (860-87586-4)

Method 8082A: dark soil. weighed to 5 grams

Upper Martinez WWTP (860-87586-5)

Method 8082A: The following sample(s) required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: Lot#MKCS1129. Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B - TCLP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8321B_Herb - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Gardenville Composing Waste Facility (860-87586-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8321B_Herb - TCLP: The continuing calibration verification (CCV) associated with batch 860-201969 recovered above the upper control limit for 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 860-201969/9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - TCLP: The Leachate blank for preparation batch 860-201494 and 860-201752 and analytical batch 860-201945 contained Cadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez II WWTP

Lab Sample ID: 860-87586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.248		0.0500	0.00625	mg/L	1		6010D	TCLP
Nickel	0.00940	J	0.0500	0.00885	mg/L	1		6010D	TCLP
Zinc	0.445		0.150	0.0419	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez II WWTP

Date Collected: 11/20/24 08:03
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-2

Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0369	U	0.0500	0.0369	mg/L			11/26/24 11:38	50
1,2-Dichloroethane	0.0186	U	0.0500	0.0186	mg/L			11/26/24 11:38	50
2-Butanone (MEK)	0.414	U	2.50	0.414	mg/L			11/26/24 11:38	50
Benzene	0.0230	U	0.0500	0.0230	mg/L			11/26/24 11:38	50
Carbon tetrachloride	0.0448	U	0.250	0.0448	mg/L			11/26/24 11:38	50
Chlorobenzene	0.0228	U	0.0500	0.0228	mg/L			11/26/24 11:38	50
Chloroform	0.0232	U	0.0500	0.0232	mg/L			11/26/24 11:38	50
Tetrachloroethylene	0.0328	U	0.0500	0.0328	mg/L			11/26/24 11:38	50
Trichloroethylene	0.0750	U	0.250	0.0750	mg/L			11/26/24 11:38	50
Vinyl chloride	0.0214	U	0.100	0.0214	mg/L			11/26/24 11:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*		*11/26/24 11:38*	*50*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*11/26/24 11:38*	*50*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*11/26/24 11:38*	*50*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 11:38*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.55	U	11.4	1.55	ug/L		11/26/24 05:47	11/28/24 14:36	20
2,4,5-Trichlorophenol	2.85	U	11.4	2.85	ug/L		11/26/24 05:47	11/28/24 14:36	20
2,4,6-Trichlorophenol	4.59	U	11.4	4.59	ug/L		11/26/24 05:47	11/28/24 14:36	20
2,4-Dinitrotoluene	4.07	U	11.4	4.07	ug/L		11/26/24 05:47	11/28/24 14:36	20
2-Methylphenol	2.08	U	11.4	2.08	ug/L		11/26/24 05:47	11/28/24 14:36	20
3 & 4 Methylphenol	2.76	U	11.4	2.76	ug/L		11/26/24 05:47	11/28/24 14:36	20
Hexachlorobenzene	1.94	U	11.4	1.94	ug/L		11/26/24 05:47	11/28/24 14:36	20
Hexachlorobutadiene	2.04	U	11.4	2.04	ug/L		11/26/24 05:47	11/28/24 14:36	20
Hexachloroethane	2.03	U	11.4	2.03	ug/L		11/26/24 05:47	11/28/24 14:36	20
Nitrobenzene	1.46	U	11.4	1.46	ug/L		11/26/24 05:47	11/28/24 14:36	20
Pentachlorophenol	20.7	U	22.7	20.7	ug/L		11/26/24 05:47	11/28/24 14:36	20
Pyridine	28.6	U *1	56.8	28.6	ug/L		11/26/24 05:47	11/28/24 14:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*35 - 130*	*11/26/24 05:47*	*11/28/24 14:36*	*20*
2-Fluorobiphenyl (Surr)	*86*		*43 - 130*	*11/26/24 05:47*	*11/28/24 14:36*	*20*
2-Fluorophenol (Surr)	*77*		*19 - 120*	*11/26/24 05:47*	*11/28/24 14:36*	*20*
Nitrobenzene-d5 (Surr)	*97*		*37 - 133*	*11/26/24 05:47*	*11/28/24 14:36*	*20*
p-Terphenyl-d14 (Surr)	*52*		*47 - 130*	*11/26/24 05:47*	*11/28/24 14:36*	*20*
Phenol-d5 (Surr)	*89*	*I*	*8 - 124*	*11/26/24 05:47*	*11/28/24 14:36*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000196	U	0.00100	0.000196	mg/L		11/25/24 08:35	11/25/24 17:52	1
Endrin	0.0000167	U	0.0000502	0.0000167	mg/L		11/25/24 08:35	11/25/24 17:52	1
Heptachlor	0.0000175	U	0.0000502	0.0000175	mg/L		11/25/24 08:35	11/25/24 17:52	1
Heptachlor epoxide	0.0000183	U	0.0000502	0.0000183	mg/L		11/25/24 08:35	11/25/24 17:52	1
gamma-BHC (Lindane)	0.0000170	U	0.0000502	0.0000170	mg/L		11/25/24 08:35	11/25/24 17:52	1
Methoxychlor	0.0000187	U	0.0000502	0.0000187	mg/L		11/25/24 08:35	11/25/24 17:52	1
Toxaphene	0.000319	U	0.00100	0.000319	mg/L		11/25/24 08:35	11/25/24 17:52	1

Client Sample ID: Martinez II WWTP

Lab Sample ID: 860-87586-2

Date Collected: 11/20/24 08:03

Matrix: Solid

Date Received: 11/21/24 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*28*		*28 - 94*	*11/25/24 08:35*	*11/25/24 17:52*	*1*
Tetrachloro-m-xylene	*80*		*52 - 134*	*11/25/24 08:35*	*11/25/24 17:52*	*1*

Method: SW846 8321B - Herbicides (LC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 18:12	1
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*50 - 150*		*11/25/24 18:12*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:48	1
Barium	**0.248**		0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:48	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:48	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:48	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:48	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:48	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:48	1
Nickel	**0.00940**	**J**	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:48	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:48	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:48	1
Zinc	**0.445**		0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:48	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:35	1

Client Sample ID: Martinez II WWTP

Lab Sample ID: 860-87586-2

Date Collected: 11/20/24 08:03

Matrix: Solid

Date Received: 11/21/24 10:05

Percent Solids: 13.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.177	U	0.748	0.177	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1221	0.177	U	0.748	0.177	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1232	0.177	U	0.748	0.177	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1242	0.177	U	0.748	0.177	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1248	0.177	U	0.748	0.177	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1254	0.117	U	0.748	0.117	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
PCB-1260	0.117	U	0.748	0.117	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1
Polychlorinated biphenyls, Total	0.187	U	0.748	0.187	mg/Kg	☼	11/26/24 08:35	11/26/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 140*	*11/26/24 08:35*	*11/26/24 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 142*	*11/26/24 08:35*	*11/26/24 12:20*	*1*

Surrogate Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)				
860-87586-2	Martinez II WWTP	96	103	100	103				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)		
860-87586-2	Martinez II WWTP	102	86	77	97	52	89 I		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	TCX1						
Lab Sample ID	Client Sample ID	(28-94)	(52-134)						
860-87586-2	Martinez II WWTP	28	80						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(35-140)	(37-142)						
860-87586-2	Martinez II WWTP	86	96						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)								
		DCPAA								
Lab Sample ID	Client Sample ID	(50-150)								
860-87586-2	Martinez II WWTP	80								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-202024/10
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 07:26	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 07:26	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 07:26	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 07:26	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 07:26	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 07:26	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 07:26	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 07:26	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 07:26	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*11/26/24 07:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*11/26/24 07:26*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 07:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 07:26*	*1*

Lab Sample ID: LCS 860-202024/3
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04323		mg/L		86	50 - 150		
1,2-Dichloroethane			0.0500	0.04341		mg/L		87	72 - 130		
2-Butanone (MEK)			0.250	0.2494		mg/L		100	60 - 140		
Benzene			0.0500	0.04487		mg/L		90	75 - 125		
Carbon tetrachloride			0.0500	0.04880		mg/L		98	70 - 125		
Chlorobenzene			0.0500	0.04890		mg/L		98	82 - 135		
Chloroform			0.0500	0.04449		mg/L		89	70 - 121		
Tetrachloroethylene			0.0500	0.05053		mg/L		101	71 - 125		
Trichloroethylene			0.0500	0.06034		mg/L		121	75 - 135		
Vinyl chloride			0.0500	0.05627		mg/L		113	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04589		mg/L		92	50 - 150	6	25
1,2-Dichloroethane			0.0500	0.04793		mg/L		96	72 - 130	10	25
2-Butanone (MEK)			0.250	0.3170		mg/L		127	60 - 140	24	25
Benzene			0.0500	0.04898		mg/L		98	75 - 125	9	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			0.0500	0.04752		mg/L		95	70 - 125	3	25
Chlorobenzene			0.0500	0.04781		mg/L		96	82 - 135	2	25
Chloroform			0.0500	0.04851		mg/L		97	70 - 121	9	25
Tetrachloroethylene			0.0500	0.04982		mg/L		100	71 - 125	1	25
Trichloroethylene			0.0500	0.05607		mg/L		112	75 - 135	7	25
Vinyl chloride			0.0500	0.04822		mg/L		96	60 - 140	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 860-202193/8
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 19:01	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 19:01	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 19:01	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 19:01	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 19:01	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 19:01	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 19:01	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 19:01	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 19:01	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*11/26/24 19:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*11/26/24 19:01*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 19:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 19:01*	*1*

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene			0.0500	0.04853		mg/L		97	50 - 150
1,2-Dichloroethane			0.0500	0.04865		mg/L		97	72 - 130
2-Butanone (MEK)			0.250	0.2397		mg/L		96	60 - 140
Benzene			0.0500	0.05182		mg/L		104	75 - 125
Carbon tetrachloride			0.0500	0.06828	*+	mg/L		137	70 - 125
Chlorobenzene			0.0500	0.05025		mg/L		101	82 - 135
Chloroform			0.0500	0.05083		mg/L		102	70 - 121
Tetrachloroethylene			0.0500	0.05164		mg/L		103	71 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethylene			0.0500	0.05123		mg/L		102	75 - 135		
Vinyl chloride			0.0500	0.05517		mg/L		110	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-202193/4
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04822		mg/L		96	50 - 150	1	25
1,2-Dichloroethane			0.0500	0.04942		mg/L		99	72 - 130	2	25
2-Butanone (MEK)			0.250	0.2284		mg/L		91	60 - 140	5	25
Benzene			0.0500	0.05261		mg/L		105	75 - 125	2	25
Carbon tetrachloride			0.0500	0.06752	*+	mg/L		135	70 - 125	1	25
Chlorobenzene			0.0500	0.05112		mg/L		102	82 - 135	2	25
Chloroform			0.0500	0.05114		mg/L		102	70 - 121	1	25
Tetrachloroethylene			0.0500	0.05212		mg/L		104	71 - 125	1	25
Trichloroethylene			0.0500	0.05251		mg/L		105	75 - 135	2	25
Vinyl chloride			0.0500	0.05444		mg/L		109	60 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00369	U	0.00500	0.00369	mg/L			11/26/24 18:40	5
1,2-Dichloroethane	0.00186	U	0.00500	0.00186	mg/L			11/26/24 18:40	5
2-Butanone (MEK)	0.0414	U	0.250	0.0414	mg/L			11/26/24 18:40	5
Benzene	0.00230	U	0.00500	0.00230	mg/L			11/26/24 18:40	5
Carbon tetrachloride	0.00448	U	0.0250	0.00448	mg/L			11/26/24 18:40	5
Chlorobenzene	0.00228	U	0.00500	0.00228	mg/L			11/26/24 18:40	5
Chloroform	0.00232	U	0.00500	0.00232	mg/L			11/26/24 18:40	5
Tetrachloroethylene	0.00328	U	0.00500	0.00328	mg/L			11/26/24 18:40	5
Trichloroethylene	0.00750	U	0.0250	0.00750	mg/L			11/26/24 18:40	5
Vinyl chloride	0.00214	U	0.0100	0.00214	mg/L			11/26/24 18:40	5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*11/26/24 18:40*	*5*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*11/26/24 18:40*	*5*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*11/26/24 18:40*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 18:40*	*5*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-202086/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 15:27	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 15:27	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 15:27	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 15:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*136*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorobiphenyl (Surr)	*113*		*43 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorophenol (Surr)	*60*		*19 - 120*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*102*		*37 - 133*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
p-Terphenyl-d14 (Surr)	*106*		*47 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Phenol-d5 (Surr)	*47*		*8 - 124*	*11/26/24 05:28*	*11/26/24 15:27*	*1*

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:47	11/26/24 21:32	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:47	11/26/24 21:32	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:47	11/26/24 21:32	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:47	11/26/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:47	11/26/24 21:32	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:47	11/26/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*141*	*S1+*	*35 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorobiphenyl (Surr)	*116*		*43 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 120*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 133*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Phenol-d5 (Surr)	*42*		*8 - 124*	*11/26/24 05:47*	*11/26/24 21:32*	*1*

Lab Sample ID: LCS 860-202088/2-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	2.86	1.168		ug/L		41	28 - 130
2,4,5-Trichlorophenol	2.86	2.813		ug/L		98	35 - 130
2,4,6-Trichlorophenol	2.86	3.097		ug/L		108	52 - 129
2,4-Dinitrotoluene	2.86	3.376		ug/L		118	48 - 127
2-Methylphenol	2.86	2.829		ug/L		99	14 - 176
3 & 4 Methylphenol	2.86	2.390	I	ug/L		84	22 - 130
Hexachlorobenzene	2.86	3.562		ug/L		125	8 - 142
Hexachlorobutadiene	2.86	0.4983	J	ug/L		17	10 - 130
Hexachloroethane	2.86	0.4622	J	ug/L		16	10 - 130
Nitrobenzene	2.86	2.634		ug/L		92	54 - 130
Pentachlorophenol	2.86	2.649		ug/L		93	38 - 152
Pyridine	2.86	1.44	U	ug/L		12	1 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*115*		*43 - 130*
2-Fluorophenol (Surr)	*56*		*19 - 120*
Nitrobenzene-d5 (Surr)	*103*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*46*		*8 - 124*

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	2.86	1.184		ug/L		41	28 - 130	1	30
2,4,5-Trichlorophenol	2.86	3.086		ug/L		108	35 - 130	9	30
2,4,6-Trichlorophenol	2.86	3.232		ug/L		113	52 - 129	4	30
2,4-Dinitrotoluene	2.86	3.421		ug/L		120	48 - 127	1	30
2-Methylphenol	2.86	2.977		ug/L		104	14 - 176	5	30
3 & 4 Methylphenol	2.86	2.579	I	ug/L		90	22 - 130	8	30

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobenzene			2.86	3.492		ug/L		122	8 - 142	2	30
Hexachlorobutadiene			2.86	0.5458	J	ug/L		19	10 - 130	9	30
Hexachloroethane			2.86	0.5513	J	ug/L		19	10 - 130	18	30
Nitrobenzene			2.86	2.636		ug/L		92	54 - 130	0	30
Pentachlorophenol			2.86	2.878		ug/L		101	38 - 152	8	30
Pyridine			2.86	1.936	J *1	ug/L		68	1 - 126	142	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*142*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*121*		*43 - 130*
2-Fluorophenol (Surr)	*60*		*19 - 120*
Nitrobenzene-d5 (Surr)	*109*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*47*		*8 - 124*

Lab Sample ID: LB 860-201494/1-F
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 202086

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 20:00	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 20:00	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 20:00	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 20:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorobiphenyl (Surr)	*112*		*43 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorophenol (Surr)	*59*		*19 - 120*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Nitrobenzene-d5 (Surr)	*100*		*37 - 133*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Phenol-d5 (Surr)	*52*		*8 - 124*	*11/26/24 05:28*	*11/26/24 20:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-201826/1-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 11:42	1
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 11:42	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 11:42	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 11:42	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*28 - 94*	*11/25/24 08:35*	*11/25/24 11:42*	*1*
Tetrachloro-m-xylene	*106*		*52 - 134*	*11/25/24 08:35*	*11/25/24 11:42*	*1*

Lab Sample ID: LCS 860-201826/2-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.00125	0.001099		mg/L		88	55 - 102		
Heptachlor			0.00125	0.001240		mg/L		99	55 - 106		
Heptachlor epoxide			0.00125	0.001324		mg/L		106	56 - 109		
gamma-BHC (Lindane)			0.00125	0.001221		mg/L		98	59 - 107		
Methoxychlor			0.00125	0.0007952		mg/L		64	53 - 102		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*28 - 94*
Tetrachloro-m-xylene	*90*		*52 - 134*

Lab Sample ID: LCSD 860-201826/3-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.00125	0.001106		mg/L		89	55 - 102	1	25
Heptachlor			0.00125	0.001259		mg/L		101	55 - 106	1	25
Heptachlor epoxide			0.00125	0.001361		mg/L		109	56 - 109	3	25
gamma-BHC (Lindane)			0.00125	0.001251		mg/L		100	59 - 107	2	25
Methoxychlor			0.00125	0.0007886		mg/L		63	53 - 102	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 94*
Tetrachloro-m-xylene	*92*		*52 - 134*

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 13:11	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 13:11	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 13:11	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 13:11	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 13:11	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 94*	*11/25/24 08:35*	*11/25/24 13:11*	*1*
Tetrachloro-m-xylene	*114*		*52 - 134*	*11/25/24 08:35*	*11/25/24 13:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-202116/1-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1221	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1232	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1242	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1248	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1254	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1260	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
Polychlorinated biphenyls, Total	0.00417	U	0.0167	0.00417	mg/Kg		11/26/24 08:35	11/26/24 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 140*	*11/26/24 08:35*	*11/26/24 10:17*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*11/26/24 08:35*	*11/26/24 10:17*	*1*

Lab Sample ID: LCS 860-202116/2-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1754		mg/Kg		105	27 - 121		
PCB-1260			0.167	0.1783		mg/Kg		107	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-202116/3-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1721		mg/Kg		103	27 - 121	2	20
PCB-1260			0.167	0.1767		mg/Kg		106	27 - 139	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 142*

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 860-201969/21
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00120	U	0.00500	0.00120	mg/L			11/25/24 17:06	1
2,4-D	0.00108	U	0.00500	0.00108	mg/L			11/25/24 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*97*		*50 - 150*		*11/25/24 17:06*	*1*

Lab Sample ID: LCS 860-201969/16
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			0.0402	0.04903		mg/L		122	50 - 150		
2,4-D			0.0407	0.04587		mg/L		113	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*50 - 150*

Lab Sample ID: LCSD 860-201969/17
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			0.0402	0.04917		mg/L		122	50 - 150	0	30
2,4-D			0.0407	0.04648		mg/L		114	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*107*		*50 - 150*

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 17:28	1

Method: 8321B - Herbicides (LC/MS) (Continued)

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 17:28	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*50 - 150*		*11/25/24 17:28*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 860-201752/1-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00650	U	0.0100	0.00650	mg/L		11/24/24 13:06	11/25/24 11:28	1
Barium	0.00125	U	0.0100	0.00125	mg/L		11/24/24 13:06	11/25/24 11:28	1
Cadmium	0.000831	U	0.00500	0.000831	mg/L		11/24/24 13:06	11/25/24 11:28	1
Chromium	0.00216	U	0.0100	0.00216	mg/L		11/24/24 13:06	11/25/24 11:28	1
Copper	0.00388	U	0.0200	0.00388	mg/L		11/24/24 13:06	11/25/24 11:28	1
Lead	0.00368	U	0.0100	0.00368	mg/L		11/24/24 13:06	11/25/24 11:28	1
Molybdenum	0.00260	U	0.0100	0.00260	mg/L		11/24/24 13:06	11/25/24 11:28	1
Nickel	0.00177	U	0.0100	0.00177	mg/L		11/24/24 13:06	11/25/24 11:28	1
Selenium	0.00927	U	0.0300	0.00927	mg/L		11/24/24 13:06	11/25/24 11:28	1
Silver	0.00788	U	0.0200	0.00788	mg/L		11/24/24 13:06	11/25/24 11:28	1
Zinc	0.00837	U	0.0300	0.00837	mg/L		11/24/24 13:06	11/25/24 11:28	1

Lab Sample ID: LCS 860-201752/2-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.8920		mg/L		89	80 - 120
Barium	1.00	0.9050		mg/L		91	80 - 120
Cadmium	1.00	0.8750		mg/L		88	80 - 120
Chromium	1.00	0.9000		mg/L		90	80 - 120
Copper	1.00	0.8990		mg/L		90	80 - 120
Lead	1.00	0.9090		mg/L		91	80 - 120
Molybdenum	1.00	0.9100		mg/L		91	80 - 120
Nickel	1.00	0.8970		mg/L		90	80 - 120
Selenium	1.00	0.9260		mg/L		93	80 - 120
Silver	0.500	0.4580		mg/L		92	80 - 120
Zinc	1.00	0.9060		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	0.8860		mg/L		89	80 - 120	1	20
Barium	1.00	0.9060		mg/L		91	80 - 120	0	20
Cadmium	1.00	0.8750		mg/L		88	80 - 120	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			1.00	0.9010		mg/L		90	80 - 120	0	20
Copper			1.00	0.8980		mg/L		90	80 - 120	0	20
Lead			1.00	0.9100		mg/L		91	80 - 120	0	20
Molybdenum			1.00	0.9140		mg/L		91	80 - 120	0	20
Nickel			1.00	0.8980		mg/L		90	80 - 120	0	20
Selenium			1.00	0.9400		mg/L		94	80 - 120	2	20
Silver			0.500	0.4590		mg/L		92	80 - 120	0	20
Zinc			1.00	0.9070		mg/L		91	80 - 120	0	20

Lab Sample ID: LB 860-201494/1-B
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201752

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:33	1
Barium	0.00625	U	0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:33	1
Cadmium	0.005200	J	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:33	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:33	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:33	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:33	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:33	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:33	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:33	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:33	1
Zinc	0.0419	U	0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-201856/1-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:43	11/25/24 19:13	1

Lab Sample ID: LCS 860-201856/2-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00200	0.001979		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-201856/3-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00200	0.001949		mg/L		97	80 - 120	2	20

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 860-201494/1-E
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201856

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:17	1

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

GC/MS VOA

Leach Batch: 201619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	1311	

Analysis Batch: 202024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	8260D	201619

GC/MS Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	1311	

Prep Batch: 202088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	3511	201494

Analysis Batch: 202604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	8270E	202088

GC Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	1311	

Prep Batch: 201826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	3511	201494

Analysis Batch: 201840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	8081B	201826

Analysis Batch: 202114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	Total/NA	Solid	8082A	202116

Prep Batch: 202116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	Total/NA	Solid	3550C	

LCMS

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	1311	

Analysis Batch: 201969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	8321B	201494

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Metals

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	1311	

Prep Batch: 201752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	3010A	201494

Prep Batch: 201856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	7470A	201494

Analysis Batch: 201945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	6010D	201752

Analysis Batch: 202036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	TCLP	Solid	7470A	201856

General Chemistry

Analysis Batch: 202532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-2	Martinez II WWTP	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez II WWTP
Date Collected: 11/20/24 08:03
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.20 g	400 mL	201619	11/22/24 17:00	JCM	EET HOU
							Completed:	11/23/24 09:00 [1]		
TCLP	Analysis	8260D		50	5 mL	5 mL	202024	11/26/24 11:38	KLV	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			70.4 mL	4 mL	202088	11/26/24 05:47	DR	EET HOU
TCLP	Analysis	8270E		20	1 mL	1 mL	202604	11/28/24 14:36	PXS	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			49.8 mL	5 mL	201826	11/25/24 08:35	DR	EET HOU
TCLP	Analysis	8081B		1			201840	11/25/24 17:52	KM	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Analysis	8321B		1	0.2 mL	1 mL	201969	11/25/24 18:12	JBS	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	201752	11/24/24 13:07	PB	EET HOU
TCLP	Analysis	6010D		1			201945	11/25/24 11:48	JDM	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	7470A			50 mL	50 mL	201856	11/25/24 09:44	AGR	EET HOU
TCLP	Analysis	7470A		1			202036	11/25/24 19:35	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			202532	11/27/24 10:52	JC	EET HOU

Client Sample ID: Martinez II WWTP
Date Collected: 11/20/24 08:03
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-2
Matrix: Solid
Percent Solids: 13.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			5.03 g	5 mL	202116	11/26/24 08:35	BH	EET HOU
Total/NA	Analysis	8082A		1			202114	11/26/24 12:20	KM	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Method Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8321B	Herbicides (LC/MS)	SW846	EET HOU
6010D	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-87586-2	Martinez II WWTP	Solid	11/20/24 08:03	11/21/24 10:05

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

San Antonio #239

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Client Information	Sampler: Ernest Munoz	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 840-4104-595.1
Client Contact: Ernest Munoz	Phone: (201) 773 336	E-Mail: Lindy.Maingot@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: San Antonio River Authority	PWSID:			Job #:
Address: 100 E. Guenther	Due Date Requested:			
City: San Antonio	TAT Requested (days):			
State, Zip: TX, 78204	Compliance Project: Δ Yes Δ No			
Phone: 210-373-1336(Tel)	PO #: Purchase Order Requested			
Email: emunoz@sariverauthority.org	WO #:			
Project Name: Annual TCLP Sampling	Project #: 84000389			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wewater, S=solid, Dwwaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7470A TCLP Metals + Cu,Mo,Ni and Zn, 8081B TCLP OC Pesticides, 8260D TCLP Volatiles	8082A Total PCBs, 8270E_QQQ TCLP Semi-Volatiles, 8321B TCLP Herbicides, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Salitillo WWTP	2 2	0 3AM	G	Solid			X	X		
Martinez II WWTP	10 2	8 05AM	G	Solid			X	X		
Martinez IV WWTP	24	9 24AM	C	Solid			X	X		
Gardenville Composting Waste Facility	20 4	45AM	G	Solid			X	X		
Upper Martinez WWTP	2 24	0PM	C	~~Solid~~			X	X		

Temp 2 4 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2.3

Temp: 2 6 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 5

Temp: 2 3 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2 2

860-87586 Chain of Custody

Preservation Codes: N None ... Other

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		20 24			11 20 24 2 15PM	
2	Relinquished by:	Date/Time: 11 20 24	Company	Received by: Fed x	Date/Time: 11 20 24 16 00	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/21/24 1005	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.3 CIF 1.8 Iesc001 +0.5

Ver 05/06/2024

12/4/2024 (Rev. 2)

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 860-87586-1

Login Number: 87586
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ernest Munoz
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Generated 12/4/2024 8:50:45 AM Revision 3

JOB DESCRIPTION

Martinez IV WWTP

JOB NUMBER

860-87586-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/4/2024 8:50:45 AM
Revision 3

Authorized for release by
Lindy Maingot, Project Manager II
Lindy.Maingot@et.eurofinsus.com
(210)344-9751

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Definitions/Glossary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 860-87586-1 — Eurofins Houston

Job Narrative
860-87586-1

Revised Report
Each sample was put on a different report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/21/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.3°C and 2.5°C.

GC/MS VOA
Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202024 recovered above the upper control limit for 2-Butanone (23.3%) and Vinyl chloride (20.8%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202024/2).

Method 8260D - TCLP: The continuing calibration verification (CCV) associated with batch 860-202193 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202193/2).

Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-202193 recovered outside control limits for the following analytes: Carbon tetrachloride These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202148 recovered above the upper control limit for 2,4,6-Tribromophenol (Surr), 3 & 4 Methylphenol, 2-Methylphenol, 2,4-Dinitrotoluene, 1,4-Dichlorobenzene and Phenol-d5 (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202148/2).

Method 8270E_QQQ - TCLP: The surrogate recovery for the leachate blank associated with preparation batch 860-201494 and 860-202086 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-202088 and analytical batch 860-202148 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-202604 recovered above the upper control limit for Pentachlorophenol and 2,4,6-Tribromophenol (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-202604/2).

Method 8270E_QQQ - TCLP: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-202088 and analytical batch 860-202148 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Gardenville Composing Waste Facility (860-87586-4). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Martinez IV WWTP (860-87586-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E_QQQ - TCLP: The following sample was diluted due to the nature of the sample matrix: Martinez IV WWTP (860-87586-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: press cake. weighed to 5 grams

Saltillo WWTP (860-87586-1) and Martinez II WWTP (860-87586-2)

Method 8082A: sludge. weighed to 5 grams

Martinez IV WWTP (860-87586-3) and Gardenville Composing Waste Facility (860-87586-4)

Method 8082A: dark soil. weighed to 5 grams

Upper Martinez WWTP (860-87586-5)

Method 8082A: The following sample(s) required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: Lot#MKCS1129. Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B - TCLP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: Gardenville Composing Waste Facility (860-87586-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8321B_Herb - TCLP: Surrogate recovery for the following sample was outside the upper control limit: Gardenville Composing Waste Facility (860-87586-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8321B_Herb - TCLP: The continuing calibration verification (CCV) associated with batch 860-201969 recovered above the upper control limit for 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 860-201969/9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - TCLP: The Leachate blank for preparation batch 860-201494 and 860-201752 and analytical batch 860-201945 contained Cadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez IV WWTP

Lab Sample ID: 860-87586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorodane	0.000590	J	0.000998	0.000195	mg/L	1		8081B	TCLP
Heptachlor	0.0000608		0.0000499	0.0000174	mg/L	1		8081B	TCLP
Barium	0.125		0.0500	0.00625	mg/L	1		6010D	TCLP
Cadmium	0.00472	J B	0.0250	0.00416	mg/L	1		6010D	TCLP
Zinc	0.735		0.150	0.0419	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez IV WWTP

Date Collected: 11/20/24 09:12
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-3
Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0369	U	0.0500	0.0369	mg/L			11/26/24 21:04	50
1,2-Dichloroethane	0.0186	U	0.0500	0.0186	mg/L			11/26/24 21:04	50
2-Butanone (MEK)	0.414	U	2.50	0.414	mg/L			11/26/24 21:04	50
Benzene	0.0230	U	0.0500	0.0230	mg/L			11/26/24 21:04	50
Carbon tetrachloride	0.0448	U *+	0.250	0.0448	mg/L			11/26/24 21:04	50
Chlorobenzene	0.0228	U	0.0500	0.0228	mg/L			11/26/24 21:04	50
Chloroform	0.0232	U	0.0500	0.0232	mg/L			11/26/24 21:04	50
Tetrachloroethylene	0.0328	U	0.0500	0.0328	mg/L			11/26/24 21:04	50
Trichloroethylene	0.0750	U	0.250	0.0750	mg/L			11/26/24 21:04	50
Vinyl chloride	0.0214	U	0.100	0.0214	mg/L			11/26/24 21:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*11/26/24 21:04*	*50*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*11/26/24 21:04*	*50*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 21:04*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/26/24 21:04*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	2.36	U	17.3	2.36	ug/L		11/26/24 05:47	11/28/24 15:04	30
2,4,5-Trichlorophenol	4.33	U	17.3	4.33	ug/L		11/26/24 05:47	11/28/24 15:04	30
2,4,6-Trichlorophenol	6.98	U	17.3	6.98	ug/L		11/26/24 05:47	11/28/24 15:04	30
2,4-Dinitrotoluene	6.19	U	17.3	6.19	ug/L		11/26/24 05:47	11/28/24 15:04	30
2-Methylphenol	3.17	U	17.3	3.17	ug/L		11/26/24 05:47	11/28/24 15:04	30
3 & 4 Methylphenol	4.20	U	17.3	4.20	ug/L		11/26/24 05:47	11/28/24 15:04	30
Hexachlorobenzene	2.95	U	17.3	2.95	ug/L		11/26/24 05:47	11/28/24 15:04	30
Hexachlorobutadiene	3.11	U	17.3	3.11	ug/L		11/26/24 05:47	11/28/24 15:04	30
Hexachloroethane	3.08	U	17.3	3.08	ug/L		11/26/24 05:47	11/28/24 15:04	30
Nitrobenzene	2.23	U	17.3	2.23	ug/L		11/26/24 05:47	11/28/24 15:04	30
Pentachlorophenol	31.4	U	34.6	31.4	ug/L		11/26/24 05:47	11/28/24 15:04	30
Pyridine	43.5	U *1	86.5	43.5	ug/L		11/26/24 05:47	11/28/24 15:04	30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*134*	*S1+*	*35 - 130*	*11/26/24 05:47*	*11/28/24 15:04*	*30*
2-Fluorobiphenyl (Surr)	*154*	*S1+*	*43 - 130*	*11/26/24 05:47*	*11/28/24 15:04*	*30*
2-Fluorophenol (Surr)	*99*		*19 - 120*	*11/26/24 05:47*	*11/28/24 15:04*	*30*
Nitrobenzene-d5 (Surr)	*165*	*S1+*	*37 - 133*	*11/26/24 05:47*	*11/28/24 15:04*	*30*
p-Terphenyl-d14 (Surr)	*124*		*47 - 130*	*11/26/24 05:47*	*11/28/24 15:04*	*30*
Phenol-d5 (Surr)	*100*	*I*	*8 - 124*	*11/26/24 05:47*	*11/28/24 15:04*	*30*

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	**0.000590**	**J**	0.000998	0.000195	mg/L		11/25/24 08:35	11/25/24 18:03	1
Endrin	0.0000166	U	0.0000499	0.0000166	mg/L		11/25/24 08:35	11/25/24 18:03	1
Heptachlor	**0.0000608**		0.0000499	0.0000174	mg/L		11/25/24 08:35	11/25/24 18:03	1
Heptachlor epoxide	0.0000181	U	0.0000499	0.0000181	mg/L		11/25/24 08:35	11/25/24 18:03	1
gamma-BHC (Lindane)	0.0000169	U	0.0000499	0.0000169	mg/L		11/25/24 08:35	11/25/24 18:03	1
Methoxychlor	0.0000186	U	0.0000499	0.0000186	mg/L		11/25/24 08:35	11/25/24 18:03	1
Toxaphene	0.000317	U	0.000998	0.000317	mg/L		11/25/24 08:35	11/25/24 18:03	1

Client Sample ID: Martinez IV WWTP

Lab Sample ID: 860-87586-3

Date Collected: 11/20/24 09:12

Matrix: Solid

Date Received: 11/21/24 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*28 - 94*	*11/25/24 08:35*	*11/25/24 18:03*	*1*
Tetrachloro-m-xylene	*99*		*52 - 134*	*11/25/24 08:35*	*11/25/24 18:03*	*1*

Method: SW846 8321B - Herbicides (LC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 18:19	1
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*84*		*50 - 150*		*11/25/24 18:19*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:50	1
Barium	**0.125**		0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:50	1
Cadmium	**0.00472**	**J B**	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:50	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:50	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:50	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:50	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:50	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:50	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:50	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:50	1
Zinc	**0.735**		0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:50	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:39	1

Client Sample ID: Martinez IV WWTP

Lab Sample ID: 860-87586-3

Date Collected: 11/20/24 09:12

Matrix: Solid

Date Received: 11/21/24 10:05

Percent Solids: 4.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.495	U	2.09	0.495	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1221	0.495	U	2.09	0.495	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1232	0.495	U	2.09	0.495	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1242	0.495	U	2.09	0.495	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1248	0.495	U	2.09	0.495	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1254	0.326	U	2.09	0.326	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
PCB-1260	0.326	U	2.09	0.326	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1
Polychlorinated biphenyls, Total	0.522	U	2.09	0.522	mg/Kg	☼	11/26/24 08:35	11/26/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 140*	*11/26/24 08:35*	*11/26/24 12:32*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 142*	*11/26/24 08:35*	*11/26/24 12:32*	*1*

Surrogate Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)				
860-87586-3	Martinez IV WWTP	104	100	104	100				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)		
860-87586-3	Martinez IV WWTP	134 S1+	154 S1+	99	165 S1+	124	100 I		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	TCX1						
Lab Sample ID	Client Sample ID	(28-94)	(52-134)						
860-87586-3	Martinez IV WWTP	65	99						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(35-140)	(37-142)						
860-87586-3	Martinez IV WWTP	87	99						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)								
		DCPAA								
Lab Sample ID	Client Sample ID	(50-150)								
860-87586-3	Martinez IV WWTP	84								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-202024/10
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 07:26	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 07:26	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 07:26	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 07:26	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 07:26	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 07:26	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 07:26	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 07:26	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 07:26	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*11/26/24 07:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*11/26/24 07:26*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 07:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/24 07:26*	*1*

Lab Sample ID: LCS 860-202024/3
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04323		mg/L		86	50 - 150		
1,2-Dichloroethane			0.0500	0.04341		mg/L		87	72 - 130		
2-Butanone (MEK)			0.250	0.2494		mg/L		100	60 - 140		
Benzene			0.0500	0.04487		mg/L		90	75 - 125		
Carbon tetrachloride			0.0500	0.04880		mg/L		98	70 - 125		
Chlorobenzene			0.0500	0.04890		mg/L		98	82 - 135		
Chloroform			0.0500	0.04449		mg/L		89	70 - 121		
Tetrachloroethylene			0.0500	0.05053		mg/L		101	71 - 125		
Trichloroethylene			0.0500	0.06034		mg/L		121	75 - 135		
Vinyl chloride			0.0500	0.05627		mg/L		113	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04589		mg/L		92	50 - 150	6	25
1,2-Dichloroethane			0.0500	0.04793		mg/L		96	72 - 130	10	25
2-Butanone (MEK)			0.250	0.3170		mg/L		127	60 - 140	24	25
Benzene			0.0500	0.04898		mg/L		98	75 - 125	9	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-202024/4
Matrix: Solid
Analysis Batch: 202024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			0.0500	0.04752		mg/L		95	70 - 125	3	25
Chlorobenzene			0.0500	0.04781		mg/L		96	82 - 135	2	25
Chloroform			0.0500	0.04851		mg/L		97	70 - 121	9	25
Tetrachloroethylene			0.0500	0.04982		mg/L		100	71 - 125	1	25
Trichloroethylene			0.0500	0.05607		mg/L		112	75 - 135	7	25
Vinyl chloride			0.0500	0.04822		mg/L		96	60 - 140	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 860-202193/8
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			11/26/24 19:01	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			11/26/24 19:01	1
2-Butanone (MEK)	0.00828	U	0.0500	0.00828	mg/L			11/26/24 19:01	1
Benzene	0.000460	U	0.00100	0.000460	mg/L			11/26/24 19:01	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			11/26/24 19:01	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			11/26/24 19:01	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			11/26/24 19:01	1
Tetrachloroethylene	0.000655	U	0.00100	0.000655	mg/L			11/26/24 19:01	1
Trichloroethylene	0.00150	U	0.00500	0.00150	mg/L			11/26/24 19:01	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			11/26/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*11/26/24 19:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*11/26/24 19:01*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*11/26/24 19:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 19:01*	*1*

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene			0.0500	0.04853		mg/L		97	50 - 150
1,2-Dichloroethane			0.0500	0.04865		mg/L		97	72 - 130
2-Butanone (MEK)			0.250	0.2397		mg/L		96	60 - 140
Benzene			0.0500	0.05182		mg/L		104	75 - 125
Carbon tetrachloride			0.0500	0.06828	*+	mg/L		137	70 - 125
Chlorobenzene			0.0500	0.05025		mg/L		101	82 - 135
Chloroform			0.0500	0.05083		mg/L		102	70 - 121
Tetrachloroethylene			0.0500	0.05164		mg/L		103	71 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-202193/3
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethylene			0.0500	0.05123		mg/L		102	75 - 135		
Vinyl chloride			0.0500	0.05517		mg/L		110	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-202193/4
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			0.0500	0.04822		mg/L		96	50 - 150	1	25
1,2-Dichloroethane			0.0500	0.04942		mg/L		99	72 - 130	2	25
2-Butanone (MEK)			0.250	0.2284		mg/L		91	60 - 140	5	25
Benzene			0.0500	0.05261		mg/L		105	75 - 125	2	25
Carbon tetrachloride			0.0500	0.06752	*+	mg/L		135	70 - 125	1	25
Chlorobenzene			0.0500	0.05112		mg/L		102	82 - 135	2	25
Chloroform			0.0500	0.05114		mg/L		102	70 - 121	1	25
Tetrachloroethylene			0.0500	0.05212		mg/L		104	71 - 125	1	25
Trichloroethylene			0.0500	0.05251		mg/L		105	75 - 135	2	25
Vinyl chloride			0.0500	0.05444		mg/L		109	60 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00369	U	0.00500	0.00369	mg/L			11/26/24 18:40	5
1,2-Dichloroethane	0.00186	U	0.00500	0.00186	mg/L			11/26/24 18:40	5
2-Butanone (MEK)	0.0414	U	0.250	0.0414	mg/L			11/26/24 18:40	5
Benzene	0.00230	U	0.00500	0.00230	mg/L			11/26/24 18:40	5
Carbon tetrachloride	0.00448	U	0.0250	0.00448	mg/L			11/26/24 18:40	5
Chlorobenzene	0.00228	U	0.00500	0.00228	mg/L			11/26/24 18:40	5
Chloroform	0.00232	U	0.00500	0.00232	mg/L			11/26/24 18:40	5
Tetrachloroethylene	0.00328	U	0.00500	0.00328	mg/L			11/26/24 18:40	5
Trichloroethylene	0.00750	U	0.0250	0.00750	mg/L			11/26/24 18:40	5
Vinyl chloride	0.00214	U	0.0100	0.00214	mg/L			11/26/24 18:40	5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 860-201728/1-A
Matrix: Solid
Analysis Batch: 202193

Client Sample ID: Method Blank
Prep Type: TCLP

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*11/26/24 18:40*	*5*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*11/26/24 18:40*	*5*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*11/26/24 18:40*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/26/24 18:40*	*5*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-202086/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 15:27	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 15:27	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 15:27	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 15:27	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 15:27	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 15:27	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 15:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*136*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorobiphenyl (Surr)	*113*		*43 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
2-Fluorophenol (Surr)	*60*		*19 - 120*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*102*		*37 - 133*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
p-Terphenyl-d14 (Surr)	*106*		*47 - 130*	*11/26/24 05:28*	*11/26/24 15:27*	*1*
Phenol-d5 (Surr)	*47*		*8 - 124*	*11/26/24 05:28*	*11/26/24 15:27*	*1*

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:47	11/26/24 21:32	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:47	11/26/24 21:32	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:47	11/26/24 21:32	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:47	11/26/24 21:32	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:47	11/26/24 21:32	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:47	11/26/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-202088/1-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:47	11/26/24 21:32	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:47	11/26/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*141*	*S1+*	*35 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorobiphenyl (Surr)	*116*		*43 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
2-Fluorophenol (Surr)	*55*		*19 - 120*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 133*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*11/26/24 05:47*	*11/26/24 21:32*	*1*
Phenol-d5 (Surr)	*42*		*8 - 124*	*11/26/24 05:47*	*11/26/24 21:32*	*1*

Lab Sample ID: LCS 860-202088/2-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	2.86	1.168		ug/L		41	28 - 130
2,4,5-Trichlorophenol	2.86	2.813		ug/L		98	35 - 130
2,4,6-Trichlorophenol	2.86	3.097		ug/L		108	52 - 129
2,4-Dinitrotoluene	2.86	3.376		ug/L		118	48 - 127
2-Methylphenol	2.86	2.829		ug/L		99	14 - 176
3 & 4 Methylphenol	2.86	2.390	I	ug/L		84	22 - 130
Hexachlorobenzene	2.86	3.562		ug/L		125	8 - 142
Hexachlorobutadiene	2.86	0.4983	J	ug/L		17	10 - 130
Hexachloroethane	2.86	0.4622	J	ug/L		16	10 - 130
Nitrobenzene	2.86	2.634		ug/L		92	54 - 130
Pentachlorophenol	2.86	2.649		ug/L		93	38 - 152
Pyridine	2.86	1.44	U	ug/L		12	1 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*115*		*43 - 130*
2-Fluorophenol (Surr)	*56*		*19 - 120*
Nitrobenzene-d5 (Surr)	*103*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*46*		*8 - 124*

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	2.86	1.184		ug/L		41	28 - 130	1	30
2,4,5-Trichlorophenol	2.86	3.086		ug/L		108	35 - 130	9	30
2,4,6-Trichlorophenol	2.86	3.232		ug/L		113	52 - 129	4	30
2,4-Dinitrotoluene	2.86	3.421		ug/L		120	48 - 127	1	30
2-Methylphenol	2.86	2.977		ug/L		104	14 - 176	5	30
3 & 4 Methylphenol	2.86	2.579	I	ug/L		90	22 - 130	8	30

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-202088/3-A
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobenzene			2.86	3.492		ug/L		122	8 - 142	2	30
Hexachlorobutadiene			2.86	0.5458	J	ug/L		19	10 - 130	9	30
Hexachloroethane			2.86	0.5513	J	ug/L		19	10 - 130	18	30
Nitrobenzene			2.86	2.636		ug/L		92	54 - 130	0	30
Pentachlorophenol			2.86	2.878		ug/L		101	38 - 152	8	30
Pyridine			2.86	1.936	J *1	ug/L		68	1 - 126	142	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*142*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*121*		*43 - 130*
2-Fluorophenol (Surr)	*60*		*19 - 120*
Nitrobenzene-d5 (Surr)	*109*		*37 - 133*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*
Phenol-d5 (Surr)	*47*		*8 - 124*

Lab Sample ID: LB 860-201494/1-F
Matrix: Solid
Analysis Batch: 202148

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 202086

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0779	U	0.571	0.0779	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,5-Trichlorophenol	0.143	U	0.571	0.143	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4,6-Trichlorophenol	0.231	U	0.571	0.231	ug/L		11/26/24 05:28	11/26/24 20:00	1
2,4-Dinitrotoluene	0.205	U	0.571	0.205	ug/L		11/26/24 05:28	11/26/24 20:00	1
2-Methylphenol	0.105	U	0.571	0.105	ug/L		11/26/24 05:28	11/26/24 20:00	1
3 & 4 Methylphenol	0.139	U	0.571	0.139	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobenzene	0.0975	U	0.571	0.0975	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachlorobutadiene	0.103	U	0.571	0.103	ug/L		11/26/24 05:28	11/26/24 20:00	1
Hexachloroethane	0.102	U	0.571	0.102	ug/L		11/26/24 05:28	11/26/24 20:00	1
Nitrobenzene	0.0736	U	0.571	0.0736	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pentachlorophenol	1.04	U	1.14	1.04	ug/L		11/26/24 05:28	11/26/24 20:00	1
Pyridine	1.44	U	2.86	1.44	ug/L		11/26/24 05:28	11/26/24 20:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*143*	*S1+*	*35 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorobiphenyl (Surr)	*112*		*43 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
2-Fluorophenol (Surr)	*59*		*19 - 120*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Nitrobenzene-d5 (Surr)	*100*		*37 - 133*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
p-Terphenyl-d14 (Surr)	*100*		*47 - 130*	*11/26/24 05:28*	*11/26/24 20:00*	*1*
Phenol-d5 (Surr)	*52*		*8 - 124*	*11/26/24 05:28*	*11/26/24 20:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-201826/1-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 11:42	1
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 11:42	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 11:42	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 11:42	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 11:42	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*28 - 94*	*11/25/24 08:35*	*11/25/24 11:42*	*1*
Tetrachloro-m-xylene	*106*		*52 - 134*	*11/25/24 08:35*	*11/25/24 11:42*	*1*

Lab Sample ID: LCS 860-201826/2-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.00125	0.001099		mg/L		88	55 - 102		
Heptachlor			0.00125	0.001240		mg/L		99	55 - 106		
Heptachlor epoxide			0.00125	0.001324		mg/L		106	56 - 109		
gamma-BHC (Lindane)			0.00125	0.001221		mg/L		98	59 - 107		
Methoxychlor			0.00125	0.0007952		mg/L		64	53 - 102		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*28 - 94*
Tetrachloro-m-xylene	*90*		*52 - 134*

Lab Sample ID: LCSD 860-201826/3-A
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.00125	0.001106		mg/L		89	55 - 102	1	25
Heptachlor			0.00125	0.001259		mg/L		101	55 - 106	1	25
Heptachlor epoxide			0.00125	0.001361		mg/L		109	56 - 109	3	25
gamma-BHC (Lindane)			0.00125	0.001251		mg/L		100	59 - 107	2	25
Methoxychlor			0.00125	0.0007886		mg/L		63	53 - 102	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 94*
Tetrachloro-m-xylene	*92*		*52 - 134*

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		11/25/24 08:35	11/25/24 13:11	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-201494/1-D
Matrix: Solid
Analysis Batch: 201840

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201826

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		11/25/24 08:35	11/25/24 13:11	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		11/25/24 08:35	11/25/24 13:11	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		11/25/24 08:35	11/25/24 13:11	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		11/25/24 08:35	11/25/24 13:11	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		11/25/24 08:35	11/25/24 13:11	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 94*	*11/25/24 08:35*	*11/25/24 13:11*	*1*
Tetrachloro-m-xylene	*114*		*52 - 134*	*11/25/24 08:35*	*11/25/24 13:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-202116/1-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1221	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1232	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1242	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1248	0.00395	U	0.0167	0.00395	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1254	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
PCB-1260	0.00261	U	0.0167	0.00261	mg/Kg		11/26/24 08:35	11/26/24 10:17	1
Polychlorinated biphenyls, Total	0.00417	U	0.0167	0.00417	mg/Kg		11/26/24 08:35	11/26/24 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 140*	*11/26/24 08:35*	*11/26/24 10:17*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*11/26/24 08:35*	*11/26/24 10:17*	*1*

Lab Sample ID: LCS 860-202116/2-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1754		mg/Kg		105	27 - 121		
PCB-1260			0.167	0.1783		mg/Kg		107	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-202116/3-A
Matrix: Solid
Analysis Batch: 202114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1721		mg/Kg		103	27 - 121	2	20
PCB-1260			0.167	0.1767		mg/Kg		106	27 - 139	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 142*

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 860-201969/21
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00120	U	0.00500	0.00120	mg/L			11/25/24 17:06	1
2,4-D	0.00108	U	0.00500	0.00108	mg/L			11/25/24 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*97*		*50 - 150*		*11/25/24 17:06*	*1*

Lab Sample ID: LCS 860-201969/16
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP (Silvex)			0.0402	0.04903		mg/L		122	50 - 150		
2,4-D			0.0407	0.04587		mg/L		113	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*50 - 150*

Lab Sample ID: LCSD 860-201969/17
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			0.0402	0.04917		mg/L		122	50 - 150	0	30
2,4-D			0.0407	0.04648		mg/L		114	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*107*		*50 - 150*

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.00300	U	0.0125	0.00300	mg/L			11/25/24 17:28	1

Method: 8321B - Herbicides (LC/MS) (Continued)

Lab Sample ID: LB 860-201494/1-A
Matrix: Solid
Analysis Batch: 201969

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.00270	U	0.0125	0.00270	mg/L			11/25/24 17:28	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*50 - 150*		*11/25/24 17:28*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 860-201752/1-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00650	U	0.0100	0.00650	mg/L		11/24/24 13:06	11/25/24 11:28	1
Barium	0.00125	U	0.0100	0.00125	mg/L		11/24/24 13:06	11/25/24 11:28	1
Cadmium	0.000831	U	0.00500	0.000831	mg/L		11/24/24 13:06	11/25/24 11:28	1
Chromium	0.00216	U	0.0100	0.00216	mg/L		11/24/24 13:06	11/25/24 11:28	1
Copper	0.00388	U	0.0200	0.00388	mg/L		11/24/24 13:06	11/25/24 11:28	1
Lead	0.00368	U	0.0100	0.00368	mg/L		11/24/24 13:06	11/25/24 11:28	1
Molybdenum	0.00260	U	0.0100	0.00260	mg/L		11/24/24 13:06	11/25/24 11:28	1
Nickel	0.00177	U	0.0100	0.00177	mg/L		11/24/24 13:06	11/25/24 11:28	1
Selenium	0.00927	U	0.0300	0.00927	mg/L		11/24/24 13:06	11/25/24 11:28	1
Silver	0.00788	U	0.0200	0.00788	mg/L		11/24/24 13:06	11/25/24 11:28	1
Zinc	0.00837	U	0.0300	0.00837	mg/L		11/24/24 13:06	11/25/24 11:28	1

Lab Sample ID: LCS 860-201752/2-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.8920		mg/L		89	80 - 120
Barium	1.00	0.9050		mg/L		91	80 - 120
Cadmium	1.00	0.8750		mg/L		88	80 - 120
Chromium	1.00	0.9000		mg/L		90	80 - 120
Copper	1.00	0.8990		mg/L		90	80 - 120
Lead	1.00	0.9090		mg/L		91	80 - 120
Molybdenum	1.00	0.9100		mg/L		91	80 - 120
Nickel	1.00	0.8970		mg/L		90	80 - 120
Selenium	1.00	0.9260		mg/L		93	80 - 120
Silver	0.500	0.4580		mg/L		92	80 - 120
Zinc	1.00	0.9060		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	0.8860		mg/L		89	80 - 120	1	20
Barium	1.00	0.9060		mg/L		91	80 - 120	0	20
Cadmium	1.00	0.8750		mg/L		88	80 - 120	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-201752/3-A
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201752

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			1.00	0.9010		mg/L		90	80 - 120	0	20
Copper			1.00	0.8980		mg/L		90	80 - 120	0	20
Lead			1.00	0.9100		mg/L		91	80 - 120	0	20
Molybdenum			1.00	0.9140		mg/L		91	80 - 120	0	20
Nickel			1.00	0.8980		mg/L		90	80 - 120	0	20
Selenium			1.00	0.9400		mg/L		94	80 - 120	2	20
Silver			0.500	0.4590		mg/L		92	80 - 120	0	20
Zinc			1.00	0.9070		mg/L		91	80 - 120	0	20

Lab Sample ID: LB 860-201494/1-B
Matrix: Solid
Analysis Batch: 201945

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201752

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		11/24/24 13:07	11/25/24 11:33	1
Barium	0.00625	U	0.0500	0.00625	mg/L		11/24/24 13:07	11/25/24 11:33	1
Cadmium	0.005200	J	0.0250	0.00416	mg/L		11/24/24 13:07	11/25/24 11:33	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		11/24/24 13:07	11/25/24 11:33	1
Copper	0.0194	U	0.100	0.0194	mg/L		11/24/24 13:07	11/25/24 11:33	1
Lead	0.0184	U	0.0500	0.0184	mg/L		11/24/24 13:07	11/25/24 11:33	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		11/24/24 13:07	11/25/24 11:33	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		11/24/24 13:07	11/25/24 11:33	1
Selenium	0.0464	U	0.150	0.0464	mg/L		11/24/24 13:07	11/25/24 11:33	1
Silver	0.0394	U	0.100	0.0394	mg/L		11/24/24 13:07	11/25/24 11:33	1
Zinc	0.0419	U	0.150	0.0419	mg/L		11/24/24 13:07	11/25/24 11:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-201856/1-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:43	11/25/24 19:13	1

Lab Sample ID: LCS 860-201856/2-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00200	0.001979		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-201856/3-A
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 201856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00200	0.001949		mg/L		97	80 - 120	2	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 860-201494/1-E
Matrix: Solid
Analysis Batch: 202036

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 201856

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		11/25/24 09:44	11/25/24 19:17	1

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

GC/MS VOA

Leach Batch: 201619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	1311	

Analysis Batch: 202193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	8260D	201619

GC/MS Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	1311	

Prep Batch: 202088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	3511	201494

Analysis Batch: 202604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	8270E	202088

GC Semi VOA

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	1311	

Prep Batch: 201826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	3511	201494

Analysis Batch: 201840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	8081B	201826

Analysis Batch: 202114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	Total/NA	Solid	8082A	202116

Prep Batch: 202116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	Total/NA	Solid	3550C	

LCMS

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	1311	

Analysis Batch: 201969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	8321B	201494

QC Association Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Metals

Leach Batch: 201494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	1311	

Prep Batch: 201752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	3010A	201494

Prep Batch: 201856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	7470A	201494

Analysis Batch: 201945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	6010D	201752

Analysis Batch: 202036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	TCLP	Solid	7470A	201856

General Chemistry

Analysis Batch: 202532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-87586-3	Martinez IV WWTP	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Client Sample ID: Martinez IV WWTP
Date Collected: 11/20/24 09:12
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.20 g	400 mL	201619	11/22/24 17:00	JCM	EET HOU
							Completed:	11/23/24 09:00 [1]		
TCLP	Analysis	8260D		50	5 mL	5 mL	202193	11/26/24 21:04	A1S	EET HOU
TCLP	Leach	1311			100.10 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			69.4 mL	4 mL	202088	11/26/24 05:47	DR	EET HOU
TCLP	Analysis	8270E		30	1 mL	1 mL	202604	11/28/24 15:04	PXS	EET HOU
TCLP	Leach	1311			100.10 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3511			50.1 mL	5 mL	201826	11/25/24 08:35	DR	EET HOU
TCLP	Analysis	8081B		1			201840	11/25/24 18:03	KM	EET HOU
TCLP	Leach	1311			100.10 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Analysis	8321B		1	0.2 mL	1 mL	201969	11/25/24 18:19	JBS	EET HOU
TCLP	Leach	1311			100.10 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	201752	11/24/24 13:07	PB	EET HOU
TCLP	Analysis	6010D		1			201945	11/25/24 11:50	JDM	EET HOU
TCLP	Leach	1311			100.10 g	2000 mL	201494	11/22/24 12:00	EMC	EET HOU
							Completed:	11/23/24 04:00 [1]		
TCLP	Prep	7470A			50 mL	50 mL	201856	11/25/24 09:44	AGR	EET HOU
TCLP	Analysis	7470A		1			202036	11/25/24 19:39	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			202532	11/27/24 10:52	JC	EET HOU

Client Sample ID: Martinez IV WWTP
Date Collected: 11/20/24 09:12
Date Received: 11/21/24 10:05

Lab Sample ID: 860-87586-3
Matrix: Solid
Percent Solids: 4.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			4.99 g	5 mL	202116	11/26/24 08:35	BH	EET HOU
Total/NA	Analysis	8082A		1			202114	11/26/24 12:32	KM	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Job ID: 860-87586-1
Project/Site: Annual TCLP

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Method Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8321B	Herbicides (LC/MS)	SW846	EET HOU
6010D	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Project/Site: Annual TCLP

Job ID: 860-87586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-87586-3	Martinez IV WWTP	Solid	11/20/24 09:12	11/21/24 10:05

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

San Antonio #239

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12/4/2024 (Rev. 3)

Client Information	Sampler: Ernest Munoz	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 840-4104-595.1
Client Contact: Ernest Munoz	Phone: (201) 773 336	E-Mail: Lindy.Maingot@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: San Antonio River Authority	PWSID:			Job #:
Address: 100 E. Guenther	Due Date Requested:			
City: San Antonio	TAT Requested (days):			
State, Zip: TX, 78204	Compliance Project: Δ Yes Δ No			
Phone: 210-373-1336(Tel)	PO #: Purchase Order Requested			
Email: emunoz@sariverauthority.org	WO #:			
Project Name: Annual TCLP Sampling	Project #: 84000389			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7470A TCLP Metals + Cu,Mo,Ni and Zn, 8081B TCLP OC Pesticides, 8260D TCLP Volatiles	8082A Total PCBs, 8270E_QQQ TCLP Semi-Volatiles, 8321B TCLP Herbicides, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Salitillo WWTP	11 20	8 30 AM	G	Solid			X	X		
Martinez II WWTP	11 20	8 50 AM	G	Solid			X	X		
Martinez IV WWTP	11 20	9 20 AM	G	Solid			X	X		
Gardenville Composting Waste Facility	11 20	9 45 AM	G	Solid			X	X		
Upper Martinez WWTP	11 20	0 pm	G	Solid			X	X		

860-87586 Chain of Custody

Temp 2.4 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2.3

Temp: 2.6 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2.5

Temp: 2.3 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 2.2

Preservation Codes: N None; Other

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11 20 24			11 20 24 2 15pm	
2		11 20 24		Fed x	11 20 24 1600	
3					11/21/24 1005	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.3 CF 1.8 Iesc001 +0.5

Ver 05/06/2024

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Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 860-87586-1

Login Number: 87586
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ernest Munoz
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Generated 7/2/2024 3:34:08 PM

JOB DESCRIPTION

City of Somerset WWTP

JOB NUMBER

860-76619-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/2/2024 3:34:08 PM

Authorized for release by
Lindy Maingot, Project Manager II
Lindy.Maingot@et.eurofinsus.com
(210)344-9751

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Definitions/Glossary

Client: San Antonio River Authority
Job ID: 860-76619-1
Project/Site: City of Somerset WWTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 860-76619-1 — Eurofins Houston

Job Narrative
860-76619-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 6/19/2024 9:49 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_QQQ - TCLP: The surrogate recovery for the leachate blank associated with preparation batch 860-167511 and 860-167749 and analytical batch 860-167715 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-167749 and analytical batch 860-167719 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-167749 and analytical batch 860-167719 recovered outside control limits for the following analytes: Nitrobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E_QQQ - TCLP: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-167749 and analytical batch 860-167719 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: City of Somerset Waste (860-76619-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B - TCLP: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-168197 and analytical batch 860-168397 recovered outside control limits for the following analytes: Endrin, Heptachlor, Heptachlor epoxide, gamma-BHC (Lindane) and Methoxychlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B - TCLP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: City of Somerset Waste (860-76619-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Job ID: 860-76619-1 (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Client Sample ID: City of Somerset Waste

Lab Sample ID: 860-76619-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0322	J	0.0500	0.0230	mg/L	50		8260C	TCLP
Barium	0.160		0.0500	0.00625	mg/L	1		6010C	TCLP
Lead	0.0600		0.0500	0.0184	mg/L	1		6010C	TCLP
Nickel	0.0269	J	0.0500	0.00885	mg/L	1		6010C	TCLP
Zinc	0.550		0.150	0.0419	mg/L	1		6010C	TCLP
Mercury	0.000804		0.000200	0.0000706	mg/L	1		7470A	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: City of Somerset Waste

Date Collected: 06/18/24 09:31
Date Received: 06/19/24 09:49

Lab Sample ID: 860-76619-1
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0322**	**J**	0.0500	0.0230	mg/L			06/21/24 20:57	50
Carbon tetrachloride	0.0448	U	0.250	0.0448	mg/L			06/21/24 20:57	50
Chlorobenzene	0.0228	U	0.0500	0.0228	mg/L			06/21/24 20:57	50
Chloroform	0.0232	U	0.0500	0.0232	mg/L			06/21/24 20:57	50
1,2-Dichloroethane	0.0186	U	0.0500	0.0186	mg/L			06/21/24 20:57	50
1,1-Dichloroethene	0.0369	U	0.0500	0.0369	mg/L			06/21/24 20:57	50
2-Butanone	0.414	U	2.50	0.414	mg/L			06/21/24 20:57	50
Tetrachloroethene	0.0328	U	0.0500	0.0328	mg/L			06/21/24 20:57	50
Trichloroethene	0.0750	U	0.250	0.0750	mg/L			06/21/24 20:57	50
Vinyl chloride	0.0214	U	0.100	0.0214	mg/L			06/21/24 20:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*06/21/24 20:57*	*50*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*06/21/24 20:57*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 131*		*06/21/24 20:57*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/21/24 20:57*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.54	U	11.3	1.54	ug/L		06/24/24 13:26	06/25/24 02:04	20
2,4,5-Trichlorophenol	2.84	U	11.3	2.84	ug/L		06/24/24 13:26	06/25/24 02:04	20
2,4,6-Trichlorophenol	4.57	U	11.3	4.57	ug/L		06/24/24 13:26	06/25/24 02:04	20
2,4-Dinitrotoluene	4.05	U	11.3	4.05	ug/L		06/24/24 13:26	06/25/24 02:04	20
2-Methylphenol	2.07	U	11.3	2.07	ug/L		06/24/24 13:26	06/25/24 02:04	20
3 & 4 Methylphenol	2.75	U	11.3	2.75	ug/L		06/24/24 13:26	06/25/24 02:04	20
Hexachlorobenzene	1.93	U	11.3	1.93	ug/L		06/24/24 13:26	06/25/24 02:04	20
Hexachlorobutadiene	2.03	U	11.3	2.03	ug/L		06/24/24 13:26	06/25/24 02:04	20
Hexachloroethane	2.02	U	11.3	2.02	ug/L		06/24/24 13:26	06/25/24 02:04	20
Nitrobenzene	1.46	U *+	11.3	1.46	ug/L		06/24/24 13:26	06/25/24 02:04	20
Pentachlorophenol	20.6	U	22.6	20.6	ug/L		06/24/24 13:26	06/25/24 02:04	20
Pyridine	28.5	U *1	56.6	28.5	ug/L		06/24/24 13:26	06/25/24 02:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*123*		*35 - 130*	*06/24/24 13:26*	*06/25/24 02:04*	*20*
2-Fluorobiphenyl (Surr)	*91*		*43 - 130*	*06/24/24 13:26*	*06/25/24 02:04*	*20*
2-Fluorophenol (Surr)	*125*	*S1+*	*19 - 120*	*06/24/24 13:26*	*06/25/24 02:04*	*20*
Nitrobenzene-d5 (Surr)	*189*	*S1+*	*37 - 133*	*06/24/24 13:26*	*06/25/24 02:04*	*20*
p-Terphenyl-d14 (Surr)	*108*		*47 - 130*	*06/24/24 13:26*	*06/25/24 02:04*	*20*
Phenol-d5 (Surr)	*87*		*8 - 124*	*06/24/24 13:26*	*06/25/24 02:04*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000200	U	0.00102	0.000200	mg/L		06/26/24 11:38	06/27/24 14:07	1
Endrin	0.0000170	U *+	0.0000511	0.0000170	mg/L		06/26/24 11:38	06/27/24 14:07	1
Heptachlor	0.0000178	U *+	0.0000511	0.0000178	mg/L		06/26/24 11:38	06/27/24 14:07	1
Heptachlor epoxide	0.0000186	U *+	0.0000511	0.0000186	mg/L		06/26/24 11:38	06/27/24 14:07	1
gamma-BHC (Lindane)	0.0000174	U *+	0.0000511	0.0000174	mg/L		06/26/24 11:38	06/27/24 14:07	1
Methoxychlor	0.0000190	U *+	0.0000511	0.0000190	mg/L		06/26/24 11:38	06/27/24 14:07	1
Toxaphene	0.000325	U	0.00102	0.000325	mg/L		06/26/24 11:38	06/27/24 14:07	1

Client Sample ID: City of Somerset Waste

Lab Sample ID: 860-76619-1

Date Collected: 06/18/24 09:31

Matrix: Solid

Date Received: 06/19/24 09:49

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*28*		*28 - 94*	*06/26/24 11:38*	*06/27/24 14:07*	*1*
Tetrachloro-m-xylene	*98*		*52 - 134*	*06/26/24 11:38*	*06/27/24 14:07*	*1*

Method: SW846 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.0000402	U	0.000201	0.0000402	mg/L		06/25/24 15:21	06/27/24 23:29	1
2,4-D	0.000156	U	0.000201	0.000156	mg/L		06/25/24 15:21	06/27/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*82*		*42 - 150*	*06/25/24 15:21*	*06/27/24 23:29*	*1*

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		06/23/24 10:30	06/24/24 12:25	1
Barium	**0.160**		0.0500	0.00625	mg/L		06/23/24 10:30	06/24/24 12:25	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		06/23/24 10:30	06/24/24 12:25	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		06/23/24 10:30	06/24/24 12:25	1
Lead	**0.0600**		0.0500	0.0184	mg/L		06/23/24 10:30	06/24/24 12:25	1
Selenium	0.0464	U	0.150	0.0464	mg/L		06/23/24 10:30	06/24/24 12:25	1
Silver	0.0186	U	0.100	0.0186	mg/L		06/23/24 10:30	06/24/24 12:25	1
Copper	0.0194	U	0.100	0.0194	mg/L		06/23/24 10:30	06/24/24 12:25	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		06/23/24 10:30	06/24/24 12:25	1
Nickel	**0.0269**	**J**	0.0500	0.00885	mg/L		06/23/24 10:30	06/24/24 12:25	1
Zinc	**0.550**		0.150	0.0419	mg/L		06/23/24 10:30	06/24/24 12:25	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000804**		0.000200	0.0000706	mg/L		06/26/24 00:30	06/26/24 16:59	1

Client Sample ID: City of Somerset Waste

Lab Sample ID: 860-76619-1

Date Collected: 06/18/24 09:31

Matrix: Solid

Date Received: 06/19/24 09:49

Percent Solids: 32.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.0676	U	0.285	0.0676	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1221	0.0676	U	0.285	0.0676	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1232	0.0676	U	0.285	0.0676	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1242	0.0676	U	0.285	0.0676	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1248	0.0676	U	0.285	0.0676	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1254	0.0446	U	0.285	0.0446	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1
PCB-1260	0.0446	U	0.285	0.0446	mg/Kg	☼	06/21/24 14:06	06/25/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*35 - 140*	*06/21/24 14:06*	*06/25/24 12:56*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*	*06/21/24 14:06*	*06/25/24 12:56*	*1*

Surrogate Summary

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
LCS 860-167480/3	Lab Control Sample	98	100	99	99
LCSD 860-167480/4	Lab Control Sample Dup	98	102	97	99
MB 860-167480/11	Method Blank	102	100	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
860-76619-1	City of Somerset Waste	106	102	98	99
LB 860-167147/1-A	Method Blank	101	102	100	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)
LCS 860-167749/2-A	Lab Control Sample	170 S1+	126	103	155 S1+	119	73
LCSD 860-167749/3-A	Lab Control Sample Dup	168 S1+	123	100	150 S1+	124	69
MB 860-167749/1-A	Method Blank	161 S1+	122	95	143 S1+	114	68

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(35-130)	(43-130)	(19-120)	(37-133)	(47-130)	(8-124)
860-76619-1	City of Somerset Waste	123	91	125 S1+	189 S1+	108	87
LB 860-167511/1-C	Method Blank	131 S1+	125	110	142 S1+	156 S1+	85

Surrogate Legend

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-76619-1
Project/Site: City of Somerset WWTP

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(28-94)	(52-134)								
LCS 860-168197/2-A	Lab Control Sample	50	109								
LCSD 860-168197/3-A	Lab Control Sample Dup	51	112								
MB 860-168197/1-A	Method Blank	57	130								

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX1								
Lab Sample ID	Client Sample ID	(28-94)	(52-134)								
860-76619-1	City of Somerset Waste	28	98								

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(28-94)	(52-134)								
LB 860-167511/1-H	Method Blank	48	124								

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-76619-1	City of Somerset Waste	81	106								
LCS 860-167455/2-A	Lab Control Sample	80	116								
LCSD 860-167455/3-A	Lab Control Sample Dup	80	113								
MB 860-167455/1-A	Method Blank	65	107								

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: San Antonio River Authority
Job ID: 860-76619-1
Project/Site: City of Somerset WWTP

Method: 8151A - Herbicides (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(42-150)
LCS 860-167869/2-A	Lab Control Sample	72
LCSD 860-167869/3-A	Lab Control Sample Dup	78
MB 860-167869/1-A	Method Blank	81

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(42-150)
860-76619-1	City of Somerset Waste	82
LB 860-167511/1-I	Method Blank	61

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-167480/11
Matrix: Solid
Analysis Batch: 167480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000460	U	0.00100	0.000460	mg/L			06/21/24 18:40	1
Carbon tetrachloride	0.000896	U	0.00500	0.000896	mg/L			06/21/24 18:40	1
Chlorobenzene	0.000455	U	0.00100	0.000455	mg/L			06/21/24 18:40	1
Chloroform	0.000464	U	0.00100	0.000464	mg/L			06/21/24 18:40	1
1,2-Dichloroethane	0.000372	U	0.00100	0.000372	mg/L			06/21/24 18:40	1
1,1-Dichloroethene	0.000738	U	0.00100	0.000738	mg/L			06/21/24 18:40	1
2-Butanone	0.00828	U	0.0500	0.00828	mg/L			06/21/24 18:40	1
Tetrachloroethene	0.000655	U	0.00100	0.000655	mg/L			06/21/24 18:40	1
Trichloroethene	0.00150	U	0.00500	0.00150	mg/L			06/21/24 18:40	1
Vinyl chloride	0.000428	U	0.00200	0.000428	mg/L			06/21/24 18:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*06/21/24 18:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*06/21/24 18:40*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*06/21/24 18:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/21/24 18:40*	*1*

Lab Sample ID: LCS 860-167480/3
Matrix: Solid
Analysis Batch: 167480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05546		mg/L		111	75 - 125		
Carbon tetrachloride			0.0500	0.05804		mg/L		116	70 - 125		
Chlorobenzene			0.0500	0.05358		mg/L		107	82 - 135		
Chloroform			0.0500	0.05533		mg/L		111	70 - 121		
1,2-Dichloroethane			0.0500	0.05268		mg/L		105	72 - 130		
1,1-Dichloroethene			0.0500	0.04936		mg/L		99	50 - 150		
2-Butanone			0.250	0.2475		mg/L		99	60 - 140		
Tetrachloroethene			0.0500	0.05707		mg/L		114	71 - 125		
Trichloroethene			0.0500	0.05606		mg/L		112	75 - 135		
Vinyl chloride			0.0500	0.04743		mg/L		95	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-167480/4
Matrix: Solid
Analysis Batch: 167480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05422		mg/L		108	75 - 125	2	25
Carbon tetrachloride			0.0500	0.05658		mg/L		113	70 - 125	3	25
Chlorobenzene			0.0500	0.05377		mg/L		108	82 - 135	0	25
Chloroform			0.0500	0.05369		mg/L		107	70 - 121	3	25

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-167480/4
Matrix: Solid
Analysis Batch: 167480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			0.0500	0.05130		mg/L		103	72 - 130	3	25
1,1-Dichloroethene			0.0500	0.04779		mg/L		96	50 - 150	3	25
2-Butanone			0.250	0.2411		mg/L		96	60 - 140	3	25
Tetrachloroethene			0.0500	0.05639		mg/L		113	71 - 125	1	25
Trichloroethene			0.0500	0.05611		mg/L		112	75 - 135	0	25
Vinyl chloride			0.0500	0.04516		mg/L		90	60 - 140	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LB 860-167147/1-A
Matrix: Solid
Analysis Batch: 167480

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00230	U	0.00500	0.00230	mg/L			06/21/24 18:21	5
Carbon tetrachloride	0.00448	U	0.0250	0.00448	mg/L			06/21/24 18:21	5
Chlorobenzene	0.00228	U	0.00500	0.00228	mg/L			06/21/24 18:21	5
Chloroform	0.00232	U	0.00500	0.00232	mg/L			06/21/24 18:21	5
1,2-Dichloroethane	0.00186	U	0.00500	0.00186	mg/L			06/21/24 18:21	5
1,1-Dichloroethene	0.00369	U	0.00500	0.00369	mg/L			06/21/24 18:21	5
2-Butanone	0.0414	U	0.250	0.0414	mg/L			06/21/24 18:21	5
Tetrachloroethene	0.00328	U	0.00500	0.00328	mg/L			06/21/24 18:21	5
Trichloroethene	0.00750	U	0.0250	0.00750	mg/L			06/21/24 18:21	5
Vinyl chloride	0.00214	U	0.0100	0.00214	mg/L			06/21/24 18:21	5

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*06/21/24 18:21*	*5*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*06/21/24 18:21*	*5*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*06/21/24 18:21*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/24 18:21*	*5*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-167749/1-A
Matrix: Solid
Analysis Batch: 167719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0771	U	0.566	0.0771	ug/L		06/24/24 13:26	06/24/24 16:06	1
2,4,5-Trichlorophenol	0.142	U	0.566	0.142	ug/L		06/24/24 13:26	06/24/24 16:06	1
2,4,6-Trichlorophenol	0.228	U	0.566	0.228	ug/L		06/24/24 13:26	06/24/24 16:06	1
2,4-Dinitrotoluene	0.203	U	0.566	0.203	ug/L		06/24/24 13:26	06/24/24 16:06	1
2-Methylphenol	0.104	U	0.566	0.104	ug/L		06/24/24 13:26	06/24/24 16:06	1
3 & 4 Methylphenol	0.138	U	0.566	0.138	ug/L		06/24/24 13:26	06/24/24 16:06	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-167749/1-A
Matrix: Solid
Analysis Batch: 167719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.0965	U	0.566	0.0965	ug/L		06/24/24 13:26	06/24/24 16:06	1
Hexachlorobutadiene	0.102	U	0.566	0.102	ug/L		06/24/24 13:26	06/24/24 16:06	1
Hexachloroethane	0.101	U	0.566	0.101	ug/L		06/24/24 13:26	06/24/24 16:06	1
Nitrobenzene	0.0729	U	0.566	0.0729	ug/L		06/24/24 13:26	06/24/24 16:06	1
Pentachlorophenol	1.03	U	1.13	1.03	ug/L		06/24/24 13:26	06/24/24 16:06	1
Pyridine	1.42	U	2.83	1.42	ug/L		06/24/24 13:26	06/24/24 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*161*	*S1+*	*35 - 130*	*06/24/24 13:26*	*06/24/24 16:06*	*1*
2-Fluorobiphenyl (Surr)	*122*		*43 - 130*	*06/24/24 13:26*	*06/24/24 16:06*	*1*
2-Fluorophenol (Surr)	*95*		*19 - 120*	*06/24/24 13:26*	*06/24/24 16:06*	*1*
Nitrobenzene-d5 (Surr)	*143*	*S1+*	*37 - 133*	*06/24/24 13:26*	*06/24/24 16:06*	*1*
p-Terphenyl-d14 (Surr)	*114*		*47 - 130*	*06/24/24 13:26*	*06/24/24 16:06*	*1*
Phenol-d5 (Surr)	*68*		*8 - 124*	*06/24/24 13:26*	*06/24/24 16:06*	*1*

Lab Sample ID: LCS 860-167749/2-A
Matrix: Solid
Analysis Batch: 167719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167749

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dichlorobenzene			2.83	2.170		ug/L		77	28 - 130		
2,4,5-Trichlorophenol			2.83	3.168		ug/L		112	35 - 130		
2,4,6-Trichlorophenol			2.83	3.175		ug/L		112	52 - 129		
2,4-Dinitrotoluene			2.83	3.053		ug/L		108	48 - 127		
2-Methylphenol			2.83	3.203		ug/L		113	14 - 176		
3 & 4 Methylphenol			2.83	3.038		ug/L		107	22 - 130		
Hexachlorobenzene			2.83	3.140		ug/L		111	8 - 142		
Hexachlorobutadiene			2.83	1.236		ug/L		44	10 - 130		
Hexachloroethane			2.83	1.865		ug/L		66	10 - 130		
Nitrobenzene			2.83	3.983	*+	ug/L		141	54 - 130		
Pentachlorophenol			2.83	3.085		ug/L		109	38 - 152		
Pyridine			2.83	1.42	U	ug/L		30	1 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*170*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*126*		*43 - 130*
2-Fluorophenol (Surr)	*103*		*19 - 120*
Nitrobenzene-d5 (Surr)	*155*	*S1+*	*37 - 133*
p-Terphenyl-d14 (Surr)	*119*		*47 - 130*
Phenol-d5 (Surr)	*73*		*8 - 124*

Lab Sample ID: LCSD 860-167749/3-A
Matrix: Solid
Analysis Batch: 167719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167749

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			2.88	2.380		ug/L		83	28 - 130	9	30
2,4,5-Trichlorophenol			2.88	3.325		ug/L		116	35 - 130	5	30

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-167749/3-A
Matrix: Solid
Analysis Batch: 167719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167749

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,6-Trichlorophenol			2.88	3.387		ug/L		118	52 - 129	6	30
2,4-Dinitrotoluene			2.88	3.189		ug/L		111	48 - 127	4	30
2-Methylphenol			2.88	3.193		ug/L		111	14 - 176	0	30
3 & 4 Methylphenol			2.88	3.110		ug/L		108	22 - 130	2	30
Hexachlorobenzene			2.88	3.236		ug/L		112	8 - 142	3	30
Hexachlorobutadiene			2.88	1.397		ug/L		49	10 - 130	12	30
Hexachloroethane			2.88	2.081		ug/L		72	10 - 130	11	30
Nitrobenzene			2.88	4.262	*+	ug/L		148	54 - 130	7	30
Pentachlorophenol			2.88	3.853		ug/L		134	38 - 152	22	30
Pyridine			2.88	1.45	U *1	ug/L		16	1 - 126	61	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*168*	*S1+*	*35 - 130*
2-Fluorobiphenyl (Surr)	*123*		*43 - 130*
2-Fluorophenol (Surr)	*100*		*19 - 120*
Nitrobenzene-d5 (Surr)	*150*	*S1+*	*37 - 133*
p-Terphenyl-d14 (Surr)	*124*		*47 - 130*
Phenol-d5 (Surr)	*69*		*8 - 124*

Lab Sample ID: LB 860-167511/1-C
Matrix: Solid
Analysis Batch: 167715

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 167749

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0769	U	0.564	0.0769	ug/L		06/24/24 13:26	06/24/24 20:48	1
2,4,5-Trichlorophenol	0.141	U	0.564	0.141	ug/L		06/24/24 13:26	06/24/24 20:48	1
2,4,6-Trichlorophenol	0.228	U	0.564	0.228	ug/L		06/24/24 13:26	06/24/24 20:48	1
2,4-Dinitrotoluene	0.202	U	0.564	0.202	ug/L		06/24/24 13:26	06/24/24 20:48	1
2-Methylphenol	0.103	U	0.564	0.103	ug/L		06/24/24 13:26	06/24/24 20:48	1
3 & 4 Methylphenol	0.137	U	0.564	0.137	ug/L		06/24/24 13:26	06/24/24 20:48	1
Hexachlorobenzene	0.0962	U	0.564	0.0962	ug/L		06/24/24 13:26	06/24/24 20:48	1
Hexachlorobutadiene	0.101	U	0.564	0.101	ug/L		06/24/24 13:26	06/24/24 20:48	1
Hexachloroethane	0.101	U	0.564	0.101	ug/L		06/24/24 13:26	06/24/24 20:48	1
Nitrobenzene	0.0727	U	0.564	0.0727	ug/L		06/24/24 13:26	06/24/24 20:48	1
Pentachlorophenol	1.03	U	1.13	1.03	ug/L		06/24/24 13:26	06/24/24 20:48	1
Pyridine	1.42	U	2.82	1.42	ug/L		06/24/24 13:26	06/24/24 20:48	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*131*	*S1+*	*35 - 130*	*06/24/24 13:26*	*06/24/24 20:48*	*1*
2-Fluorobiphenyl (Surr)	*125*		*43 - 130*	*06/24/24 13:26*	*06/24/24 20:48*	*1*
2-Fluorophenol (Surr)	*110*		*19 - 120*	*06/24/24 13:26*	*06/24/24 20:48*	*1*
Nitrobenzene-d5 (Surr)	*142*	*S1+*	*37 - 133*	*06/24/24 13:26*	*06/24/24 20:48*	*1*
p-Terphenyl-d14 (Surr)	*156*	*S1+*	*47 - 130*	*06/24/24 13:26*	*06/24/24 20:48*	*1*
Phenol-d5 (Surr)	*85*		*8 - 124*	*06/24/24 13:26*	*06/24/24 20:48*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-168197/1-A
Matrix: Solid
Analysis Batch: 168397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000195	U	0.00100	0.000195	mg/L		06/26/24 11:38	06/27/24 09:49	1
Endrin	0.0000166	U	0.0000500	0.0000166	mg/L		06/26/24 11:38	06/27/24 09:49	1
Heptachlor	0.0000174	U	0.0000500	0.0000174	mg/L		06/26/24 11:38	06/27/24 09:49	1
Heptachlor epoxide	0.0000182	U	0.0000500	0.0000182	mg/L		06/26/24 11:38	06/27/24 09:49	1
gamma-BHC (Lindane)	0.0000170	U	0.0000500	0.0000170	mg/L		06/26/24 11:38	06/27/24 09:49	1
Methoxychlor	0.0000186	U	0.0000500	0.0000186	mg/L		06/26/24 11:38	06/27/24 09:49	1
Toxaphene	0.000318	U	0.00100	0.000318	mg/L		06/26/24 11:38	06/27/24 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*28 - 94*	*06/26/24 11:38*	*06/27/24 09:49*	*1*
Tetrachloro-m-xylene	*130*		*52 - 134*	*06/26/24 11:38*	*06/27/24 09:49*	*1*

Lab Sample ID: LCS 860-168197/2-A
Matrix: Solid
Analysis Batch: 168397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168197

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.00125	0.001672	*+	mg/L		134	55 - 102		
Heptachlor			0.00125	0.001382	*+	mg/L		111	55 - 106		
Heptachlor epoxide			0.00125	0.001569	*+	mg/L		126	56 - 109		
gamma-BHC (Lindane)			0.00125	0.001663	*+	mg/L		133	59 - 107		
Methoxychlor			0.00125	0.001535	*+	mg/L		123	53 - 102		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*50*		*28 - 94*
Tetrachloro-m-xylene	*109*		*52 - 134*

Lab Sample ID: LCSD 860-168197/3-A
Matrix: Solid
Analysis Batch: 168397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168197

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.00125	0.001716	*+	mg/L		137	55 - 102	3	25
Heptachlor			0.00125	0.001418	*+	mg/L		113	55 - 106	3	25
Heptachlor epoxide			0.00125	0.001608	*+	mg/L		129	56 - 109	2	25
gamma-BHC (Lindane)			0.00125	0.001708	*+	mg/L		137	59 - 107	3	25
Methoxychlor			0.00125	0.001578	*+	mg/L		126	53 - 102	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*51*		*28 - 94*
Tetrachloro-m-xylene	*112*		*52 - 134*

Lab Sample ID: LB 860-167511/1-H
Matrix: Solid
Analysis Batch: 168397

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 168197

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000202	U	0.00103	0.000202	mg/L		06/26/24 11:38	06/27/24 10:34	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-167511/1-H
Matrix: Solid
Analysis Batch: 168397

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 168197

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000171	U	0.0000517	0.0000171	mg/L		06/26/24 11:38	06/27/24 10:34	1
Heptachlor	0.0000180	U	0.0000517	0.0000180	mg/L		06/26/24 11:38	06/27/24 10:34	1
Heptachlor epoxide	0.0000188	U	0.0000517	0.0000188	mg/L		06/26/24 11:38	06/27/24 10:34	1
gamma-BHC (Lindane)	0.0000175	U	0.0000517	0.0000175	mg/L		06/26/24 11:38	06/27/24 10:34	1
Methoxychlor	0.0000192	U	0.0000517	0.0000192	mg/L		06/26/24 11:38	06/27/24 10:34	1
Toxaphene	0.000328	U	0.00103	0.000328	mg/L		06/26/24 11:38	06/27/24 10:34	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*28 - 94*	*06/26/24 11:38*	*06/27/24 10:34*	*1*
Tetrachloro-m-xylene	*124*		*52 - 134*	*06/26/24 11:38*	*06/27/24 10:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-167455/1-A
Matrix: Solid
Analysis Batch: 167942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00395	U	0.0167	0.00395	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1221	0.00395	U	0.0167	0.00395	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1232	0.00395	U	0.0167	0.00395	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1242	0.00395	U	0.0167	0.00395	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1248	0.00395	U	0.0167	0.00395	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1254	0.00261	U	0.0167	0.00261	mg/Kg		06/21/24 14:06	06/25/24 11:54	1
PCB-1260	0.00261	U	0.0167	0.00261	mg/Kg		06/21/24 14:06	06/25/24 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*35 - 140*	*06/21/24 14:06*	*06/25/24 11:54*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 142*	*06/21/24 14:06*	*06/25/24 11:54*	*1*

Lab Sample ID: LCS 860-167455/2-A
Matrix: Solid
Analysis Batch: 167942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167455

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1529		mg/Kg		92	27 - 121		
PCB-1260			0.167	0.1844		mg/Kg		111	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 142*

Lab Sample ID: LCSD 860-167455/3-A
Matrix: Solid
Analysis Batch: 167942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167455

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1483		mg/Kg		89	27 - 121	3	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-167455/3-A
Matrix: Solid
Analysis Batch: 167942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167455

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260			0.167	0.1752		mg/Kg		105	27 - 139	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 142*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 860-167869/1-A
Matrix: Solid
Analysis Batch: 168399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.0000400	U	0.000200	0.0000400	mg/L		06/25/24 06:01	06/27/24 11:42	1
2,4-D	0.000155	U	0.000200	0.000155	mg/L		06/25/24 06:01	06/27/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*42 - 150*	*06/25/24 06:01*	*06/27/24 11:42*	*1*

Lab Sample ID: LCS 860-167869/2-A
Matrix: Solid
Analysis Batch: 168399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)			0.00200	0.001511		mg/L		76	45 - 124
2,4-D			0.00200	0.001246		mg/L		62	45 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*72*		*42 - 150*

Lab Sample ID: LCSD 860-167869/3-A
Matrix: Solid
Analysis Batch: 168399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167869

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)			0.00200	0.001657		mg/L		83	45 - 124	9	25
2,4-D			0.00200	0.001356		mg/L		68	45 - 124	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*78*		*42 - 150*

Lab Sample ID: LB 860-167511/1-I
Matrix: Solid
Analysis Batch: 168399

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 167869

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.0000400	U	0.000200	0.0000400	mg/L		06/25/24 15:21	06/27/24 14:53	1
2,4-D	0.000155	U	0.000200	0.000155	mg/L		06/25/24 15:21	06/27/24 14:53	1

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	61		42 - 150	06/25/24 15:21	06/27/24 14:53	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-167629/1-A
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00650	U	0.0100	0.00650	mg/L		06/23/24 10:30	06/24/24 11:23	1
Barium	0.00125	U	0.0100	0.00125	mg/L		06/23/24 10:30	06/24/24 11:23	1
Cadmium	0.000831	U	0.00500	0.000831	mg/L		06/23/24 10:30	06/24/24 11:23	1
Chromium	0.00216	U	0.0100	0.00216	mg/L		06/23/24 10:30	06/24/24 11:23	1
Lead	0.00368	U	0.0100	0.00368	mg/L		06/23/24 10:30	06/24/24 11:23	1
Selenium	0.00927	U	0.0300	0.00927	mg/L		06/23/24 10:30	06/24/24 11:23	1
Silver	0.00371	U	0.0200	0.00371	mg/L		06/23/24 10:30	06/24/24 11:23	1
Copper	0.00388	U	0.0200	0.00388	mg/L		06/23/24 10:30	06/24/24 11:23	1
Molybdenum	0.00260	U	0.0100	0.00260	mg/L		06/23/24 10:30	06/24/24 11:23	1
Nickel	0.00177	U	0.0100	0.00177	mg/L		06/23/24 10:30	06/24/24 11:23	1
Zinc	0.00837	U	0.0300	0.00837	mg/L		06/23/24 10:30	06/24/24 11:23	1

Lab Sample ID: LCS 860-167629/2-A
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.010		mg/L		101	80 - 120
Barium	1.00	1.020		mg/L		102	80 - 120
Cadmium	1.00	0.9840		mg/L		98	80 - 120
Chromium	1.00	1.010		mg/L		101	80 - 120
Lead	1.00	0.9980		mg/L		100	80 - 120
Selenium	1.00	1.050		mg/L		105	80 - 120
Silver	0.500	0.4710		mg/L		94	80 - 120
Copper	1.00	1.000		mg/L		100	80 - 120
Molybdenum	1.00	0.9860		mg/L		99	80 - 120
Nickel	1.00	1.000		mg/L		100	80 - 120
Zinc	1.00	1.020		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-167629/3-A
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167629

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.010		mg/L		101	80 - 120	0	20
Barium	1.00	1.020		mg/L		102	80 - 120	0	20
Cadmium	1.00	0.9850		mg/L		99	80 - 120	0	20
Chromium	1.00	1.010		mg/L		101	80 - 120	0	20
Lead	1.00	1.000		mg/L		100	80 - 120	0	20
Selenium	1.00	1.060		mg/L		106	80 - 120	1	20
Silver	0.500	0.4740		mg/L		95	80 - 120	1	20
Copper	1.00	1.000		mg/L		100	80 - 120	0	20
Molybdenum	1.00	0.9960		mg/L		100	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-167629/3-A
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167629

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	1.00	1.010		mg/L		101	80 - 120	1	20
Zinc	1.00	1.030		mg/L		103	80 - 120	1	20

Lab Sample ID: LB 860-167164/1-D
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 167629

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		06/23/24 10:30	06/24/24 11:28	1
Barium	0.00625	U	0.0500	0.00625	mg/L		06/23/24 10:30	06/24/24 11:28	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		06/23/24 10:30	06/24/24 11:28	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		06/23/24 10:30	06/24/24 11:28	1
Lead	0.0184	U	0.0500	0.0184	mg/L		06/23/24 10:30	06/24/24 11:28	1
Selenium	0.0464	U	0.150	0.0464	mg/L		06/23/24 10:30	06/24/24 11:28	1
Silver	0.0186	U	0.100	0.0186	mg/L		06/23/24 10:30	06/24/24 11:28	1
Copper	0.0194	U	0.100	0.0194	mg/L		06/23/24 10:30	06/24/24 11:28	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		06/23/24 10:30	06/24/24 11:28	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		06/23/24 10:30	06/24/24 11:28	1
Zinc	0.0419	U	0.150	0.0419	mg/L		06/23/24 10:30	06/24/24 11:28	1

Lab Sample ID: LB 860-167511/1-B
Matrix: Solid
Analysis Batch: 167806

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 167629

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325	U	0.0500	0.0325	mg/L		06/23/24 10:30	06/24/24 12:13	1
Barium	0.00625	U	0.0500	0.00625	mg/L		06/23/24 10:30	06/24/24 12:13	1
Cadmium	0.00416	U	0.0250	0.00416	mg/L		06/23/24 10:30	06/24/24 12:13	1
Chromium	0.0108	U	0.0500	0.0108	mg/L		06/23/24 10:30	06/24/24 12:13	1
Lead	0.0184	U	0.0500	0.0184	mg/L		06/23/24 10:30	06/24/24 12:13	1
Selenium	0.0464	U	0.150	0.0464	mg/L		06/23/24 10:30	06/24/24 12:13	1
Silver	0.0186	U	0.100	0.0186	mg/L		06/23/24 10:30	06/24/24 12:13	1
Copper	0.0194	U	0.100	0.0194	mg/L		06/23/24 10:30	06/24/24 12:13	1
Molybdenum	0.0130	U	0.0500	0.0130	mg/L		06/23/24 10:30	06/24/24 12:13	1
Nickel	0.00885	U	0.0500	0.00885	mg/L		06/23/24 10:30	06/24/24 12:13	1
Zinc	0.0419	U	0.150	0.0419	mg/L		06/23/24 10:30	06/24/24 12:13	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-168084/1-A
Matrix: Solid
Analysis Batch: 168296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		06/26/24 00:30	06/26/24 16:23	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-168084/2-A
Matrix: Solid
Analysis Batch: 168296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168084

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00200	0.002262		mg/L		113	80 - 120		

Lab Sample ID: LCSD 860-168084/3-A
Matrix: Solid
Analysis Batch: 168296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168084

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00200	0.002211		mg/L		111	80 - 120	2	20

Lab Sample ID: LB 860-167511/1-G
Matrix: Solid
Analysis Batch: 168296

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 168084

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		06/26/24 00:30	06/26/24 16:52	1

Lab Sample ID: LB 860-167759/1-C
Matrix: Solid
Analysis Batch: 168296

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 168084

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000706	U	0.000200	0.0000706	mg/L		06/26/24 00:30	06/26/24 16:27	1

GC/MS VOA

Leach Batch: 167147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	1311	
LB 860-167147/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 167480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	8260C	167147
LB 860-167147/1-A	Method Blank	TCLP	Solid	8260C	167147
MB 860-167480/11	Method Blank	Total/NA	Solid	8260C	
LCS 860-167480/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-167480/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 167511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	1311	
LB 860-167511/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 167715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-167511/1-C	Method Blank	TCLP	Solid	8270E	167749

Analysis Batch: 167719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-167749/1-A	Method Blank	Total/NA	Solid	8270E	167749
LCS 860-167749/2-A	Lab Control Sample	Total/NA	Solid	8270E	167749
LCSD 860-167749/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	167749

Prep Batch: 167749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	3511	167511
LB 860-167511/1-C	Method Blank	TCLP	Solid	3511	167511
MB 860-167749/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-167749/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-167749/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 167834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	8270E	167749

GC Semi VOA

Prep Batch: 167455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	Total/NA	Solid	3550C	
MB 860-167455/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-167455/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-167455/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Leach Batch: 167511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	1311	

GC Semi VOA (Continued)

Leach Batch: 167511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-167511/1-H	Method Blank	TCLP	Solid	1311	
LB 860-167511/1-I	Method Blank	TCLP	Solid	1311	

Prep Batch: 167869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	3511	167511
LB 860-167511/1-I	Method Blank	TCLP	Solid	3511	167511
MB 860-167869/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-167869/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-167869/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 167942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	Total/NA	Solid	8082A	167455
MB 860-167455/1-A	Method Blank	Total/NA	Solid	8082A	167455
LCS 860-167455/2-A	Lab Control Sample	Total/NA	Solid	8082A	167455
LCSD 860-167455/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	167455

Prep Batch: 168197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	3511	167511
LB 860-167511/1-H	Method Blank	TCLP	Solid	3511	167511
MB 860-168197/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-168197/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-168197/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 168397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	8081B	168197
LB 860-167511/1-H	Method Blank	TCLP	Solid	8081B	168197
MB 860-168197/1-A	Method Blank	Total/NA	Solid	8081B	168197
LCS 860-168197/2-A	Lab Control Sample	Total/NA	Solid	8081B	168197
LCSD 860-168197/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	168197

Analysis Batch: 168399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	8151A	167869
LB 860-167511/1-I	Method Blank	TCLP	Solid	8151A	167869
MB 860-167869/1-A	Method Blank	Total/NA	Solid	8151A	167869
LCS 860-167869/2-A	Lab Control Sample	Total/NA	Solid	8151A	167869
LCSD 860-167869/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	167869

Metals

Leach Batch: 167164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-167164/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 167511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 167511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-167511/1-B	Method Blank	TCLP	Solid	1311	
LB 860-167511/1-G	Method Blank	TCLP	Solid	1311	

Prep Batch: 167629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	3010A	167511
LB 860-167164/1-D	Method Blank	TCLP	Solid	3010A	167164
LB 860-167511/1-B	Method Blank	TCLP	Solid	3010A	167511
MB 860-167629/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-167629/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-167629/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Leach Batch: 167759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-167759/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 167806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	6010C	167629
LB 860-167164/1-D	Method Blank	TCLP	Solid	6010C	167629
LB 860-167511/1-B	Method Blank	TCLP	Solid	6010C	167629
MB 860-167629/1-A	Method Blank	Total/NA	Solid	6010C	167629
LCS 860-167629/2-A	Lab Control Sample	Total/NA	Solid	6010C	167629
LCSD 860-167629/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	167629

Prep Batch: 168084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	7470A	167511
LB 860-167511/1-G	Method Blank	TCLP	Solid	7470A	167511
LB 860-167759/1-C	Method Blank	TCLP	Solid	7470A	167759
MB 860-168084/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 860-168084/2-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 860-168084/3-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 168296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	TCLP	Solid	7470A	168084
LB 860-167511/1-G	Method Blank	TCLP	Solid	7470A	168084
LB 860-167759/1-C	Method Blank	TCLP	Solid	7470A	168084
MB 860-168084/1-A	Method Blank	Total/NA	Solid	7470A	168084
LCS 860-168084/2-A	Lab Control Sample	Total/NA	Solid	7470A	168084
LCSD 860-168084/3-A	Lab Control Sample Dup	Total/NA	Solid	7470A	168084

General Chemistry

Analysis Batch: 167772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-76619-1	City of Somerset Waste	Total/NA	Solid	Moisture	
MB 860-167772/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Client Sample ID: City of Somerset Waste

Lab Sample ID: 860-76619-1

Date Collected: 06/18/24 09:31

Matrix: Solid

Date Received: 06/19/24 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.03 g	400 mL	167147	06/20/24 12:00	JCM	EET HOU
							Completed:	06/21/24 04:00 [1]		
TCLP	Analysis	8260C		50	5 mL	5 mL	167480	06/21/24 20:57	NA	EET HOU
TCLP	Leach	1311			100.33 g	2000 mL	167511	06/21/24 17:00	JCM	EET HOU
							Completed:	06/22/24 09:00 [1]		
TCLP	Prep	3511			70.7 mL	4.00 mL	167749	06/24/24 13:26	DR	EET HOU
TCLP	Analysis	8270E		20	1 mL	1 mL	167834	06/25/24 02:04	EM	EET HOU
TCLP	Leach	1311			100.33 g	2000 mL	167511	06/21/24 17:00	JCM	EET HOU
							Completed:	06/22/24 09:00 [1]		
TCLP	Prep	3511			48.9 mL	5 mL	168197	06/26/24 11:38	DS	EET HOU
TCLP	Analysis	8081B		1			168397	06/27/24 14:07	KM	EET HOU
TCLP	Leach	1311			100.33 g	2000 mL	167511	06/21/24 17:00	JCM	EET HOU
							Completed:	06/22/24 09:00 [1]		
TCLP	Prep	3511			49.8 mL	4 mL	167869	06/25/24 15:21	BH	EET HOU
TCLP	Analysis	8151A		1			168399	06/27/24 23:29	WP	EET HOU
TCLP	Leach	1311			100.33 g	2000 mL	167511	06/21/24 17:00	JCM	EET HOU
							Completed:	06/22/24 09:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	167629	06/23/24 10:30	MD	EET HOU
TCLP	Analysis	6010C		1			167806	06/24/24 12:25	JDM	EET HOU
TCLP	Leach	1311			100.33 g	2000 mL	167511	06/21/24 17:00	JCM	EET HOU
							Completed:	06/22/24 09:00 [1]		
TCLP	Prep	7470A			50 mL	50 mL	168084	06/26/24 00:30	AGR	EET HOU
TCLP	Analysis	7470A		1			168296	06/26/24 16:59	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			167772	06/24/24 13:30	JC	EET HOU

Client Sample ID: City of Somerset Waste

Lab Sample ID: 860-76619-1

Date Collected: 06/18/24 09:31

Matrix: Solid

Date Received: 06/19/24 09:49

Percent Solids: 32.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			5.36 g	5 mL	167455	06/21/24 14:06	DS	EET HOU
Total/NA	Analysis	8082A		1			167942	06/25/24 12:56	WP	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Method Summary

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8151A	Herbicides (GC)	SW846	EET HOU
6010C	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Project/Site: City of Somerset WWTP

Job ID: 860-76619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-76619-1	City of Somerset Waste	Solid	06/18/24 09:31	06/19/24 09:49

Eurofins San Antonio
5309 Wurzbach Rd. #119
San Antonio, TX 78238
Phone (210) 509-3334

Chain of Custody Record

San Antonio #230 - 840

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Client Information	Sampler: Ernest Munoz	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 840-4026-536.1
Client Contact: Ernest Munoz	Phone: (210) 373-1336	E-Mail: Lindy.Maingot@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: San Antonio River Authority	PWSID:			Job #:
Address: 100 E. Guenther	Due Date Requested:			
City: San Antonio	TAT Requested (days):			
State, Zip: TX, 78204	Compliance Project: Δ Yes Δ No			
Phone: 210-373-1336(Tel)	PO #: Pre-Payment by CC Required			
Email: emunoz@sariverauthority.org	WO #:			
Project Name: City of Somerset WWTP	Project #: 84000448			
Site: City of Somerset WWTP	SSOW#:			

Analysis Requested

Preservation Codes: N None

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8270E_QQQ 8270_QQQ TCLP SVOCs	6010C, 7470A TCLP Metals, 8081B TCLP Pesticides, 8151A TCLP Herbicides, 8260C TCLP Volatiles	8082A 8082 Standard PCBs	Moisture Moisture	Total Number of containers	Special Instructions/Note:
City of Somerset WWTP Waste	6-18-24	9:31a		Solid	N	1	1	1	1		

860-76619 Chain of Custody

Temp 1.9 IR ID HOU-368
C/F +0.2
Corrected Temp: 2.1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6-18-24 1:58pm	Company: SARA	Received by:	Date/Time: 6-18-24 13:55	Company
Relinquished by:	Date/Time: 6-18-24	Company	Received by: Fed X 16:00	Date/Time: 6-18-24	Company
Relinquished by: Fedex	Date/Time:	Company	Received by:	Date/Time: 6/19/24 949	Company E

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 2.5 c/F=3.0 IR001 scm

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 860-76619-1

Login Number: 76619

List Source: Eurofins Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco
5309 Wurzbach Rd. #119
San Antonio, TX 78238
Tel: (210)509-3334

Laboratory Job ID: 840-675-1
Client Project/Site: LaVernia WWTP Waste Characterization

For:
San Antonio River Authority
100 E. Guenther
San Antonio, Texas 78204

Attn: Clairissa Flores

Authorized for release by:
1/6/2022 1:47:49 PM

Irene Vann, Project Manager
(210)509-3334
irene.vann@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 840-675-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
840-675-1

Receipt
The sample was received on 12/17/2021 1:34 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LaVernia Drying Box (840-675-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The following sample was diluted due to yellow color of the extract: LaVernia Drying Box (840-675-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010C: The leachate blank for preparation batch 860-35008 and 860-36344 and analytical batch 860-36653 contained barium and zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1
Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0107	U	0.0500	0.0107	mg/L			12/22/21 03:57	50
Carbon tetrachloride	0.0211	U	0.250	0.0211	mg/L			12/22/21 03:57	50
Chlorobenzene	0.00795	U	0.0500	0.00795	mg/L			12/22/21 03:57	50
Chloroform	0.0129	U	0.0500	0.0129	mg/L			12/22/21 03:57	50
1,2-Dichloroethane	0.0143	U	0.0500	0.0143	mg/L			12/22/21 03:57	50
1,1-Dichloroethene	0.0108	U	0.0500	0.0108	mg/L			12/22/21 03:57	50
2-Butanone	0.135	U	2.50	0.135	mg/L			12/22/21 03:57	50
Tetrachloroethene	0.0250	U	0.0500	0.0250	mg/L			12/22/21 03:57	50
Trichloroethene	0.0212	U	0.250	0.0212	mg/L			12/22/21 03:57	50
Vinyl chloride	0.0117	U	0.100	0.0117	mg/L			12/22/21 03:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*12/22/21 03:57*	*50*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*		*12/22/21 03:57*	*50*
Dibromofluoromethane (Surr)	*110*		*75 - 131*		*12/22/21 03:57*	*50*
Toluene-d8 (Surr)	*100*		*80 - 117*		*12/22/21 03:57*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00325	U	0.0250	0.00325	mg/L		12/21/21 17:25	12/22/21 11:35	1
2,4,5-Trichlorophenol	0.00468	U	0.0250	0.00468	mg/L		12/21/21 17:25	12/22/21 11:35	1
2,4,6-Trichlorophenol	0.00473	U	0.0250	0.00473	mg/L		12/21/21 17:25	12/22/21 11:35	1
2,4-Dinitrotoluene	0.00477	U	0.0250	0.00477	mg/L		12/21/21 17:25	12/22/21 11:35	1
2-Methylphenol	0.00457	U	0.0250	0.00457	mg/L		12/21/21 17:25	12/22/21 11:35	1
Hexachlorobenzene	0.00537	U	0.0250	0.00537	mg/L		12/21/21 17:25	12/22/21 11:35	1
Hexachlorobutadiene	0.00355	U	0.0250	0.00355	mg/L		12/21/21 17:25	12/22/21 11:35	1
Hexachloroethane	0.00393	U	0.0250	0.00393	mg/L		12/21/21 17:25	12/22/21 11:35	1
Nitrobenzene	0.00480	U	0.0250	0.00480	mg/L		12/21/21 17:25	12/22/21 11:35	1
Pentachlorophenol	0.00558	U	0.0500	0.00558	mg/L		12/21/21 17:25	12/22/21 11:35	1
Pyridine	0.00244	U *1	0.0500	0.00244	mg/L		12/21/21 17:25	12/22/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 132*	*12/21/21 17:25*	*12/22/21 11:35*	*1*
2-Fluorobiphenyl (Surr)	*68*		*29 - 112*	*12/21/21 17:25*	*12/22/21 11:35*	*1*
2-Fluorophenol (Surr)	*58*		*21 - 114*	*12/21/21 17:25*	*12/22/21 11:35*	*1*
Nitrobenzene-d5 (Surr)	*74*		*26 - 110*	*12/21/21 17:25*	*12/22/21 11:35*	*1*
p-Terphenyl-d14 (Surr)	*67*		*20 - 141*	*12/21/21 17:25*	*12/22/21 11:35*	*1*
Phenol-d5 (Surr)	*60*		*16 - 117*	*12/21/21 17:25*	*12/22/21 11:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**0.817**		0.125	0.0261	mg/L		12/21/21 17:25	12/22/21 16:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*42*		*31 - 132*	*12/21/21 17:25*	*12/22/21 16:36*	*5*
2-Fluorobiphenyl (Surr)	*68*		*29 - 112*	*12/21/21 17:25*	*12/22/21 16:36*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 114*	*12/21/21 17:25*	*12/22/21 16:36*	*5*
Nitrobenzene-d5 (Surr)	*76*		*26 - 110*	*12/21/21 17:25*	*12/22/21 16:36*	*5*
p-Terphenyl-d14 (Surr)	*68*		*20 - 141*	*12/21/21 17:25*	*12/22/21 16:36*	*5*
Phenol-d5 (Surr)	*58*		*16 - 117*	*12/21/21 17:25*	*12/22/21 16:36*	*5*

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1

Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000355	U	0.00250	0.000355	mg/L		12/22/21 19:18	12/23/21 17:24	1
Endrin	0.0000151	U	0.0000500	0.0000151	mg/L		12/22/21 19:18	12/23/21 17:24	1
Heptachlor	0.0000161	U	0.0000500	0.0000161	mg/L		12/22/21 19:18	12/23/21 17:24	1
Heptachlor epoxide	0.00000991	U	0.0000500	0.0000099 1	mg/L		12/22/21 19:18	12/23/21 17:24	1
gamma-BHC (Lindane)	0.0000112	U	0.0000500	0.0000112	mg/L		12/22/21 19:18	12/23/21 17:24	1
Methoxychlor	0.000163	U	0.000200	0.000163	mg/L		12/22/21 19:18	12/23/21 17:24	1
Toxaphene	0.000624	U	0.00200	0.000624	mg/L		12/22/21 19:18	12/23/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*15 - 136*	*12/22/21 19:18*	*12/23/21 17:24*	*1*
Tetrachloro-m-xylene	*59*		*18 - 126*	*12/22/21 19:18*	*12/23/21 17:24*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0000257	U	0.000235	0.0000257	mg/L		12/22/21 11:37	12/22/21 21:58	1
2,4,5-TP (Silvex)	0.000103	U	0.000238	0.000103	mg/L		12/22/21 11:37	12/22/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*120*		*41 - 131*	*12/22/21 11:37*	*12/22/21 21:58*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0275	U	0.0500	0.0275	mg/L		01/04/22 09:30	01/05/22 16:17	1
Barium	**0.465**	**B**	0.0500	0.00674	mg/L		01/04/22 09:30	01/05/22 16:17	1
Cadmium	0.0122	U	0.0250	0.0122	mg/L		01/04/22 09:30	01/05/22 16:17	1
Chromium	0.00405	U	0.0500	0.00405	mg/L		01/04/22 09:30	01/05/22 16:17	1
Lead	0.0118	U	0.0500	0.0118	mg/L		01/04/22 09:30	01/05/22 16:17	1
Selenium	**0.0317**	**J**	0.150	0.0219	mg/L		01/04/22 09:30	01/05/22 16:17	1
Silver	0.0279	U	0.100	0.0279	mg/L		01/04/22 09:30	01/05/22 16:17	1
Copper	0.0272	U	0.100	0.0272	mg/L		01/04/22 09:30	01/05/22 16:17	1
Molybdenum	0.00613	U	0.0500	0.00613	mg/L		01/04/22 09:30	01/05/22 16:17	1
Nickel	**0.0197**	**J**	0.0500	0.0154	mg/L		01/04/22 09:30	01/05/22 16:17	1
Zinc	**1.47**	**B**	0.150	0.0195	mg/L		01/04/22 09:30	01/05/22 16:17	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		12/21/21 09:40	12/21/21 14:51	1

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1

Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34
Percent Solids: 14.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.528	U	2.23	0.528	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2
PCB-1221	0.528	U	2.23	0.528	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2
PCB-1232	0.528	U	2.23	0.528	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2
PCB-1242	0.528	U	2.23	0.528	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2
PCB-1248	0.528	U	2.23	0.528	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2
PCB-1254	0.349	U	2.23	0.349	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1
Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34
Percent Solids: 14.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.349	U	2.23	0.349	mg/Kg	☼	12/21/21 10:31	12/22/21 15:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*35 - 140*	*12/21/21 10:31*	*12/21/21 18:43*	*2*
Tetrachloro-m-xylene	*62*		*35 - 140*	*12/21/21 10:31*	*12/22/21 15:58*	*2*
DCB Decachlorobiphenyl (Surr)	*108*		*37 - 142*	*12/21/21 10:31*	*12/21/21 18:43*	*2*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 142*	*12/21/21 10:31*	*12/22/21 15:58*	*2*

Surrogate Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
LCS 860-35166/3	Lab Control Sample	102	104	110	99
LCSD 860-35166/4	Lab Control Sample Dup	103	102	107	102
MB 860-35166/9	Method Blank	103	109	110	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
840-675-1	LaVernia Drying Box	99	104	110	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(31-132)	(29-112)	(21-114)	(26-110)	(20-141)	(16-117)
LCS 860-35053/2-A	Lab Control Sample	96	101	88	100	106	80
LCSD 860-35053/3-A	Lab Control Sample Dup	96	104	91	106	102	85
MB 860-35053/13-A	Method Blank	66	88	76	107	91	69
MB 860-35053/1-A	Method Blank	85	100	83	108	112	76

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(31-132)	(29-112)	(21-114)	(26-110)	(20-141)	(16-117)
840-675-1 - DL	LaVernia Drying Box	42	68	58	76	68	58
840-675-1	LaVernia Drying Box	52	68	58	74	67	60
LB 860-35008/1-D	Method Blank	65	89	76	105	93	66

Surrogate Summary

Client: San Antonio River Authority
Project/Site: LaVernia WWTP Waste Characterization

Job ID: 840-675-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(15-136)	(18-126)								
LCS 860-35402/2-A	Lab Control Sample	79	52								
LCSD 860-35402/3-A	Lab Control Sample Dup	84	58								
MB 860-35402/1-A	Method Blank	78	62								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(15-136)	(18-126)								
840-675-1	LaVernia Drying Box	56	59								
LB 860-35008/1-F	Method Blank	79	58								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
840-675-1 - DL	LaVernia Drying Box	56	108								
840-675-1 - DL	LaVernia Drying Box	62	101								
LCS 860-35119/2-A	Lab Control Sample	80	92								
LCSD 860-35119/3-A	Lab Control Sample Dup	79	89								
MB 860-35119/1-A	Method Blank	79	86								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(41-131)									
LCS 860-35179/4-A	Lab Control Sample	125									
LCSD 860-35179/5-A	Lab Control Sample Dup	111									

Surrogate Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCPAA1								
Lab Sample ID	Client Sample ID	(41-131)								
MB 860-35179/3-A	Method Blank	88								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCPAA1								
Lab Sample ID	Client Sample ID	(41-131)								
840-675-1	LaVernia Drying Box	120								
LB 860-35008/1-C	Method Blank	123								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-35166/9
Matrix: Solid
Analysis Batch: 35166

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000214	U	0.00100	0.000214	mg/L			12/21/21 21:37	1
Carbon tetrachloride	0.000423	U	0.00500	0.000423	mg/L			12/21/21 21:37	1
Chlorobenzene	0.000159	U	0.00100	0.000159	mg/L			12/21/21 21:37	1
Chloroform	0.000259	U	0.00100	0.000259	mg/L			12/21/21 21:37	1
1,2-Dichloroethane	0.000285	U	0.00100	0.000285	mg/L			12/21/21 21:37	1
1,1-Dichloroethene	0.000216	U	0.00100	0.000216	mg/L			12/21/21 21:37	1
2-Butanone	0.00270	U	0.0500	0.00270	mg/L			12/21/21 21:37	1
Tetrachloroethene	0.000500	U	0.00100	0.000500	mg/L			12/21/21 21:37	1
Trichloroethene	0.000424	U	0.00500	0.000424	mg/L			12/21/21 21:37	1
Vinyl chloride	0.000234	U	0.00200	0.000234	mg/L			12/21/21 21:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*12/21/21 21:37*	*1*
4-Bromofluorobenzene (Surr)	*109*		*74 - 124*		*12/21/21 21:37*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 131*		*12/21/21 21:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 117*		*12/21/21 21:37*	*1*

Lab Sample ID: LCS 860-35166/3
Matrix: Solid
Analysis Batch: 35166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05120		mg/L		102	66 - 142		
Carbon tetrachloride			0.0500	0.05643		mg/L		113	62 - 125		
Chlorobenzene			0.0500	0.05128		mg/L		103	60 - 133		
Chloroform			0.0500	0.05877		mg/L		118	70 - 130		
1,2-Dichloroethane			0.0500	0.05486		mg/L		110	68 - 127		
1,1-Dichloroethene			0.0500	0.05012		mg/L		100	59 - 172		
2-Butanone			0.250	0.2861		mg/L		114	60 - 140		
Tetrachloroethene			0.0500	0.05277		mg/L		106	71 - 125		
Trichloroethene			0.0500	0.05101		mg/L		102	62 - 137		
Vinyl chloride			0.0500	0.05621		mg/L		112	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*
Dibromofluoromethane (Surr)	*110*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 117*

Lab Sample ID: LCSD 860-35166/4
Matrix: Solid
Analysis Batch: 35166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05039		mg/L		101	66 - 142	2	25
Carbon tetrachloride			0.0500	0.05569		mg/L		111	62 - 125	1	25
Chlorobenzene			0.0500	0.05180		mg/L		104	60 - 133	1	25
Chloroform			0.0500	0.05618		mg/L		112	70 - 130	5	25

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-35166/4
Matrix: Solid
Analysis Batch: 35166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane			0.0500	0.05346		mg/L		107	68 - 127	3	25
1,1-Dichloroethene			0.0500	0.04787		mg/L		96	59 - 172	5	25
2-Butanone			0.250	0.2495		mg/L		100	60 - 140	14	25
Tetrachloroethene			0.0500	0.05154		mg/L		103	71 - 125	2	25
Trichloroethene			0.0500	0.04976		mg/L		100	62 - 137	2	25
Vinyl chloride			0.0500	0.05208		mg/L		104	60 - 140	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*75 - 131*
Toluene-d8 (Surr)	*102*		*80 - 117*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-35053/13-A
Matrix: Solid
Analysis Batch: 35254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00325	U	0.0250	0.00325	mg/L		12/21/21 17:19	12/22/21 10:34	1
2,4,5-Trichlorophenol	0.00468	U	0.0250	0.00468	mg/L		12/21/21 17:19	12/22/21 10:34	1
2,4,6-Trichlorophenol	0.00473	U	0.0250	0.00473	mg/L		12/21/21 17:19	12/22/21 10:34	1
2,4-Dinitrotoluene	0.00477	U	0.0250	0.00477	mg/L		12/21/21 17:19	12/22/21 10:34	1
2-Methylphenol	0.00457	U	0.0250	0.00457	mg/L		12/21/21 17:19	12/22/21 10:34	1
Hexachlorobenzene	0.00537	U	0.0250	0.00537	mg/L		12/21/21 17:19	12/22/21 10:34	1
Hexachlorobutadiene	0.00355	U	0.0250	0.00355	mg/L		12/21/21 17:19	12/22/21 10:34	1
Hexachloroethane	0.00393	U	0.0250	0.00393	mg/L		12/21/21 17:19	12/22/21 10:34	1
Nitrobenzene	0.00480	U	0.0250	0.00480	mg/L		12/21/21 17:19	12/22/21 10:34	1
Pentachlorophenol	0.00558	U	0.0500	0.00558	mg/L		12/21/21 17:19	12/22/21 10:34	1
Pyridine	0.00244	U	0.0500	0.00244	mg/L		12/21/21 17:19	12/22/21 10:34	1
3 & 4 Methylphenol	0.00521	U	0.0250	0.00521	mg/L		12/21/21 17:19	12/22/21 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*31 - 132*	*12/21/21 17:19*	*12/22/21 10:34*	*1*
2-Fluorobiphenyl (Surr)	*88*		*29 - 112*	*12/21/21 17:19*	*12/22/21 10:34*	*1*
2-Fluorophenol (Surr)	*76*		*21 - 114*	*12/21/21 17:19*	*12/22/21 10:34*	*1*
Nitrobenzene-d5 (Surr)	*107*		*26 - 110*	*12/21/21 17:19*	*12/22/21 10:34*	*1*
p-Terphenyl-d14 (Surr)	*91*		*20 - 141*	*12/21/21 17:19*	*12/22/21 10:34*	*1*
Phenol-d5 (Surr)	*69*		*16 - 117*	*12/21/21 17:19*	*12/22/21 10:34*	*1*

Lab Sample ID: MB 860-35053/1-A
Matrix: Solid
Analysis Batch: 35075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00325	U	0.0250	0.00325	mg/L		12/20/21 18:44	12/21/21 10:32	1
2,4,5-Trichlorophenol	0.00468	U	0.0250	0.00468	mg/L		12/20/21 18:44	12/21/21 10:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-35053/1-A
Matrix: Solid
Analysis Batch: 35075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.00473	U	0.0250	0.00473	mg/L		12/20/21 18:44	12/21/21 10:32	1
2,4-Dinitrotoluene	0.00477	U	0.0250	0.00477	mg/L		12/20/21 18:44	12/21/21 10:32	1
2-Methylphenol	0.00457	U	0.0250	0.00457	mg/L		12/20/21 18:44	12/21/21 10:32	1
Hexachlorobenzene	0.00537	U	0.0250	0.00537	mg/L		12/20/21 18:44	12/21/21 10:32	1
Hexachlorobutadiene	0.00355	U	0.0250	0.00355	mg/L		12/20/21 18:44	12/21/21 10:32	1
Hexachloroethane	0.00393	U	0.0250	0.00393	mg/L		12/20/21 18:44	12/21/21 10:32	1
Nitrobenzene	0.00480	U	0.0250	0.00480	mg/L		12/20/21 18:44	12/21/21 10:32	1
Pentachlorophenol	0.00558	U	0.0500	0.00558	mg/L		12/20/21 18:44	12/21/21 10:32	1
Pyridine	0.00244	U	0.0500	0.00244	mg/L		12/20/21 18:44	12/21/21 10:32	1
3 & 4 Methylphenol	0.00521	U	0.0250	0.00521	mg/L		12/20/21 18:44	12/21/21 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*31 - 132*	*12/20/21 18:44*	*12/21/21 10:32*	*1*
2-Fluorobiphenyl (Surr)	*100*		*29 - 112*	*12/20/21 18:44*	*12/21/21 10:32*	*1*
2-Fluorophenol (Surr)	*83*		*21 - 114*	*12/20/21 18:44*	*12/21/21 10:32*	*1*
Nitrobenzene-d5 (Surr)	*108*		*26 - 110*	*12/20/21 18:44*	*12/21/21 10:32*	*1*
p-Terphenyl-d14 (Surr)	*112*		*20 - 141*	*12/20/21 18:44*	*12/21/21 10:32*	*1*
Phenol-d5 (Surr)	*76*		*16 - 117*	*12/20/21 18:44*	*12/21/21 10:32*	*1*

Lab Sample ID: LCS 860-35053/2-A
Matrix: Solid
Analysis Batch: 35075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.200	0.1612		mg/L		81	37 - 111
2,4,5-Trichlorophenol	0.200	0.2061		mg/L		103	39 - 125
2,4,6-Trichlorophenol	0.200	0.2038		mg/L		102	42 - 125
2,4-Dinitrotoluene	0.200	0.2119		mg/L		106	41 - 128
2-Methylphenol	0.200	0.1934		mg/L		97	36 - 105
Hexachlorobenzene	0.200	0.1908		mg/L		95	39 - 128
Hexachlorobutadiene	0.200	0.1737		mg/L		87	31 - 120
Hexachloroethane	0.200	0.1610		mg/L		80	37 - 109
Nitrobenzene	0.200	0.2053		mg/L		103	37 - 114
Pentachlorophenol	0.200	0.1478		mg/L		74	10 - 137
Pyridine	0.200	0.07719		mg/L		39	16 - 135
3 & 4 Methylphenol	0.200	0.2000		mg/L		100	35 - 116

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*96*		*31 - 132*
2-Fluorobiphenyl (Surr)	*101*		*29 - 112*
2-Fluorophenol (Surr)	*88*		*21 - 114*
Nitrobenzene-d5 (Surr)	*100*		*26 - 110*
p-Terphenyl-d14 (Surr)	*106*		*20 - 141*
Phenol-d5 (Surr)	*80*		*16 - 117*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-35053/3-A
Matrix: Solid
Analysis Batch: 35075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35053

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.200	0.1709		mg/L		85	37 - 111	6	30
2,4,5-Trichlorophenol			0.200	0.2066		mg/L		103	39 - 125	0	30
2,4,6-Trichlorophenol			0.200	0.2074		mg/L		104	42 - 125	2	30
2,4-Dinitrotoluene			0.200	0.2225		mg/L		111	41 - 128	5	30
2-Methylphenol			0.200	0.1969		mg/L		98	36 - 105	2	30
Hexachlorobenzene			0.200	0.1866		mg/L		93	39 - 128	2	30
Hexachlorobutadiene			0.200	0.1740		mg/L		87	31 - 120	0	30
Hexachloroethane			0.200	0.1778		mg/L		89	37 - 109	10	30
Nitrobenzene			0.200	0.2195		mg/L		110	37 - 114	7	30
Pentachlorophenol			0.200	0.1531		mg/L		77	10 - 137	4	40
Pyridine			0.200	0.1350	*1	mg/L		67	16 - 135	54	40
3 & 4 Methylphenol			0.200	0.2075		mg/L		104	35 - 116	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*96*		*31 - 132*
2-Fluorobiphenyl (Surr)	*104*		*29 - 112*
2-Fluorophenol (Surr)	*91*		*21 - 114*
Nitrobenzene-d5 (Surr)	*106*		*26 - 110*
p-Terphenyl-d14 (Surr)	*102*		*20 - 141*
Phenol-d5 (Surr)	*85*		*16 - 117*

Lab Sample ID: LB 860-35008/1-D
Matrix: Solid
Analysis Batch: 35254

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 35053

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00325	U	0.0250	0.00325	mg/L		12/21/21 17:22	12/22/21 10:55	1
2,4,5-Trichlorophenol	0.00468	U	0.0250	0.00468	mg/L		12/21/21 17:22	12/22/21 10:55	1
2,4,6-Trichlorophenol	0.00473	U	0.0250	0.00473	mg/L		12/21/21 17:22	12/22/21 10:55	1
2,4-Dinitrotoluene	0.00477	U	0.0250	0.00477	mg/L		12/21/21 17:22	12/22/21 10:55	1
2-Methylphenol	0.00457	U	0.0250	0.00457	mg/L		12/21/21 17:22	12/22/21 10:55	1
Hexachlorobenzene	0.00537	U	0.0250	0.00537	mg/L		12/21/21 17:22	12/22/21 10:55	1
Hexachlorobutadiene	0.00355	U	0.0250	0.00355	mg/L		12/21/21 17:22	12/22/21 10:55	1
Hexachloroethane	0.00393	U	0.0250	0.00393	mg/L		12/21/21 17:22	12/22/21 10:55	1
Nitrobenzene	0.00480	U	0.0250	0.00480	mg/L		12/21/21 17:22	12/22/21 10:55	1
Pentachlorophenol	0.00558	U	0.0500	0.00558	mg/L		12/21/21 17:22	12/22/21 10:55	1
Pyridine	0.00244	U	0.0500	0.00244	mg/L		12/21/21 17:22	12/22/21 10:55	1
3 & 4 Methylphenol	0.00521	U	0.0250	0.00521	mg/L		12/21/21 17:22	12/22/21 10:55	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 132*	*12/21/21 17:22*	*12/22/21 10:55*	*1*
2-Fluorobiphenyl (Surr)	*89*		*29 - 112*	*12/21/21 17:22*	*12/22/21 10:55*	*1*
2-Fluorophenol (Surr)	*76*		*21 - 114*	*12/21/21 17:22*	*12/22/21 10:55*	*1*
Nitrobenzene-d5 (Surr)	*105*		*26 - 110*	*12/21/21 17:22*	*12/22/21 10:55*	*1*
p-Terphenyl-d14 (Surr)	*93*		*20 - 141*	*12/21/21 17:22*	*12/22/21 10:55*	*1*
Phenol-d5 (Surr)	*66*		*16 - 117*	*12/21/21 17:22*	*12/22/21 10:55*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-35402/1-A
Matrix: Solid
Analysis Batch: 35423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000355	U	0.00250	0.000355	mg/L		12/22/21 18:24	12/23/21 10:20	1
Endrin	0.0000151	U	0.0000500	0.0000151	mg/L		12/22/21 18:24	12/23/21 10:20	1
Heptachlor	0.0000161	U	0.0000500	0.0000161	mg/L		12/22/21 18:24	12/23/21 10:20	1
Heptachlor epoxide	0.00000991	U	0.0000500	0.0000099 1	mg/L		12/22/21 18:24	12/23/21 10:20	1
gamma-BHC (Lindane)	0.0000112	U	0.0000500	0.0000112	mg/L		12/22/21 18:24	12/23/21 10:20	1
Methoxychlor	0.000163	U	0.000200	0.000163	mg/L		12/22/21 18:24	12/23/21 10:20	1
Toxaphene	0.000624	U	0.00200	0.000624	mg/L		12/22/21 18:24	12/23/21 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*15 - 136*	*12/22/21 18:24*	*12/23/21 10:20*	*1*
Tetrachloro-m-xylene	*62*		*18 - 126*	*12/22/21 18:24*	*12/23/21 10:20*	*1*

Lab Sample ID: LCS 860-35402/2-A
Matrix: Solid
Analysis Batch: 35423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.00100	0.0006892		mg/L		69	14 - 169		
Heptachlor			0.00100	0.0005701		mg/L		57	10 - 157		
Heptachlor epoxide			0.00100	0.0007390		mg/L		74	15 - 155		
gamma-BHC (Lindane)			0.00100	0.0006956		mg/L		70	8 - 157		
Methoxychlor			0.00100	0.0007198		mg/L		72	25 - 161		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*15 - 136*
Tetrachloro-m-xylene	*52*		*18 - 126*

Lab Sample ID: LCSD 860-35402/3-A
Matrix: Solid
Analysis Batch: 35423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35402

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.00100	0.0007248		mg/L		72	14 - 169	5	25
Heptachlor			0.00100	0.0006252		mg/L		63	10 - 157	9	25
Heptachlor epoxide			0.00100	0.0008008		mg/L		80	15 - 155	8	25
gamma-BHC (Lindane)			0.00100	0.0007745		mg/L		77	8 - 157	11	25
Methoxychlor			0.00100	0.0007597		mg/L		76	25 - 161	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*15 - 136*
Tetrachloro-m-xylene	*58*		*18 - 126*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-35008/1-F
Matrix: Solid
Analysis Batch: 35423

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 35402

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	0.000355	U	0.00250	0.000355	mg/L		12/22/21 18:36	12/23/21 11:16	1
Endrin	0.0000151	U	0.0000500	0.0000151	mg/L		12/22/21 18:36	12/23/21 11:16	1
Heptachlor	0.0000161	U	0.0000500	0.0000161	mg/L		12/22/21 18:36	12/23/21 11:16	1
Heptachlor epoxide	0.00000991	U	0.0000500	0.0000099 1	mg/L		12/22/21 18:36	12/23/21 11:16	1
gamma-BHC (Lindane)	0.0000112	U	0.0000500	0.0000112	mg/L		12/22/21 18:36	12/23/21 11:16	1
Methoxychlor	0.000163	U	0.000200	0.000163	mg/L		12/22/21 18:36	12/23/21 11:16	1
Toxaphene	0.000624	U	0.00200	0.000624	mg/L		12/22/21 18:36	12/23/21 11:16	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*15 - 136*	*12/22/21 18:36*	*12/23/21 11:16*	*1*
Tetrachloro-m-xylene	*58*		*18 - 126*	*12/22/21 18:36*	*12/23/21 11:16*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-35119/1-A
Matrix: Solid
Analysis Batch: 35159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00790	U	0.0333	0.00790	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1221	0.00790	U	0.0333	0.00790	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1232	0.00790	U	0.0333	0.00790	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1242	0.00790	U	0.0333	0.00790	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1248	0.00790	U	0.0333	0.00790	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1254	0.00521	U	0.0333	0.00521	mg/Kg		12/21/21 10:31	12/21/21 15:31	1
PCB-1260	0.00521	U	0.0333	0.00521	mg/Kg		12/21/21 10:31	12/21/21 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 140*	*12/21/21 10:31*	*12/21/21 15:31*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*	*12/21/21 10:31*	*12/21/21 15:31*	*1*

Lab Sample ID: LCS 860-35119/2-A
Matrix: Solid
Analysis Batch: 35159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35119

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.333	0.2986		mg/Kg		90	27 - 121		
PCB-1260			0.333	0.3234		mg/Kg		97	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-35119/3-A
Matrix: Solid
Analysis Batch: 35159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35119

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.333	0.2930		mg/Kg		88	27 - 121	2	20
PCB-1260			0.333	0.3473		mg/Kg		104	27 - 139	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 142*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 860-35179/3-A
Matrix: Solid
Analysis Batch: 35377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0000206	U	0.000188	0.0000206	mg/L		12/22/21 11:01	12/22/21 18:02	1
2,4,5-TP (Silvex)	0.0000823	U	0.000190	0.0000823	mg/L		12/22/21 11:01	12/22/21 18:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*88*		*41 - 131*	*12/22/21 11:01*	*12/22/21 18:02*	*1*

Lab Sample ID: LCS 860-35179/4-A
Matrix: Solid
Analysis Batch: 35377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35179

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D			0.00100	0.0009984		mg/L		100	10 - 189
2,4,5-TP (Silvex)			0.00100	0.001012		mg/L		101	32 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*125*		*41 - 131*

Lab Sample ID: LCSD 860-35179/5-A
Matrix: Solid
Analysis Batch: 35377

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35179

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00100	0.0008346		mg/L		83	10 - 189	18	25
2,4,5-TP (Silvex)			0.00100	0.001030		mg/L		103	32 - 140	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*111*		*41 - 131*

Lab Sample ID: LB 860-35008/1-C
Matrix: Solid
Analysis Batch: 35377

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 35179

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0000257	U	0.000235	0.0000257	mg/L		12/22/21 10:58	12/22/21 17:45	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LB 860-35008/1-C
Matrix: Solid
Analysis Batch: 35377

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 35179

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	0.000103	U	0.000238	0.000103	mg/L		12/22/21 10:58	12/22/21 17:45	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*123*		*41 - 131*	*12/22/21 10:58*	*12/22/21 17:45*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-36344/1-A
Matrix: Solid
Analysis Batch: 36653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00550	U	0.0100	0.00550	mg/L		01/04/22 09:30	01/05/22 15:30	1
Barium	0.00135	U	0.0100	0.00135	mg/L		01/04/22 09:30	01/05/22 15:30	1
Cadmium	0.00243	U	0.00500	0.00243	mg/L		01/04/22 09:30	01/05/22 15:30	1
Chromium	0.000811	U	0.0100	0.000811	mg/L		01/04/22 09:30	01/05/22 15:30	1
Lead	0.00237	U	0.0100	0.00237	mg/L		01/04/22 09:30	01/05/22 15:30	1
Selenium	0.00439	U	0.0300	0.00439	mg/L		01/04/22 09:30	01/05/22 15:30	1
Silver	0.00559	U	0.0200	0.00559	mg/L		01/04/22 09:30	01/05/22 15:30	1
Copper	0.00544	U	0.0200	0.00544	mg/L		01/04/22 09:30	01/05/22 15:30	1
Molybdenum	0.001839	J	0.0100	0.00123	mg/L		01/04/22 09:30	01/05/22 15:30	1
Nickel	0.00307	U	0.0100	0.00307	mg/L		01/04/22 09:30	01/05/22 15:30	1
Zinc	0.00391	U	0.0300	0.00391	mg/L		01/04/22 09:30	01/05/22 15:30	1

Lab Sample ID: LCS 860-36344/2-A
Matrix: Solid
Analysis Batch: 36653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.9896		mg/L		99	80 - 120
Barium	1.00	0.9836		mg/L		98	80 - 120
Cadmium	1.00	0.9857		mg/L		99	80 - 120
Chromium	1.00	1.011		mg/L		101	80 - 120
Lead	1.00	1.013		mg/L		101	80 - 120
Selenium	1.00	1.006		mg/L		101	80 - 120
Silver	0.500	0.4903		mg/L		98	80 - 120
Copper	1.00	0.9891		mg/L		99	80 - 120
Molybdenum	1.00	1.006		mg/L		101	80 - 120
Nickel	1.00	1.008		mg/L		101	80 - 120
Zinc	1.00	1.011		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-36344/3-A
Matrix: Solid
Analysis Batch: 36653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36344

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	0.9841		mg/L		98	80 - 120	1	20
Barium	1.00	0.9874		mg/L		99	80 - 120	0	20
Cadmium	1.00	0.9953		mg/L		100	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-36344/3-A
Matrix: Solid
Analysis Batch: 36653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36344

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	1.016		mg/L		102	80 - 120	1	20
Lead	1.00	1.016		mg/L		102	80 - 120	0	20
Selenium	1.00	1.016		mg/L		102	80 - 120	1	20
Silver	0.500	0.4916		mg/L		98	80 - 120	0	20
Copper	1.00	0.9953		mg/L		100	80 - 120	1	20
Molybdenum	1.00	1.009		mg/L		101	80 - 120	0	20
Nickel	1.00	1.015		mg/L		102	80 - 120	1	20
Zinc	1.00	1.015		mg/L		101	80 - 120	0	20

Lab Sample ID: LB 860-35008/1-K
Matrix: Solid
Analysis Batch: 36653

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 36344

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0275	U	0.0500	0.0275	mg/L		01/04/22 09:30	01/05/22 15:41	1
Barium	0.04668	J	0.0500	0.00674	mg/L		01/04/22 09:30	01/05/22 15:41	1
Cadmium	0.0122	U	0.0250	0.0122	mg/L		01/04/22 09:30	01/05/22 15:41	1
Chromium	0.00405	U	0.0500	0.00405	mg/L		01/04/22 09:30	01/05/22 15:41	1
Lead	0.0118	U	0.0500	0.0118	mg/L		01/04/22 09:30	01/05/22 15:41	1
Selenium	0.0219	U	0.150	0.0219	mg/L		01/04/22 09:30	01/05/22 15:41	1
Silver	0.0279	U	0.100	0.0279	mg/L		01/04/22 09:30	01/05/22 15:41	1
Copper	0.0272	U	0.100	0.0272	mg/L		01/04/22 09:30	01/05/22 15:41	1
Molybdenum	0.00613	U	0.0500	0.00613	mg/L		01/04/22 09:30	01/05/22 15:41	1
Nickel	0.0154	U	0.0500	0.0154	mg/L		01/04/22 09:30	01/05/22 15:41	1
Zinc	0.03236	J	0.150	0.0195	mg/L		01/04/22 09:30	01/05/22 15:41	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-35088/10-A
Matrix: Solid
Analysis Batch: 35174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		12/21/21 09:40	12/21/21 14:24	1

Lab Sample ID: LCS 860-35088/11-A
Matrix: Solid
Analysis Batch: 35174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.001916		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-35088/12-A
Matrix: Solid
Analysis Batch: 35174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.001932		mg/L		97	80 - 120	1	20

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 860-35008/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 35174
Prep Batch: 35088

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		12/21/21 09:40	12/21/21 14:29	1

GC/MS VOA

Leach Batch: 35095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	1311	

Analysis Batch: 35166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	8260C	35095
MB 860-35166/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-35166/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35166/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 35008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	1311	
840-675-1 - DL	LaVernia Drying Box	TCLP	Solid	1311	
LB 860-35008/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 35053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1 - DL	LaVernia Drying Box	TCLP	Solid	3510C	35008
840-675-1	LaVernia Drying Box	TCLP	Solid	3510C	35008
LB 860-35008/1-D	Method Blank	TCLP	Solid	3510C	35008
MB 860-35053/13-A	Method Blank	Total/NA	Solid	3510C	
MB 860-35053/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 860-35053/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 860-35053/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 35075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-35053/1-A	Method Blank	Total/NA	Solid	8270D	35053
LCS 860-35053/2-A	Lab Control Sample	Total/NA	Solid	8270D	35053
LCSD 860-35053/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	35053

Analysis Batch: 35254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	8270D	35053
840-675-1 - DL	LaVernia Drying Box	TCLP	Solid	8270D	35053
LB 860-35008/1-D	Method Blank	TCLP	Solid	8270D	35053
MB 860-35053/13-A	Method Blank	Total/NA	Solid	8270D	35053

GC Semi VOA

Leach Batch: 35008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	1311	
LB 860-35008/1-C	Method Blank	TCLP	Solid	1311	
LB 860-35008/1-F	Method Blank	TCLP	Solid	1311	

Analysis Batch: 35083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1 - DL	LaVernia Drying Box	Total/NA	Solid	8082A	35119

GC Semi VOA

Prep Batch: 35119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1 - DL	LaVernia Drying Box	Total/NA	Solid	3546	
MB 860-35119/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-35119/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-35119/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 35159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-35119/1-A	Method Blank	Total/NA	Solid	8082A	35119
LCS 860-35119/2-A	Lab Control Sample	Total/NA	Solid	8082A	35119
LCSD 860-35119/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	35119

Prep Batch: 35179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	8151A	35008
LB 860-35008/1-C	Method Blank	TCLP	Solid	8151A	35008
MB 860-35179/3-A	Method Blank	Total/NA	Solid	8151A	
LCS 860-35179/4-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 860-35179/5-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 35246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1 - DL	LaVernia Drying Box	Total/NA	Solid	8082A	35119

Analysis Batch: 35377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	8151A	35179
LB 860-35008/1-C	Method Blank	TCLP	Solid	8151A	35179
MB 860-35179/3-A	Method Blank	Total/NA	Solid	8151A	35179
LCS 860-35179/4-A	Lab Control Sample	Total/NA	Solid	8151A	35179
LCSD 860-35179/5-A	Lab Control Sample Dup	Total/NA	Solid	8151A	35179

Prep Batch: 35402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	3510C	35008
LB 860-35008/1-F	Method Blank	TCLP	Solid	3510C	35008
MB 860-35402/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 860-35402/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 860-35402/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 35423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	8081B	35402
LB 860-35008/1-F	Method Blank	TCLP	Solid	8081B	35402
MB 860-35402/1-A	Method Blank	Total/NA	Solid	8081B	35402
LCS 860-35402/2-A	Lab Control Sample	Total/NA	Solid	8081B	35402
LCSD 860-35402/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	35402

QC Association Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Metals

Leach Batch: 35008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	1311	
LB 860-35008/1-B	Method Blank	TCLP	Solid	1311	
LB 860-35008/1-K	Method Blank	TCLP	Solid	1311	

Prep Batch: 35088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	7470A	35008
LB 860-35008/1-B	Method Blank	TCLP	Solid	7470A	35008
MB 860-35088/10-A	Method Blank	Total/NA	Solid	7470A	
LCS 860-35088/11-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 860-35088/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 35174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	7470A	35088
LB 860-35008/1-B	Method Blank	TCLP	Solid	7470A	35088
MB 860-35088/10-A	Method Blank	Total/NA	Solid	7470A	35088
LCS 860-35088/11-A	Lab Control Sample	Total/NA	Solid	7470A	35088
LCSD 860-35088/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	35088

Prep Batch: 36344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	3010A	35008
LB 860-35008/1-K	Method Blank	TCLP	Solid	3010A	35008
MB 860-36344/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-36344/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-36344/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 36653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	TCLP	Solid	6010C	36344
LB 860-35008/1-K	Method Blank	TCLP	Solid	6010C	36344
MB 860-36344/1-A	Method Blank	Total/NA	Solid	6010C	36344
LCS 860-36344/2-A	Lab Control Sample	Total/NA	Solid	6010C	36344
LCSD 860-36344/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	36344

General Chemistry

Analysis Batch: 35540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-675-1	LaVernia Drying Box	Total/NA	Solid	Moisture	
MB 860-35540/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1

Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	35095	12/20/21 16:20	JRB	XEN STF
TCLP	Analysis	8260C		50	5 mL	5 mL	35166	12/22/21 03:57	T1S	XEN STF
TCLP	Leach	1311			1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	3510C			200 mL	1 mL	35053	12/21/21 17:25	MR	XEN STF
TCLP	Analysis	8270D		1			35254	12/22/21 11:35	ELJ	XEN STF
TCLP	Leach	1311	DL		1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	3510C	DL		200 mL	1 mL	35053	12/21/21 17:25	MR	XEN STF
TCLP	Analysis	8270D	DL	5			35254	12/22/21 16:36	ELJ	XEN STF
TCLP	Leach	1311			1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	3510C			200 mL	2 mL	35402	12/22/21 19:18	MR	XEN STF
TCLP	Analysis	8081B		1			35423	12/23/21 17:24	KM	XEN STF
TCLP	Leach	1311			1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	8151A			200 mL	1.0 mL	35179	12/22/21 11:37	MG	XEN STF
TCLP	Analysis	8151A		1			35377	12/22/21 21:58	JAL	XEN STF
TCLP	Leach	1311			1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	3010A			10 mL	50 mL	36344	01/04/22 09:30	MD	XEN STF
TCLP	Analysis	6010C		1			36653	01/05/22 16:17	AV	XEN STF
TCLP	Leach	1311			1.0 g	1.0 mL	35008	12/20/21 13:00	EMC	XEN STF
TCLP	Prep	7470A			50 mL	50 mL	35088	12/21/21 09:40	AGR	XEN STF
TCLP	Analysis	7470A		1			35174	12/21/21 14:51	SHZ	XEN STF
Total/NA	Analysis	Moisture		1			35540	12/23/21 14:09	BM	XEN STF

Client Sample ID: LaVernia Drying Box
Lab Sample ID: 840-675-1

Date Collected: 12/16/21 14:20
Matrix: Solid
Date Received: 12/17/21 13:34
Percent Solids: 14.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		3.01 g	5 mL	35119	12/21/21 10:31	JN	XEN STF
Total/NA	Analysis	8082A	DL	2			35083	12/21/21 18:43	KM	XEN STF
Total/NA	Prep	3546	DL		3.01 g	5 mL	35119	12/21/21 10:31	JN	XEN STF
Total/NA	Analysis	8082A	DL	2			35246	12/22/21 15:58	JAL	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Laboratory: Eurofins Xenco

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Method Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8151A	Herbicides (GC)	SW846	XEN STF
6010C	Metals (ICP)	SW846	XEN STF
7470A	Mercury (CVAA)	SW846	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
1311	TCLP Extraction	SW846	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	XEN STF
3546	Microwave Extraction	SW846	XEN STF
5030C	Purge and Trap	SW846	XEN STF
7470A	Preparation, Mercury	SW846	XEN STF
8151A	Extraction (Herbicides)	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: San Antonio River Authority
Job ID: 840-675-1
Project/Site: LaVernia WWTP Waste Characterization

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
840-675-1	LaVernia Drying Box	Solid	12/16/21 14:20	12/17/21 13:34

Eurofins Xenco, San Antonio
5309 Wurzbach Rd. #119
San Antonio, TX 78238
Phone: 210-509-3334

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Vann, Irene	Carrier Tracking No(s):	COC No: 840-529.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: irene.vann@eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP Texas		Job #: 840-675-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/21/2021			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: LaVernia WWTP Waste Characterization	Project #: 84000177			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/1311_Z TCLP VOCs	8270D/1311_T TCLP SVOCs	6010C/1311T_M (MOD) RCRA 8 (excl. Hg)	7470A/1311T_Hg Mercury	8081B/1311_T TCLP Pesticides	8151A/1311_T TCLP Herbicides	8082A/3648 Standard PCBs	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
LaVernia Drying Box (840-675-1)	12/16/21	14:20 Central		Solid			X	X	X	X	X	X	X	X		

Temp: 3.8 IR ID-HOU-223
C/F +0.0
Corrected Temp: 3.8

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lauren Vann	12/17/21 17:00	Xenco	Eddy		
2	Eddy			Eddy	12/17/21 1212	ER
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 840-675-1

Login Number: 675

List Source: Eurofins Xenco

List Number: 1

Creator: Vann, Irene

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	False	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: San Antonio River Authority

Job Number: 840-675-1

Login Number: 675
List Number: 2
Creator: Milone, Jeancarlo

List Source: Eurofins Xenco
List Creation: 12/20/21 10:31 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Henrietta Turner Floresville, City of 1120 D Street Floresville, TX 78114	$ Project Name: Sample ID: Sludge Semi-Solid Matrix: Soil Date/Time Taken: 09/08/2020 1020	**PCS Sample #: 608425** **Page 1 of 1** Date/Time Received: 09/08/2020 11:35 Report Date: 09/29/2020 Approved by: Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
pH		7.1	S.U.	N/A	09/10/2020 15:40	SW846 9045	CML
Paint Filter Test	!	Passed	–	N/A	09/10/2020 08:15	SW846 9095	GWF
TCLP-Full		See Attached					Pace Analytical Services - Dallas
PCB, Total		See Attached					Pace Analytical Services - Dallas
Total Solids		15.7	%	0.10	09/15/2020 16:00	SM 2540 G	CFS
Flash Point		See Attached					Pace Analytical Services - Dallas

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit
pH	N/A	N/A	N/A			N/A		
Paint Filter Test	N/A	N/A	N/A			N/A		
TCLP-Full	See Attached Report for Quality Assurance Information							
PCB, Total	See Attached Report for Quality Assurance Information							
Total Solids	<1	12	N/A			N/A		
Flash Point	See Attached Report for Quality Assurance Information							

Quality Statement: ***All supporting quality control 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.***

$Reported on a Dry Weight Basis

! *Not NELAP Certifiable Parameter*

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

Web Site: www.pcslab.net
e-mail: chuck@pcslab.net
Toll Free 800-880-4616
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
210-340-0343
FAX # 210-658-7903

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POLLUTION CONTROL SERVICES

Chain of Custody Number: 508425

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

Stamp 1st sample and COC as same number

CUSTOMER INFORMATION

Name: City of Floresville

REPORT INFORMATION

Attention: David Inouye | Phone: (830) 393-3105 | Fax: (830) 393-2056

SAMPLE INFORMATION

Project Information:

Report "Soils" ☐ As Is ☐ Dry Wt.

Collected By: David Inouye

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	Container: Preservative	TCLP-Full	PH, PFT	Total Solids	Flash Point	PCBs				Instructions/Comments:
Sludge Semi- Solid	Start: 9/8/20	Start: 10:20am		☐C ■G	☐ DW ☐ NPW ☐ WW ☐ Soil ■ Sludge ☐ LW ☐ Other	☑P ☐G ☐O	1	☐ H_2SO_4 ☐ HNO_3 ☐ H_3PO_4 ☐ NaOH ☑ ICE ☐	★	★	★	★	★				PCS Sample Number 508425
	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:
	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:	David Inouye	Date: 9/8/20	Time: 10:31am	Received By:		Date: 9/8/20	Time: 10:31 AM
Relinquished By:		Date: 9/9/20	Time: 11:35	Received By:		Date: 9/8/20	Time: 1135

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

Login at www.pcslab.net

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: Pace Analytical Services, Inc.
400 W Bethany Rd, Ste 190
Allen, TX 75013

Relinquished by: Greg Felux
Date/Time: 9/9/2020 @ 1700
Received by: T Robinson Pace
Date/Time: 9/10/20 0904

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
608425	09/08/2020	1020	Flash Point; PCB 001 ↓	ICE	Std
608425	----------	----	TCLP-Full	I	---

WO#: 75139987
PM: MLM Due Date: 09/24/20
CLIENT: PCS

Comments/Special Instructions:
Project:

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: 9/9/20

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

September 24, 2020

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

RE: Project: 608425
Pace Project No.: 75139987

Dear Chuck Wallgren:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Gulf Coast
- Pace Analytical Services - Dallas

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melissa McCullough

Melissa McCullough
melissa.mccullough@pacelabs.com
(972)727-1123
Project Manager

Enclosures

cc: Michael Klang, Pollution Control Services
Office Manager

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

CERTIFICATIONS

Project: 608425
Pace Project No.: 75139987

Pace Analytical Services Dallas
Texas Certification T104704232-20-32
400 West Bethany Dr Suite 190, Allen, TX 75013
Florida Certification #: E871118
EPA# TX00074
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 8727
Louisiana Certification #: 30686
Iowa Certification #: 408

Pace Analytical Gulf Coast
7979 Innovation Park Drive, Baton Rouge, LA 70820
Arkansas Certification #: 88-0655
DoD ELAP Certification #: L18-597
Florida Certification #: E87854
Illinois Certification #: 004585
Kansas Certification #: E-10354
Louisiana/LELAP Certification #: 01955
North Carolina Certification #: 618
North Dakota Certification #: R-195
Oklahoma Certification #: 2019-101
South Carolina Certification #: 73006001
Texas Certification #: T104704178-19-11
USDA Soil Permit # P330-19-00209
Virginia Certification #: 460215
Washington Certification #: C929

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(972)727-1123

SAMPLE SUMMARY

Project: 608425
Pace Project No.: 75139987

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75139987001	608425	Solid	09/08/20 10:20	09/10/20 09:04

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 608425
Pace Project No.: 75139987

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75139987001	**608425**	EPA 8082	MFS	9	GCLA
		EPA 8081	DAT	9	PASI-D
		EPA 8151	DAT	3	PASI-D
		EPA 6010	CDP	7	PASI-D
		EPA 7470	NCC	1	PASI-D
		EPA 8270	XLY	18	PASI-D
		EPA 8260	ZST	13	PASI-D
		1030	DJF1	1	PASI-D

GCLA = Pace Analytical Gulf Coast
PASI-D = Pace Analytical Services - Dallas

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ANALYTICAL RESULTS

Project: 608425
Pace Project No.: 75139987

Sample: 608425 **Lab ID: 75139987001** Collected: 09/08/20 10:20 Received: 09/10/20 09:04 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
	Pace Analytical Gulf Coast								
PCB-1016 (Aroclor 1016)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2450		5	09/17/20 15:30	09/18/20 20:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1170		5	09/17/20 15:30	09/18/20 20:44	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	96	%	55-139		5	09/17/20 15:30	09/18/20 20:44	2051-24-3	
Tetrachloro-m-xylene (S)	97	%	44-130		5	09/17/20 15:30	09/18/20 20:44	877-09-8	
8081 GCS Pesticides, TCLP	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 09/14/20 12:06 Initial pH: 8.22; Final pH: 4.57								
	Pace Analytical Services - Dallas								
gamma-BHC (Lindane)	ND	mg/L	0.0010	.4	1	09/15/20 11:08	09/16/20 13:52	58-89-9	
Chlordane (Technical)	ND	mg/L	0.0040	.03	1	09/15/20 11:08	09/16/20 13:52	57-74-9	
Endrin	ND	mg/L	0.00040	.02	1	09/15/20 11:08	09/16/20 13:52	72-20-8	
Heptachlor	ND	mg/L	0.00020	.008	1	09/15/20 11:08	09/16/20 13:52	76-44-8	
Heptachlor epoxide	ND	mg/L	0.00020	.008	1	09/15/20 11:08	09/16/20 13:52	1024-57-3	
Methoxychlor	ND	mg/L	0.0020	10	1	09/15/20 11:08	09/16/20 13:52	72-43-5	
Toxaphene	ND	mg/L	0.0060	.5	1	09/15/20 11:08	09/16/20 13:52	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	99	%.	12-162		1	09/15/20 11:08	09/16/20 13:52	2051-24-3	CH
Tetrachloro-m-xylene (S)	75	%.	54-127		1	09/15/20 11:08	09/16/20 13:52	877-09-8	
8151 Chlorinate Herbicide TCLP	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
	Leachate Method/Date: EPA 1311; 09/14/20 12:06 Initial pH: 8.22; Final pH: 4.57								
	Pace Analytical Services - Dallas								
2,4-D	ND	mg/L	0.010	10	1	09/15/20 10:25	09/15/20 19:45	94-75-7	
2,4,5-TP (Silvex)	ND	mg/L	0.010	1	1	09/15/20 10:25	09/15/20 19:45	93-72-1	
Surrogates									
2,4-DCAA (S)	49	%.	10-171		1	09/15/20 10:25	09/15/20 19:45	19719-28-9	
6010 Metals, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 09/14/20 12:06 Initial pH: 8.22; Final pH: 4.57								
	Pace Analytical Services - Dallas								
Arsenic	ND	mg/L	0.060	5	1	09/16/20 09:29	09/16/20 13:23	7440-38-2	
Barium	**0.49**	mg/L	0.10	100	1	09/16/20 09:29	09/16/20 13:23	7440-39-3	
Cadmium	ND	mg/L	0.050	1	1	09/16/20 09:29	09/16/20 13:23	7440-43-9	
Chromium	ND	mg/L	0.070	5	1	09/16/20 09:29	09/16/20 13:23	7440-47-3	
Lead	ND	mg/L	0.10	5	1	09/16/20 09:29	09/16/20 13:23	7439-92-1	
Selenium	ND	mg/L	0.20	1	1	09/16/20 09:29	09/16/20 13:23	7782-49-2	
Silver	ND	mg/L	0.050	5	1	09/16/20 09:29	09/16/20 13:23	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 608425
Pace Project No.: 75139987

Sample: 608425 **Lab ID: 75139987001** Collected: 09/08/20 10:20 Received: 09/10/20 09:04 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 09/14/20 12:06 Initial pH: 8.22; Final pH: 4.57 Pace Analytical Services - Dallas								
Mercury	ND	mg/L	0.00020	.2	1	09/15/20 11:30	09/15/20 16:46	7439-97-6	
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Leachate Method/Date: EPA 1311; 09/14/20 12:06 Initial pH: 8.22; Final pH: 4.57 Pace Analytical Services - Dallas								
1,4-Dichlorobenzene	ND	mg/L	0.030	7.5	1	09/15/20 11:08	09/16/20 17:57	106-46-7	
2,4-Dinitrotoluene	ND	mg/L	0.030	.13	1	09/15/20 11:08	09/16/20 17:57	121-14-2	
Hexachloro-1,3-butadiene	ND	mg/L	0.050	.5	1	09/15/20 11:08	09/16/20 17:57	87-68-3	
Hexachlorobenzene	ND	mg/L	0.030	.13	1	09/15/20 11:08	09/16/20 17:57	118-74-1	
Hexachloroethane	ND	mg/L	0.030	3	1	09/15/20 11:08	09/16/20 17:57	67-72-1	
2-Methylphenol(o-Cresol)	ND	mg/L	0.030	200	1	09/15/20 11:08	09/16/20 17:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/L	0.050	200	1	09/15/20 11:08	09/16/20 17:57		
Nitrobenzene	ND	mg/L	0.050	2	1	09/15/20 11:08	09/16/20 17:57	98-95-3	
Pentachlorophenol	ND	mg/L	0.050	100	1	09/15/20 11:08	09/16/20 17:57	87-86-5	
Pyridine	ND	mg/L	0.030	5	1	09/15/20 11:08	09/16/20 17:57	110-86-1	
2,4,5-Trichlorophenol	ND	mg/L	0.030	400	1	09/15/20 11:08	09/16/20 17:57	95-95-4	
2,4,6-Trichlorophenol	ND	mg/L	0.050	2	1	09/15/20 11:08	09/16/20 17:57	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	77	%.	24-115		1	09/15/20 11:08	09/16/20 17:57	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	22-120		1	09/15/20 11:08	09/16/20 17:57	321-60-8	
p-Terphenyl-d14 (S)	78	%.	46-127		1	09/15/20 11:08	09/16/20 17:57	1718-51-0	
Phenol-d6 (S)	67	%.	11-114		1	09/15/20 11:08	09/16/20 17:57	13127-88-3	
2-Fluorophenol (S)	69	%.	10-109		1	09/15/20 11:08	09/16/20 17:57	367-12-4	
2,4,6-Tribromophenol (S)	70	%.	24-124		1	09/15/20 11:08	09/16/20 17:57	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/20 10:30 Pace Analytical Services - Dallas								
Benzene	ND	mg/L	0.050	.5	1		09/21/20 17:10	71-43-2	
2-Butanone (MEK)	ND	mg/L	0.62	200	1		09/21/20 17:10	78-93-3	
Carbon tetrachloride	ND	mg/L	0.050	.5	1		09/21/20 17:10	56-23-5	
Chlorobenzene	ND	mg/L	0.050	100	1		09/21/20 17:10	108-90-7	
Chloroform	ND	mg/L	0.12	6	1		09/21/20 17:10	67-66-3	
1,2-Dichloroethane	ND	mg/L	0.12	.5	1		09/21/20 17:10	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.12	.7	1		09/21/20 17:10	75-35-4	
Tetrachloroethene	ND	mg/L	0.12	.7	1		09/21/20 17:10	127-18-4	
Trichloroethene	ND	mg/L	0.050	.5	1		09/21/20 17:10	79-01-6	
Vinyl chloride	ND	mg/L	0.12	.2	1		09/21/20 17:10	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		09/21/20 17:10	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		09/21/20 17:10	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130		1		09/21/20 17:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

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400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 608425
Pace Project No.: 75139987

Sample: 608425 **Lab ID: 75139987001** Collected: 09/08/20 10:20 Received: 09/10/20 09:04 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
1030 Ignitability of Solids	Analytical Method: 1030 Pace Analytical Services - Dallas								
Ignitability	**Not Ignitable**	mm/sec			1		09/24/20 12:31		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 150907
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75139987001

METHOD BLANK: 686579 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	09/15/20 16:19	

LABORATORY CONTROL SAMPLE: 686580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 686581 686582

Parameter	Units	75140036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	94	99	80-120	5	20	

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 150973
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75139987001

METHOD BLANK: 686966 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.060	09/16/20 12:11	
Barium	mg/L	ND	0.10	09/16/20 12:11	
Cadmium	mg/L	ND	0.050	09/16/20 12:11	
Chromium	mg/L	ND	0.070	09/16/20 12:11	
Lead	mg/L	ND	0.10	09/16/20 12:11	
Selenium	mg/L	ND	0.20	09/16/20 12:11	
Silver	mg/L	ND	0.050	09/16/20 12:11	

LABORATORY CONTROL SAMPLE: 686967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	9.1	91	80-120	
Barium	mg/L	10	9.6	96	80-120	
Cadmium	mg/L	10	9.5	95	80-120	
Chromium	mg/L	10	9.6	96	80-120	
Lead	mg/L	10	10.4	104	80-120	
Selenium	mg/L	10	9.7	97	80-120	
Silver	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 686968 686969

Parameter	Units	75140024001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.3	9.5	93	95	79-123	3	20	
Barium	mg/L	ND	10	10	9.2	9.4	92	94	86-113	2	20	
Cadmium	mg/L	ND	10	10	9.4	9.6	94	96	82-123	2	20	
Chromium	mg/L	ND	10	10	9.5	9.7	95	97	80-113	2	20	
Lead	mg/L	ND	10	10	9.7	10.0	97	100	79-118	3	20	
Selenium	mg/L	ND	10	10	9.9	10.0	99	100	77-137	2	20	
Silver	mg/L	ND	5	5	4.7	4.8	93	95	76-133	2	20	

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 151293
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75139987001

METHOD BLANK: 688592 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	ND	0.12	09/21/20 11:29	
1,2-Dichloroethane	mg/L	ND	0.12	09/21/20 11:29	
2-Butanone (MEK)	mg/L	ND	0.62	09/21/20 11:29	
Benzene	mg/L	ND	0.050	09/21/20 11:29	
Carbon tetrachloride	mg/L	ND	0.050	09/21/20 11:29	
Chlorobenzene	mg/L	ND	0.050	09/21/20 11:29	
Chloroform	mg/L	ND	0.12	09/21/20 11:29	
Tetrachloroethene	mg/L	ND	0.12	09/21/20 11:29	
Trichloroethene	mg/L	ND	0.050	09/21/20 11:29	
Vinyl chloride	mg/L	ND	0.12	09/21/20 11:29	
1,2-Dichloroethane-d4 (S)	%.	103	70-130	09/21/20 11:29	
4-Bromofluorobenzene (S)	%.	96	70-130	09/21/20 11:29	
Toluene-d8 (S)	%.	99	70-130	09/21/20 11:29	

LABORATORY CONTROL SAMPLE: 688593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	0.49	0.52	105	60-140	
1,2-Dichloroethane	mg/L	0.5	0.49	98	60-140	
2-Butanone (MEK)	mg/L	2.5	2.4	97	40-140	
Benzene	mg/L	0.5	0.51	103	60-140	
Carbon tetrachloride	mg/L	0.5	0.49	100	60-140	
Chlorobenzene	mg/L	0.5	0.51	103	60-140	
Chloroform	mg/L	0.5	0.50	102	60-140	
Tetrachloroethene	mg/L	0.5	0.55	109	60-140	
Trichloroethene	mg/L	0.5	0.52	104	60-140	
Vinyl chloride	mg/L	0.5	0.59	119	60-140	
1,2-Dichloroethane-d4 (S)	%.			101	70-130	
4-Bromofluorobenzene (S)	%.			96	70-130	
Toluene-d8 (S)	%.			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 688594 688595

Parameter	Units	75139664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	mg/L	ND	0.49	0.49	0.63	0.58	127	116	60-140	8	20	
1,2-Dichloroethane	mg/L	ND	0.5	0.5	0.60	0.58	120	117	60-140	2	20	

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Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 688594 688595

Parameter	Units	75139664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	mg/L	ND	2.5	2.5	3.3	3.1	130	121	40-140	7	20	
Benzene	mg/L	ND	0.5	0.5	0.56	0.53	112	106	60-140	5	20	
Carbon tetrachloride	mg/L	ND	0.5	0.5	0.52	0.50	104	101	60-140	3	20	
Chlorobenzene	mg/L	ND	0.5	0.5	0.54	0.52	108	105	60-140	3	20	
Chloroform	mg/L	ND	0.5	0.5	0.60	0.56	120	114	60-140	5	20	
Tetrachloroethene	mg/L	ND	0.5	0.5	0.56	0.53	112	107	60-140	5	20	
Trichloroethene	mg/L	ND	0.5	0.5	0.54	0.51	109	103	60-140	6	20	
Vinyl chloride	mg/L	ND	0.5	0.5	0.63	0.59	126	117	60-140	7	20	
1,2-Dichloroethane-d4 (S)	%.						108	108	70-130			
4-Bromofluorobenzene (S)	%.						96	96	70-130			
Toluene-d8 (S)	%.						104	103	70-130			

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 150887
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081 GCS TCLP Pesticides
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75139987001

METHOD BLANK: 686496 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.0040	09/16/20 12:40	
Endrin	mg/L	ND	0.00040	09/16/20 12:40	
gamma-BHC (Lindane)	mg/L	ND	0.0010	09/16/20 12:40	
Heptachlor	mg/L	ND	0.00020	09/16/20 12:40	
Heptachlor epoxide	mg/L	ND	0.00020	09/16/20 12:40	
Methoxychlor	mg/L	ND	0.0020	09/16/20 12:40	
Toxaphene	mg/L	ND	0.0060	09/16/20 12:40	
Decachlorobiphenyl (S)	%.	110	12-162	09/16/20 12:40	CH
Tetrachloro-m-xylene (S)	%.	77	54-127	09/16/20 12:40	

LABORATORY CONTROL SAMPLE: 686497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	mg/L	0.005	0.0048	97	56-152	
gamma-BHC (Lindane)	mg/L	0.005	0.0040	80	70-135	
Heptachlor	mg/L	0.005	0.0046	93	59-139	
Heptachlor epoxide	mg/L	0.005	0.0043	86	65-138	
Methoxychlor	mg/L	0.005	0.0041	81	39-160	
Decachlorobiphenyl (S)	%.			87	12-162	CH
Tetrachloro-m-xylene (S)	%.			78	54-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 686498 686499

Parameter	Units	75139987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endrin	mg/L	ND	0.005	0.005	0.0040	0.0046	80	91	39-173	13	40	
gamma-BHC (Lindane)	mg/L	ND	0.005	0.005	0.0039	0.0044	78	88	69-139	12	40	
Heptachlor	mg/L	ND	0.005	0.005	0.0036	0.0038	72	76	48-141	5	40	
Heptachlor epoxide	mg/L	ND	0.005	0.005	0.0039	0.0043	79	86	28-164	9	40	
Methoxychlor	mg/L	ND	0.005	0.005	0.0036	0.0042	72	84	20-178	16	40	
Decachlorobiphenyl (S)	%.						102	111	12-162			CH
Tetrachloro-m-xylene (S)	%.						73	79	54-127			

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 692418
QC Batch Method: EPA 3546
Analysis Method: EPA 8082
Analysis Description: EPA 8082A Solid
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 75139987001

METHOD BLANK: 2084548 Matrix: Solid
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/kg	ND	70.0	09/18/20 11:30	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.3	09/18/20 11:30	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.3	09/18/20 11:30	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.3	09/18/20 11:30	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.3	09/18/20 11:30	
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.3	09/18/20 11:30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.3	09/18/20 11:30	
Decachlorobiphenyl (S)	%	112	55-139	09/18/20 11:30	
Tetrachloro-m-xylene (S)	%	104	44-130	09/18/20 11:30	

LABORATORY CONTROL SAMPLE & LCSD: 2084549 2084550

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	267	291	302	109	113	47-134	4	30	
PCB-1260 (Aroclor 1260)	ug/kg	267	328	322	123	121	53-140	2	30	
Decachlorobiphenyl (S)	%				109	105	55-139			
Tetrachloro-m-xylene (S)	%				94	94	44-130			

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 150902
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151 GCS TCLP Herbicides
Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75139987001

METHOD BLANK: 686555 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.010	09/15/20 18:00	
2,4-D	mg/L	ND	0.010	09/15/20 18:00	
2,4-DCAA (S)	%.	81	10-171	09/15/20 18:00	

LABORATORY CONTROL SAMPLE: 686556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	0.03	0.032	106	28-145	
2,4-D	mg/L	0.03	0.031	104	28-145	
2,4-DCAA (S)	%.			85	10-171	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 686557 686558

Parameter	Units	75139988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	0.03	0.03	0.021	0.018	69	60	20-129	14	20	
2,4-D	mg/L	ND	0.03	0.03	0.022	0.020	74	65	12-162	12	20	
2,4-DCAA (S)	%.						41	27	10-171			

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

QC Batch: 150886
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 TCLP MSSV
Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75139987001

METHOD BLANK: 686492 Matrix: Water
Associated Lab Samples: 75139987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	ND	0.030	09/16/20 15:29	
2,4,5-Trichlorophenol	mg/L	ND	0.030	09/16/20 15:29	
2,4,6-Trichlorophenol	mg/L	ND	0.050	09/16/20 15:29	
2,4-Dinitrotoluene	mg/L	ND	0.030	09/16/20 15:29	
2-Methylphenol(o-Cresol)	mg/L	ND	0.030	09/16/20 15:29	
3&4-Methylphenol(m&p Cresol)	mg/L	ND	0.050	09/16/20 15:29	
Hexachloro-1,3-butadiene	mg/L	ND	0.050	09/16/20 15:29	
Hexachlorobenzene	mg/L	ND	0.030	09/16/20 15:29	
Hexachloroethane	mg/L	ND	0.030	09/16/20 15:29	
Nitrobenzene	mg/L	ND	0.050	09/16/20 15:29	
Pentachlorophenol	mg/L	ND	0.050	09/16/20 15:29	
Pyridine	mg/L	ND	0.030	09/16/20 15:29	
2,4,6-Tribromophenol (S)	%.	84	26-123	09/16/20 15:29	
2-Fluorobiphenyl (S)	%.	82	20-120	09/16/20 15:29	
2-Fluorophenol (S)	%.	80	1-96	09/16/20 15:29	
Nitrobenzene-d5 (S)	%.	78	15-122	09/16/20 15:29	
p-Terphenyl-d14 (S)	%.	81	41-138	09/16/20 15:29	
Phenol-d6 (S)	%.	75	1-102	09/16/20 15:29	

LABORATORY CONTROL SAMPLE: 686493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	0.5	0.42	84	21-106	
2,4,5-Trichlorophenol	mg/L	0.5	0.50	99	39-131	
2,4,6-Trichlorophenol	mg/L	0.5	0.50	99	38-130	
2,4-Dinitrotoluene	mg/L	0.5	0.49	99	36-117	
2-Methylphenol(o-Cresol)	mg/L	0.5	0.46	92	33-124	
3&4-Methylphenol(m&p Cresol)	mg/L	1	0.90	90	29-128	
Hexachloro-1,3-butadiene	mg/L	0.5	0.44	87	18-112	
Hexachlorobenzene	mg/L	0.5	0.46	92	54-123	
Hexachloroethane	mg/L	0.5	0.42	84	15-109	
Nitrobenzene	mg/L	0.5	0.45	91	28-136	
Pentachlorophenol	mg/L	0.5	0.29	58	18-129	
Pyridine	mg/L	0.5	0.22	43	3-90	
2,4,6-Tribromophenol (S)	%.			92	26-123	
2-Fluorobiphenyl (S)	%.			93	20-120	
2-Fluorophenol (S)	%.			86	1-96	
Nitrobenzene-d5 (S)	%.			84	15-122	
p-Terphenyl-d14 (S)	%.			87	41-138	

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QUALITY CONTROL DATA

Project: 608425
Pace Project No.: 75139987

LABORATORY CONTROL SAMPLE: 686493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%.			81	1-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 686494 686495

Parameter	Units	75139988001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	mg/L	ND	0.5	0.5	0.29	0.33	59	65	27-90	11	40	
2,4,5-Trichlorophenol	mg/L	ND	0.5	0.5	0.37	0.42	74	83	50-121	12	40	
2,4,6-Trichlorophenol	mg/L	ND	0.5	0.5	0.37	0.41	74	83	45-125	11	40	
2,4-Dinitrotoluene	mg/L	ND	0.5	0.5	0.36	0.42	72	83	43-139	14	40	
2-Methylphenol(o-Cresol)	mg/L	ND	0.5	0.5	0.35	0.39	69	78	15-100	12	40	
3&4-Methylphenol(m&p Cresol)	mg/L	0.47	1	1	1.1	1.2	65	77	10-105	10	40	
Hexachloro-1,3-butadiene	mg/L	ND	0.5	0.5	0.30	0.33	60	66	22-95	9	40	
Hexachlorobenzene	mg/L	ND	0.5	0.5	0.35	0.37	70	74	46-123	7	40	
Hexachloroethane	mg/L	ND	0.5	0.5	0.30	0.34	60	68	18-88	12	40	
Nitrobenzene	mg/L	ND	0.5	0.5	0.33	0.39	67	78	28-119	15	40	
Pentachlorophenol	mg/L	ND	0.5	0.5	0.27	0.31	55	62	14-154	12	40	
Pyridine	mg/L	ND	0.5	0.5	0.42	0.35	84	71	10-69	17	40	M1
2,4,6-Tribromophenol (S)	%.						69	70	24-124			
2-Fluorobiphenyl (S)	%.						63	72	22-120			
2-Fluorophenol (S)	%.						64	72	10-109			
Nitrobenzene-d5 (S)	%.						61	70	24-115			
p-Terphenyl-d14 (S)	%.						69	75	46-127			
Phenol-d6 (S)	%.						64	70	11-114			

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QUALIFIERS

Project: 608425
Pace Project No.: 75139987

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 608425
Pace Project No.: 75139987

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75139987001	**608425**	EPA 3546	692418	EPA 8082	692685
75139987001	**608425**	EPA 3510	150887	EPA 8081	150949
75139987001	**608425**	EPA 8151	150902	EPA 8151	150950
75139987001	**608425**	EPA 3010	150973	EPA 6010	150999
75139987001	**608425**	EPA 7470	150907	EPA 7470	150920
75139987001	**608425**	EPA 3510	150886	EPA 8270	150957
75139987001	**608425**	EPA 8260	151293		
75139987001	**608425**	1030	151573		

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Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

WO#: 75139987

Client Name: Pollution Control Project Work order

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☑ PACE ☐ Other: _____

Tracking #: Tracking # not received ZY02 JANH

Custody Seal on Cooler/Box: Yes ☑ No ☐

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR13 Cooler Temp °C: 5.3 (Recorded) 0.1 (Correction Factor) 5.4 (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: ____ (Recorded) ____ (Correction Factor) ____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: R Date: 9/10/20

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☐ No ☑
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: MY Date: 9.10.20

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: _____	Yes ☐ No ☐ NA ☑
Residual Chlorine Present Cl Strips: _____	Yes ☐ No ☐ NA ☑
Sulfide Present Lead Acetate Strips: _____	Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): AD Date: 9/10/20

Pollution Control Services
Sample Log-In Checklist

PCS Sample No(s) 608425 **COC No.** 608425

Client/Company Name: Florasulk **Checklist Completed by:** GM

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 if Present? Yes ___ No ___

Sample Preservation:
* *Cooling:* **Not Required** ✓ or **Required** ____
If cooling required, record temperature of submitted samples Observed/Corrected 9 / 7 °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:____ Date ____ Time ____
pH paper used to check sample preservation (PCS log #): ____ (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: ____

** Samples submitted for Metals Analysis (except Hex Cr) or Drinking Water for Coliform Bacteria Only are not required to be iced. Samples collected prior day to receipt at the laboratory must meet method specific thermal cooling requirements, "or will be flagged accordingly". Samples delivered the same day as collected may not meet thermal criteria, but shall be considered acceptable if evidence that the chilling process has begun, such as arrival on ice (EPA 815-F-08-006, June 2008). ** Water samples for metals analysis that are not acid preserved prior to shipment may be acceptably preserved by the laboratory on receipt – however, the sample digestion procedure must be delayed for at least 24 hours after preservation by the laboratory.*

BatchNo: 91957

SAMPLE REPORT

T104704328-19-16

Business

Hallettsville, City of
101 N Main
Hallettsville Tx 77964
Att: Robert Stratmann

Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: Hallettsville - Sludge
Printed: Tuesday, November 05, 2019

Re: Hallettsville, City of

Dear: Robert Stratmann

Attached are the results for sample(s) received on 10/23/2019

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 22 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director

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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 91957 Page 2 of 22

Batch No: 91957

Sample Receipt Checklist

Date Received: 10/23/2019

Project	Hallettsville - Sludge	Received By:	Honnen

Login completed by: Honnen (Signature) 10/23/2019 (LoginDate:)

Carrier Name: Walk In

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/bottles?	☑ YES	☐ NO		
Sample containers intact?	☑ YES	☐ NO		
Sufficient sample volume for indicated tests?	☑ YES	☐ NO		
All samples received within holding times?	☑ YES	☐ NO		
Container/Temp Blank - temperature in compliance?	☑ YES	☐ NO	>0 <6 °C On Ice	
Water - VOA vials have zero headspace? Bubble < 6mm?	☐ YES	☐ NO	☑ No VOA Vials submitted	
Water - pH acceptable upon receipt?	☐ YES	☐ NO	☑ Not Applicable	

*TEMP 24.9/24.9 | pH Adjusted? NA | Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted		PersonContacted	
Contacted by:		Date Contacted:	

Regarding:

Comments:
Therm #4. The sample was recieved within 24 hours of being collected and was in the process of cooling.

Corrective Action:

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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 91957

Sample Report Information

Sample ID:	S192961027	Client ID:	Sludge	Sampler:	Client

Client: Hallettsville, City of
Study: Solid
Project: Hallettsville - Sludge
Location: Hallettsville
Notes:

Batch No: 91957
Sampled: 10/22/2019 1:15 PM

Type: Grab
Matrix: Solid

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
.TCLP-Semi -Volatiles	C	#	SW-1311		10/31/2019 17:39					☑	DHL Cert No. T104704211-18-2
.TCLP-VOC-Extraction	C	#	SW-1311	C Watts	10/24/2019 9:36					☐	B- E Cert. # T104704328-19-16
SUB-OUT-Metals	C	#			11/1/2019 11:35					☑	DHL Cert No. T104704211-18-2
SUB-OUT-SEMI-VOC	C	#			11/4/2019 18:59					☑	DHL Cert No. T104704211-18-2
TC-1,1-Dichloroethene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-1,2-Dichloroethane	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-1,4-Dichlorobenzene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-2-Butanone (MEK)	0.654	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.005	0.005			☐	B- E Cert. # T104704328-19-16
TC-Benzene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-Carbon Tetrachloride	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-Chlorobenzene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-Chloroform	< 0.125	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.005	0.005			☐	B- E Cert. # T104704328-19-16
TC-Tetrachloroethene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-Trichloroethene	< 0.025	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.001	0.001			☐	B- E Cert. # T104704328-19-16
TC-Vinyl chloride	< 0.125	mg/L	SW 8260B	K Baros	10/26/2019 1:40	0.005	0.005			☐	B- E Cert. # T104704328-19-16
VOC-Surr: .DBFM TCLP/	108	%	SW 8260B	K Baros	10/26/2019 1:40	80	120			☐	B- E Cert. # T104704328-19-16
VOC-Surr: .DCE-d4 TCL	103	%	SW 8260B	K Baros	10/26/2019 1:40	80	120			☐	B- E Cert. # T104704328-19-16
VOC-Surr: .T-d8 TCLP/S	95.7	%	SW 8260B	K Baros	10/26/2019 1:40	80	120			☐	B- E Cert. # T104704328-19-16
VOC-Surr: 4-BFB TCLP/	92.7	%	SW 8260B	K Baros	10/26/2019 1:40	75	120			☐	B- E Cert. # T104704328-19-16

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Victoria TX 77901

BatchNo: 91957 Page 4 of 22

QA Summary Report

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifer	Control	Flag	Comments

Flag and Qualifier Legend

Negative - Result Detected
Caution - Problem Detected
Warning - Null Value

MDL = Method Detection Limit *DF = Dilution Factor*
LOQ = Limit of Quantitation *J = Analyte detected between MDL and LOQ*
S = surrogate standard out of limit *H = sample out of hold time*

MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Tuesday, November 05, 2019 B Environmental - LDMS QA Report Summary

Note: THANK YOU!

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B ENVIRONMENTAL
2606 E. Brazos St. Suite D Victoria, TX 77901 (361)572-8224

Volatile QA/QC SUMMARY REPORT

MS Sequence #: 19102501
Sample Batch #: 91853, 91957, 91997
Spiked Sample ID: S192941258A

Report Date: 10/25/2019
Analyst ID: KB

Parameter	Blank ug/L	LCS ug/L	Spiked Sample ug/L	MS ug/L	MSD ug/L	ug/L Added	LCS Recovery %	Limits	MS Recovery %	MSD Recovery %	Limits	MS/MSD RPD %	Limits	Qual
TCLP Volatiles 8260														
Vinyl Chloride	<5	37.2	< 5	36.9	34.3	40.0	93.0	50-145	92.2	85.8	50-145	7.2	20	
1,1-Dichloroethene	<1	19.3	< 1	19.1	18.3	20.0	96.5	70-130	95.6	91.4	70-130	4.4	20	
Methyl ethyl ketone	<5	39.8	< 5	38.5	35.3	40.0	99.4	30-150	96.2	88.3	30-150	8.5	25	
Chloroform	<5	20.9	< 5	20.9	20.2	20.0	104.5	65-135	104.6	100.9	65-135	3.6	20	
Carbon Tetrchloride	<1	20.8	< 1	21.0	21.4	20.0	104.1	65-140	104.8	106.8	65-140	1.9	25	
Benzene	<1	18.8	< 1	18.9	18.7	20.0	93.8	80-120	94.3	93.7	80-120	0.6	20	
1,2-Dichloroethane	<1	20.4	< 1	20.5	20.2	20.0	102.0	70-130	102.5	101.0	70-130	1.5	25	
Trichloroethene	<1	20.5	< 1	20.3	20.9	20.0	102.5	70-125	101.6	104.6	70-125	3.0	20	
Tetrachloroethene	<1	20.1	< 1	19.9	20.9	20.0	100.3	45-150	99.7	104.4	45-150	4.6	25	
Chlorobenzene	<1	20.4	< 1	20.8	20.7	20.0	102.0	80-120	103.8	103.7	80-120	0.1	20	
1,4-Dichlorobenzene	<1	21.1	< 1	20.9	21.2	20.0	105.6	75-125	104.3	106.0	75-125	1.7	25	

RPD-Relative Percent Deviation
MS-Matrix Spike
MSD-Matrix Spike Duplicate
LCS-Laboratory Control Standard

0 out of 11 RPD out of limits
0 out of 11 LCS Recoveries out of limits
0 out of 22 MS/MSD Recoveries out of limits

Qualifiers:
S Spike Recovery outside control limit
R RPD outside control limits

Approved By:

Kevin C. Baros
General Manager

DHL Analytical, Inc. **Date:** *05-Nov-19*

CLIENT: B-Environmental
Project: Hallettsville
Lab Order: 1910220

CASE NARRATIVE

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

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives.

The results of sample were below TCLP or RCRA characterization limits.

DHL Analytical, Inc.

Date: *05-Nov-19*

CLIENT:	B-Environmental	**Client Sample ID:**	Sludge
Project:	Hallettsville	**Lab ID:**	1910220-01
Project No:	Permit (91957)	**Alternate ID:**	S192961027
Lab Order:	1910220	**Collection Date:**	10/22/19 01:15 PM
		Matrix:	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **LG**
Aroclor 1016	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1221	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1232	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1242	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1248	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1254	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Aroclor 1260	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Total PCBs	<0.0546	0.0546	0.109		mg/Kg-dry	1	10/31/19 10:40 AM
Surr: Decachlorobiphenyl	99.0	0	58-125		%REC	1	10/31/19 10:40 AM
Surr: Tetrachloro-m-xylene	105	0	40-130		%REC	1	10/31/19 10:40 AM
TCLP HERBICIDES		**SW1311/8321B**					Analyst: **CC**
2,4-D	<0.000874	0.000874	0.00262		mg/L	1	11/04/19 10:35 AM
Silvex	<0.000874	0.000874	0.00262		mg/L	1	11/04/19 10:35 AM
Surr: CPMBA	72.1	0	50-130		%REC	1	11/04/19 10:35 AM
Surr: DCAA	90.1	0	50-130		%REC	1	11/04/19 10:35 AM
TCLP MERCURY		**SW1311/7470A**					Analyst: **BM**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	11/01/19 01:18 PM
TCLP METALS		**SW1311/6020A**					Analyst: **RO**
Arsenic	0.0137	0.0100	0.0250	J	mg/L	1	11/01/19 11:35 AM
Barium	0.552	0.0150	0.0500		mg/L	1	11/01/19 11:35 AM
Cadmium	<0.00150	0.00150	0.00500		mg/L	1	11/01/19 11:35 AM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	11/01/19 11:35 AM
Lead	<0.00150	0.00150	0.00500		mg/L	1	11/01/19 11:35 AM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	11/01/19 11:35 AM
Silver	<0.00500	0.00500	0.0100		mg/L	1	11/01/19 11:35 AM
TCLP PESTICIDES BY GC/MS		**SW1311/8270D**					Analyst: **LG**
Chlordane	<0.000576	0.000576	0.00192		mg/L	1	11/04/19 06:58 PM
Endrin	<0.0000960	0.0000960	0.000288		mg/L	1	11/04/19 06:58 PM
gamma-BHC	<0.0000960	0.0000960	0.000288		mg/L	1	11/04/19 06:58 PM
Heptachlor	<0.0000960	0.0000960	0.000288		mg/L	1	11/04/19 06:58 PM
Heptachlor + epoxide	<0.0000960	0.0000960	0.000288		mg/L	1	11/04/19 06:58 PM
Heptachlor epoxide	<0.0000960	0.0000960	0.000288		mg/L	1	11/04/19 06:58 PM
Methoxychlor	<0.0000960	0.0000960	0.000480		mg/L	1	11/04/19 06:58 PM
Toxaphene	<0.00384	0.00384	0.0120		mg/L	1	11/04/19 06:58 PM
Surr: 2-Fluorobiphenyl	64.2	0	48-120		%REC	1	11/04/19 06:58 PM
Surr: 4-Terphenyl-d14	90.4	0	51-135		%REC	1	11/04/19 06:58 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: *05-Nov-19*

CLIENT:	B-Environmental	**Client Sample ID:**	Sludge
Project:	Hallettsville	**Lab ID:**	1910220-01
Project No:	Permit (91957)	**Alternate ID:**	S192961027
Lab Order:	1910220	**Collection Date:**	10/22/19 01:15 PM
		Matrix:	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP SEMI-VOLATILES		**SW1311/8270D**					Analyst: **LG**
1,4-Dichlorobenzene	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
2,4,5-Trichlorophenol	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
2,4,6-Trichlorophenol	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
2,4-Dinitrotoluene	<0.00873	0.00873	0.0175		mg/L	1	10/31/19 05:39 PM
2-Methylphenol	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
3&4-Methylphenol	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
Hexachlorobenzene	<0.00873	0.00873	0.0175		mg/L	1	10/31/19 05:39 PM
Hexachlorobutadiene	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
Hexachloroethane	<0.00873	0.00873	0.0349		mg/L	1	10/31/19 05:39 PM
Nitrobenzene	<0.0175	0.0175	0.0349		mg/L	1	10/31/19 05:39 PM
Pentachlorophenol	<0.0175	0.0175	0.0349		mg/L	1	10/31/19 05:39 PM
Pyridine	<0.0349	0.0349	0.0873		mg/L	1	10/31/19 05:39 PM
Surr: 2,4,6-Tribromophenol	102	0	42-124		%REC	1	10/31/19 05:39 PM
Surr: 2-Fluorobiphenyl	81.2	0	48-120		%REC	1	10/31/19 05:39 PM
Surr: 2-Fluorophenol	83.0	0	20-120		%REC	1	10/31/19 05:39 PM
Surr: 4-Terphenyl-d14	80.2	0	51-135		%REC	1	10/31/19 05:39 PM
Surr: Nitrobenzene-d5	88.5	0	41-120		%REC	1	10/31/19 05:39 PM
Surr: Phenol-d5	74.5	0	20-120		%REC	1	10/31/19 05:39 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.61	0	0		WT%	1	10/29/19 09:00 AM

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	Page 2 of 2

DHL Analytical, Inc. **Date:** *05-Nov-19*

CLIENT: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_191031A

The QC data in batch 93487 applies to the following samples: 1910220-01B

Sample ID: **LCS-93487** Batch ID: **93487** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC16_191031A** Analysis Date: **10/31/2019 9:49:00 AM** Prep Date: **10/30/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.915	0.100	1.000	0	91.5	41	138			
Aroclor 1260	0.907	0.100	1.000	0	90.7	61	131			
Surr: Decachlorobiphenyl	0.0990		0.1000		99.0	58	125			
Surr: Tetrachloro-m-xylene	0.106		0.1000		106	40	130			

Sample ID: **MB-93487** Batch ID: **93487** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC16_191031A** Analysis Date: **10/31/2019 10:14:00 A** Prep Date: **10/30/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0500	0.100								
Aroclor 1221	<0.0500	0.100								
Aroclor 1232	<0.0500	0.100								
Aroclor 1242	<0.0500	0.100								
Aroclor 1248	<0.0500	0.100								
Aroclor 1254	<0.0500	0.100								
Aroclor 1260	<0.0500	0.100								
Total PCBs	<0.0500	0.100								
Surr: Decachlorobiphenyl	0.0930		0.1000		93.0	58	125			
Surr: Tetrachloro-m-xylene	0.109		0.1000		109	40	130			

Sample ID: **1910220-01BMS** Batch ID: **93487** TestNo: **SW8082A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC16_191031A** Analysis Date: **10/31/2019 11:05:00 A** Prep Date: **10/30/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.914	0.102	1.021	0	89.6	41	138			
Aroclor 1260	0.906	0.102	1.021	0	88.7	61	131			
Surr: Decachlorobiphenyl	0.0953		0.1021		93.3	58	125			
Surr: Tetrachloro-m-xylene	0.0985		0.1021		96.5	40	130			

Sample ID: **1910220-01BMSD** Batch ID: **93487** TestNo: **SW8082A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC16_191031A** Analysis Date: **10/31/2019 12:21:00 P** Prep Date: **10/30/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.961	0.103	1.028	0	93.5	41	138	5.03	50	
Aroclor 1260	0.963	0.103	1.028	0	93.6	61	131	6.14	50	
Surr: Decachlorobiphenyl	0.113		0.1028		110	58	125	0		
Surr: Tetrachloro-m-xylene	0.110		0.1028		107	40	130	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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_191104A

The QC data in batch 93521 applies to the following samples: 1910220-01A

Sample ID: **MB-93521** Batch ID: **93521** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MBLK** Run ID: **LCMS2_191104A** Analysis Date: **11/4/2019 9:40:43 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	<0.000100	0.000300								
Silvex	<0.000100	0.000300								
Surr: CPMBA	0.00148		0.002200		67.1	50	130			
Surr: DCAA	0.00186		0.002200		84.6	50	130			

Sample ID: **MB-93491-TCLP** Batch ID: **93521** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MBLK** Run ID: **LCMS2_191104A** Analysis Date: **11/4/2019 9:59:00 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	<0.000872	0.00262								
Silvex	<0.000872	0.00262								
Surr: CPMBA	0.0149		0.01919		77.7	50	130			
Surr: DCAA	0.0188		0.01919		97.8	50	130			

Sample ID: **LCS-93521** Batch ID: **93521** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **LCS** Run ID: **LCMS2_191104A** Analysis Date: **11/4/2019 10:17:18 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.00166	0.000300	0.002200	0	75.6	39	120			
Silvex	0.00155	0.000300	0.002200	0	70.5	49	126			
Surr: CPMBA	0.00161		0.002200		73.2	50	130			
Surr: DCAA	0.00210		0.002200		95.5	50	130			

Sample ID: **1910220-01AMS** Batch ID: **93521** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MS** Run ID: **LCMS2_191104A** Analysis Date: **11/4/2019 10:53:54 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0193	0.00248	0.01817	0	106	39	120			
Silvex	0.0184	0.00248	0.01817	0	101	49	126			
Surr: CPMBA	0.0163		0.01817		89.6	50	130			
Surr: DCAA	0.0220		0.01817		121	50	130			

Sample ID: **1910220-01AMSD** Batch ID: **93521** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MSD** Run ID: **LCMS2_191104A** Analysis Date: **11/4/2019 11:12:12 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0191	0.00250	0.01837	0	104	39	120	1.01	30	
Silvex	0.0183	0.00250	0.01837	0	99.4	49	126	0.615	30	
Surr: CPMBA	0.0161		0.01837		87.9	50	130	0	0	
Surr: DCAA	0.0209		0.01837		114	50	130	0	30	

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_191101B

The QC data in batch 93529 applies to the following samples: 1910220-01A

Sample ID: MB-93529	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:05:03 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID: MB-93490-TCLP	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:07:19 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100								

Sample ID: LCS-93529	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: LCS	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:11:51 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00209	0.000200	0.002000	0	104	85	115			

Sample ID: LCSD-93529	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: LCSD	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:14:08 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00207	0.000200	0.002000	0	104	85	115	0.962	15	

Sample ID: 1910249-05B MS	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: MS	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:39:01 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00189	0.000200	0.002000	0	94.5	80	120			

Sample ID: 1910249-05B MSD	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: MSD	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:41:18 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00190	0.000200	0.002000	0	95.0	80	120	0.528	15	

Sample ID: 1910249-05B SD	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: SD	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:43:34 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_191101B

Sample ID: 1910249-05B PDS	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: PDS	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 1:45:50 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00239	0.000200	0.002500	0	95.6	85	115			

Sample ID: 1910254-01A MS	Batch ID: 93529	TestNo: SW1311/7470A	Units: mg/L
SampType: MS	Run ID: CETAC2_HG_191101B	Analysis Date: 11/1/2019 2:04:03 PM	Prep Date: 11/1/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0103	0.00100	0.01000	0	103	80	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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_191101A

The QC data in batch 93510 applies to the following samples: 1910220-01A

Sample ID: **MB-93510** Batch ID: **93510** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_191101A** Analysis Date: **11/1/2019 11:13:00 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID: **MB-93490-TCLP** Batch ID: **93510** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS4_191101A** Analysis Date: **11/1/2019 11:15:00 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0100	0.0250								
Barium	<0.0150	0.0500								
Cadmium	<0.00150	0.00500								
Chromium	<0.0100	0.0250								
Lead	<0.00150	0.00500								
Selenium	<0.0100	0.0250								
Silver	<0.00500	0.0100								

Sample ID: **LCS-93510** Batch ID: **93510** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS4_191101A** Analysis Date: **11/1/2019 11:17:00 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.185	0.00500	0.2000	0	92.6	80	120			
Barium	0.200	0.0100	0.2000	0	100	80	120			
Cadmium	0.198	0.00100	0.2000	0	99.1	80	120			
Chromium	0.212	0.00500	0.2000	0	106	80	120			
Lead	0.201	0.00100	0.2000	0	101	80	120			
Selenium	0.181	0.00500	0.2000	0	90.5	80	120			
Silver	0.201	0.00200	0.2000	0	100	80	120			

Sample ID: **LCSD-93510** Batch ID: **93510** TestNo: **SW1311/6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS4_191101A** Analysis Date: **11/1/2019 11:19:00 AM** Prep Date: **10/31/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.185	0.00500	0.2000	0	92.5	80	120	0.126	15	
Barium	0.203	0.0100	0.2000	0	101	80	120	1.04	15	
Cadmium	0.201	0.00100	0.2000	0	100	80	120	1.28	15	
Chromium	0.212	0.00500	0.2000	0	106	80	120	0.072	15	

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_191101A

Sample ID: LCSD-93510	Batch ID: 93510	TestNo: SW1311/6020A	Units: mg/L
SampType: LCSD	Run ID: ICP-MS4_191101A	Analysis Date: 11/1/2019 11:19:00 AM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.209	0.00100	0.2000	0	105	80	120	3.94	15	
Selenium	0.176	0.00500	0.2000	0	88.2	80	120	2.62	15	
Silver	0.200	0.00200	0.2000	0	100	80	120	0.230	15	

Sample ID: 1910254-01A SD	Batch ID: 93510	TestNo: SW1311/6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS4_191101A	Analysis Date: 11/1/2019 11:25:00 AM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0500	0.125	0	0				0	10	
Barium	0.509	0.250	0	0.4949				2.81	10	
Cadmium	<0.00750	0.0250	0	0				0	10	
Chromium	<0.0500	0.125	0	0				0	10	
Lead	<0.00750	0.0250	0	0				0	10	
Selenium	<0.0500	0.125	0	0				0	10	
Silver	<0.0250	0.0500	0	0				0	10	

Sample ID: 1910254-01A PDS	Batch ID: 93510	TestNo: SW1311/6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS4_191101A	Analysis Date: 11/1/2019 11:45:00 AM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.969	0.0250	1.000	0	96.9	80	120			
Barium	1.45	0.0500	1.000	0.4949	95.3	80	120			
Cadmium	0.962	0.00500	1.000	0	96.2	80	120			
Chromium	1.01	0.0250	1.000	0	101	80	120			
Lead	1.00	0.00500	1.000	0	100	80	120			
Selenium	0.937	0.0250	1.000	0	93.7	80	120			
Silver	0.936	0.0100	1.000	0	93.6	80	120			

Sample ID: 1910254-01A MS	Batch ID: 93510	TestNo: SW1311/6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS4_191101A	Analysis Date: 11/1/2019 11:47:00 AM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.994	0.0250	1.000	0	99.4	80	120			
Barium	1.51	0.0500	1.000	0.4949	102	80	120			
Cadmium	0.985	0.00500	1.000	0	98.5	80	120			
Chromium	1.02	0.0250	1.000	0	102	80	120			
Lead	1.04	0.00500	1.000	0	104	80	120			
Selenium	0.994	0.0250	1.000	0	99.4	80	120			
Silver	0.949	0.0100	1.000	0	94.9	80	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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_191101A

Sample ID: 1910254-01A MSD Batch ID: 93510 TestNo: SW1311/6020A Units: mg/L
SampType: MSD Run ID: ICP-MS4_191101A Analysis Date: 11/1/2019 11:49:00 AM Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.01	0.0250	1.000	0	101	80	120	1.96	15	
Barium	1.55	0.0500	1.000	0.4949	105	80	120	2.23	15	
Cadmium	1.00	0.00500	1.000	0	100	80	120	1.97	15	
Chromium	1.03	0.0250	1.000	0	103	80	120	1.20	15	
Lead	1.05	0.00500	1.000	0	105	80	120	1.43	15	
Selenium	1.02	0.0250	1.000	0	102	80	120	2.35	15	
Silver	0.951	0.0100	1.000	0	95.1	80	120	0.232	15	

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_191104A

The QC data in batch 93567 applies to the following samples: 1910220-01A

Sample ID: **LCS-93567** Batch ID: **93567** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS10_191104A** Analysis Date: **11/4/2019 3:33:00 PM** Prep Date: **11/4/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000407	0.0000300	0.0004000	0	102	55	135			
gamma-BHC	0.000332	0.0000300	0.0004000	0	82.9	25	135			
Heptachlor	0.000308	0.0000300	0.0004000	0	77.0	40	130			
Heptachlor + epoxide	0.000660	0.0000300	0.0008000	0	82.5	40	130			
Heptachlor epoxide	0.000352	0.0000300	0.0004000	0	88.0	60	130			
Methoxychlor	0.000403	0.0000500	0.0004000	0	101	55	150			
Surr: 2-Fluorobiphenyl	0.00267		0.004000		66.7	48	120			
Surr: 4-Terphenyl-d14	0.00353		0.004000		88.2	51	135			

Sample ID: **1910220-01AMS** Batch ID: **93567** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS10_191104A** Analysis Date: **11/4/2019 4:08:00 PM** Prep Date: **11/4/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00416	0.000296	0.003945	0	105	55	135			
gamma-BHC	0.00318	0.000296	0.003945	0	80.6	25	135			
Heptachlor	0.00364	0.000296	0.003945	0	92.3	40	130			
Heptachlor + epoxide	0.00705	0.000296	0.007890	0	89.4	40	130			
Heptachlor epoxide	0.00341	0.000296	0.003945	0	86.4	60	130			
Methoxychlor	0.00396	0.000493	0.003945	0	101	55	150			
Surr: 2-Fluorobiphenyl	0.0232		0.03945		58.8	48	120			
Surr: 4-Terphenyl-d14	0.0345		0.03945		87.4	51	135			

Sample ID: **1910220-01AMSD** Batch ID: **93567** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS10_191104A** Analysis Date: **11/4/2019 4:42:00 PM** Prep Date: **11/4/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00446	0.000294	0.003922	0	114	55	135	6.99	30	
gamma-BHC	0.00343	0.000294	0.003922	0	87.4	25	135	7.53	30	
Heptachlor	0.00388	0.000294	0.003922	0	99.1	40	130	6.49	30	
Heptachlor + epoxide	0.00757	0.000294	0.007843	0	96.6	40	130	7.18	30	
Heptachlor epoxide	0.00369	0.000294	0.003922	0	94.1	60	130	7.91	30	
Methoxychlor	0.00447	0.000490	0.003922	0	114	55	150	12.0	30	
Surr: 2-Fluorobiphenyl	0.0270		0.03922		68.9	48	120	0	0	
Surr: 4-Terphenyl-d14	0.0367		0.03922		93.7	51	135	0	0	

Sample ID: **MB-93491-TCLP** Batch ID: **93567** TestNo: **SW1311/8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS10_191104A** Analysis Date: **11/4/2019 5:50:00 PM** Prep Date: **11/4/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	<0.000569	0.00190								

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_191104A

Sample ID: MB-93491-TCLP	Batch ID: 93567	TestNo: SW1311/8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS10_191104A	Analysis Date: 11/4/2019 5:50:00 PM	Prep Date: 11/4/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	<0.0000949	0.000285								
gamma-BHC	<0.0000949	0.000285								
Heptachlor	<0.0000949	0.000285								
Heptachlor + epoxide	<0.0000949	0.000285								
Heptachlor epoxide	<0.0000949	0.000285								
Methoxychlor	<0.0000949	0.000474								
Toxaphene	<0.00380	0.0119								
Surr: 2-Fluorobiphenyl	0.0255		0.03795		67.1	48	120			
Surr: 4-Terphenyl-d14	0.0332		0.03795		87.6	51	135			

Sample ID: MB-93567	Batch ID: 93567	TestNo: SW1311/8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS10_191104A	Analysis Date: 11/4/2019 6:24:00 PM	Prep Date: 11/4/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	<0.0000600	0.000200								
Endrin	<0.0000100	0.0000300								
gamma-BHC	<0.0000100	0.0000300								
Heptachlor	<0.0000100	0.0000300								
Heptachlor + epoxide	<0.0000100	0.0000300								
Heptachlor epoxide	<0.0000100	0.0000300								
Methoxychlor	<0.0000100	0.0000500								
Toxaphene	<0.000400	0.00125								
Surr: 2-Fluorobiphenyl	0.00265		0.004000		66.2	48	120			
Surr: 4-Terphenyl-d14	0.00371		0.004000		92.8	51	135			

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_191031A

The QC data in batch 93516 applies to the following samples: 1910220-01A

Sample ID: LCS-93516 Batch ID: 93516 TestNo: SW1311/8270D Units: mg/L
SampType: LCS Run ID: GCMS9_191031A Analysis Date: 10/31/2019 3:47:00 PM Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0290	0.00400	0.04000	0	72.6	30	125			
2,4,5-Trichlorophenol	0.0352	0.00400	0.04000	0	88.1	49	120			
2,4,6-Trichlorophenol	0.0339	0.00400	0.04000	0	84.8	49	126			
2,4-Dinitrotoluene	0.0365	0.00400	0.04000	0	91.2	51	120			
2-Methylphenol	0.0280	0.00400	0.04000	0	70.0	38	120			
3&4-Methylphenol	0.0269	0.00400	0.04000	0	67.3	32	120			
Hexachlorobenzene	0.0329	0.00400	0.04000	0	82.4	52	120			
Hexachlorobutadiene	0.0309	0.00400	0.04000	0	77.3	27	120			
Hexachloroethane	0.0294	0.00400	0.04000	0	73.4	28	120			
Nitrobenzene	0.0312	0.00400	0.04000	0	78.0	44	120			
Pentachlorophenol	0.0382	0.00400	0.04000	0	95.6	38	120			
Pyridine	0.0195	0.0100	0.04000	0	48.9	20	120			
Surr: 2,4,6-Tribromophenol	0.0696		0.08000		87.0	42	124			
Surr: 2-Fluorobiphenyl	0.0598		0.08000		74.8	48	120			
Surr: 2-Fluorophenol	0.0496		0.08000		62.0	20	120			
Surr: 4-Terphenyl-d14	0.0600		0.08000		75.0	51	135			
Surr: Nitrobenzene-d5	0.0620		0.08000		77.5	41	120			
Surr: Phenol-d5	0.0364		0.08000		45.5	20	120			

Sample ID: 1910253-02AMS Batch ID: 93516 TestNo: SW1311/8270D Units: mg/L
SampType: MS Run ID: GCMS9_191031A Analysis Date: 10/31/2019 4:09:00 PM Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.248	0.0348	0.3484	0	71.3	30	125			
2,4,5-Trichlorophenol	0.316	0.0348	0.3484	0	90.8	49	120			
2,4,6-Trichlorophenol	0.301	0.0348	0.3484	0	86.2	49	126			
2,4-Dinitrotoluene	0.310	0.0348	0.3484	0	89.1	51	120			
2-Methylphenol	0.263	0.0348	0.3484	0	75.5	38	120			
3&4-Methylphenol	0.251	0.0348	0.3484	0	72.0	32	120			
Hexachlorobenzene	0.296	0.0348	0.3484	0	84.9	52	120			
Hexachlorobutadiene	0.280	0.0348	0.3484	0	80.5	27	120			
Hexachloroethane	0.254	0.0348	0.3484	0	73.0	28	120			
Nitrobenzene	0.277	0.0348	0.3484	0	79.5	44	120			
Pentachlorophenol	0.337	0.0348	0.3484	0	96.8	38	120			
Pyridine	0.233	0.0871	0.3484	0	66.9	20	120			
Surr: 2,4,6-Tribromophenol	0.641		0.6969		92.0	42	124			
Surr: 2-Fluorobiphenyl	0.517		0.6969		74.2	48	120			
Surr: 2-Fluorophenol	0.533		0.6969		76.5	20	120			
Surr: 4-Terphenyl-d14	0.521		0.6969		74.8	51	135			
Surr: Nitrobenzene-d5	0.557		0.6969		80.0	41	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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_191031A

Sample ID: 1910253-02AMS	Batch ID: 93516	TestNo: SW1311/8270D	Units: mg/L
SampType: MS	Run ID: GCMS9_191031A	Analysis Date: 10/31/2019 4:09:00 PM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d5	0.481		0.6969		69.0	20	120			

Sample ID: 1910253-02AMSD	Batch ID: 93516	TestNo: SW1311/8270D	Units: mg/L
SampType: MSD	Run ID: GCMS9_191031A	Analysis Date: 10/31/2019 4:32:00 PM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.286	0.0355	0.3546	0	80.6	30	125	13.9	20	
2,4,5-Trichlorophenol	0.357	0.0355	0.3546	0	101	49	120	12.1	20	
2,4,6-Trichlorophenol	0.336	0.0355	0.3546	0	94.8	49	126	11.2	20	
2,4-Dinitrotoluene	0.356	0.0355	0.3546	0	100	51	120	13.8	20	
2-Methylphenol	0.296	0.0355	0.3546	0	83.6	38	120	11.9	20	
3&4-Methylphenol	0.281	0.0355	0.3546	0	79.3	32	120	11.3	20	
Hexachlorobenzene	0.327	0.0355	0.3546	0	92.4	52	120	10.2	20	
Hexachlorobutadiene	0.323	0.0355	0.3546	0	91.0	27	120	14.1	20	
Hexachloroethane	0.295	0.0355	0.3546	0	83.0	28	120	14.7	20	
Nitrobenzene	0.309	0.0355	0.3546	0	87.2	44	120	11.0	20	
Pentachlorophenol	0.379	0.0355	0.3546	0	107	38	120	11.6	20	
Pyridine	0.252	0.0887	0.3546	0	71.0	20	120	7.63	20	
Surr: 2,4,6-Tribromophenol	0.693		0.7092		97.8	42	124	0	0	
Surr: 2-Fluorobiphenyl	0.576		0.7092		81.2	48	120	0	0	
Surr: 2-Fluorophenol	0.589		0.7092		83.0	20	120	0	0	
Surr: 4-Terphenyl-d14	0.571		0.7092		80.5	51	135	0	0	
Surr: Nitrobenzene-d5	0.612		0.7092		86.2	41	120	0	0	
Surr: Phenol-d5	0.532		0.7092		75.0	20	120	0	0	

Sample ID: MB-93491-TCLP	Batch ID: 93516	TestNo: SW1311/8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS9_191031A	Analysis Date: 10/31/2019 4:54:00 PM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	<0.00861	0.0344								
2,4,5-Trichlorophenol	<0.00861	0.0344								
2,4,6-Trichlorophenol	<0.00861	0.0344								
2,4-Dinitrotoluene	<0.00861	0.0344								
2-Methylphenol	<0.00861	0.0344								
3&4-Methylphenol	<0.00861	0.0344								
Hexachlorobenzene	<0.00861	0.0344								
Hexachlorobutadiene	<0.00861	0.0344								
Hexachloroethane	<0.00861	0.0344								
Nitrobenzene	<0.0172	0.0344								
Pentachlorophenol	<0.0172	0.0344								
Pyridine	<0.0344	0.0861								

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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_191031A

Sample ID: MB-93491-TCLP	Batch ID: 93516	TestNo: SW1311/8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS9_191031A	Analysis Date: 10/31/2019 4:54:00 PM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	0.623		0.6885		90.5	42	124			
Surr: 2-Fluorobiphenyl	0.527		0.6885		76.5	48	120			
Surr: 2-Fluorophenol	0.527		0.6885		76.5	20	120			
Surr: 4-Terphenyl-d14	0.528		0.6885		76.8	51	135			
Surr: Nitrobenzene-d5	0.561		0.6885		81.5	41	120			
Surr: Phenol-d5	0.473		0.6885		68.8	20	120			

Sample ID: MB-93516	Batch ID: 93516	TestNo: SW1311/8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS9_191031A	Analysis Date: 10/31/2019 5:17:00 PM	Prep Date: 10/31/2019

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	<0.00100	0.00400								
2,4,5-Trichlorophenol	<0.00100	0.00400								
2,4,6-Trichlorophenol	<0.00100	0.00400								
2,4-Dinitrotoluene	<0.00100	0.00400								
2-Methylphenol	<0.00100	0.00400								
3&4-Methylphenol	<0.00100	0.00400								
Hexachlorobenzene	<0.00100	0.00400								
Hexachlorobutadiene	<0.00100	0.00400								
Hexachloroethane	<0.00100	0.00400								
Nitrobenzene	<0.00200	0.00400								
Pentachlorophenol	<0.00200	0.00400								
Pyridine	<0.00400	0.0100								
Surr: 2,4,6-Tribromophenol	0.0652		0.08000		81.5	42	124			
Surr: 2-Fluorobiphenyl	0.0574		0.08000		71.8	48	120			
Surr: 2-Fluorophenol	0.0416		0.08000		52.0	20	120			
Surr: 4-Terphenyl-d14	0.0582		0.08000		72.8	51	135			
Surr: Nitrobenzene-d5	0.0588		0.08000		73.5	41	120			
Surr: Phenol-d5	0.0260		0.08000		32.5	20	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: B-Environmental
Work Order: 1910220
Project: Hallettsville

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191028A

The QC data in batch 93464 applies to the following samples: 1910220-01B

Sample ID: 1910248-01A-DUP	Batch ID: 93464	TestNo: D2216		Units: WT%	
SampType: DUP	Run ID: PMOIST_191028A	Analysis Date: 10/29/2019 9:00:00 AM		Prep Date: 10/28/2019	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.7	0	0	10.60				0.614	30	

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

B Environmental Laboratory, LLC
1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Record

Batch # 91957 | TEMP UN-C: 24.9 | Page ___ of ___

☐ Check box if Billing is the same as Report Information | THERM ID# 4 | TEMP Corr: 24.9

Customer / Report Information

Name: Hallettsville
Attention: Robert Stratmann
Address: 101 N Main St Hallettsville TX 77964

Billing Information

Address: 101 N Main St
Attention: PO #
Project:
Comments:

Phone: 361-798-2201 | FAX:
EMAIL: csommer@cityofhallettsville.org

Requested Analysis | Completed By Laboratory

Full TCLP + PCB's Total So lids

Custody Seals Present: Yes ☐ No ☒
Intact: Yes ☐ No ☐

Sample Information			Matrix	Container							
Collected By: Robert Stratmann			C = Composite, G = Grab	DW - Drinking H20, S - Solid, WW - Waste H20, SL - Sludge, L - Liquid, w - Water	TYPE	NUMBER	Size	Preservative			LAB Sample Number
Client / Field Sample ID	Collected Date	Collected Time									
Sludge	10-22-19	1315	G	S	G	2	1Ltr	☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3	X X X	S192961027
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		
								☐ H2SO4 ☐ H3PO4 ☐ ICE ☐ ____	☐ HNO3 ☐ NaOH ☐ HCL ☐ Na2SO3		

Required Turnaround: ☐ Routine (6-10 Business days) | Expedite / Rush: ☐ 1 Business Day ☐ 2 Business Days ☐ 3 Business days ☐ 5 Business days ☐ Other ____ | REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: | Container Type: P=Plastic, G=Glass, V=Voa, O=Other | Carrier ID :

Relinquished By: Robert Stratmann	Date: 10/23/19	Time: 1020	Received By: P Honnen	Date: 10-23-19	Time: 10:20
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By	Date:	Time:	Received By:	Date:	Time:

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition			
%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition	
Q	Sample held beyond the accepted holding time

Order Comments	
200730.11	N/A

QC Results

QCBatch ID	QC ID	Parameter	% Recovery / RPD	Control Limits
QC200730.003	200730.02-04: Duplicate 3	Total Suspended Solids	8.05	0 - 15
	200730.15-03: Duplicate 2	Total Suspended Solids	1.13	0 - 15
	200730.16-02: Duplicate 1	Total Suspended Solids	1.26	0 - 15
	LCS 1	Total Suspended Solids	96.9	75 - 125
	LCS 2	Total Suspended Solids	99.6	75 - 125

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

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	LCS 3	Total Suspended Solids	94.2	75 - 125
	MBLK 1	Total Suspended Solids	0.0	0 - 0.5
	MBLK 2	Total Suspended Solids	0.0	0 - 0.5
	MBLK 3	Total Suspended Solids	0.0	0 - 0.5
QC200731.003	200730.08-02: Duplicate 2	pH (Lab)	0.28	0 - 15
	200730.11-01: Duplicate 1	pH (Lab)	0.82	0 - 15
	200730.13-01: Duplicate 3	pH (Lab)	0.14	0 - 15
	CCV 1	pH (Lab)	100.71	75 - 125
	ICV 1	pH (Lab)	99.43	75 - 125
QC200731.006	200730.02-01: Duplicate 2	Biochemical Oxygen Demand (BOD)	3.92	0 - 15.4
	200730.06-03: Duplicate 1	Biochemical Oxygen Demand (BOD)	3.94	0 - 15.4
	BOD GGA 1	Biochemical Oxygen Demand (BOD)	111.62	84.6 - 115.4
	Dilution Blank 1	Biochemical Oxygen Demand (BOD)	0.0	
	Dilution Blank 2	Biochemical Oxygen Demand (BOD)	0.0	
QC200731.007	200730.05-02: Duplicate 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	0 - 15.4
	200730.08-04: Duplicate 2	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	0 - 15.4
	CBOD GGA 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	111.11	84.6 - 115.4
	Dilution Blank 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	
	Dilution Blank 2	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	
QC200803.001	200728.02-01: MSDHR 1	Ammonia as N	1.15	0 - 15
	200728.02-01: MSHR 1	Ammonia as N	92.68	90 - 110
	200729.07-01: MSDHR 3	Ammonia as N	7.57	0 - 15
	200729.07-01: MSHR 3	Ammonia as N	121.04	90 - 110
	200730.06-01: MSDHR 4	Ammonia as N	1.07	0 - 15
	200730.06-01: MSHR 4	Ammonia as N	109.2	90 - 110
	200730.08-01: MSDHR 2	Ammonia as N	2.04	0 - 15
	200730.08-01: MSHR 2	Ammonia as N	95.22	90 - 110

1 Parameter not available for NELAP accreditation at the GBRA

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LCSDHR 1	Ammonia as N	1.0	0 - 15
LCSDHR 2	Ammonia as N	0.09	0 - 15
LCSDHR 3	Ammonia as N	1.32	0 - 15
LCSDHR 4	Ammonia as N	1.09	0 - 15
LCSHR 1	Ammonia as N	100.85	90 - 110
LCSHR 2	Ammonia as N	98.63	90 - 110
LCSHR 3	Ammonia as N	94.25	90 - 110
LCSHR 4	Ammonia as N	92.81	90 - 110
LOQHR 1	Ammonia as N	91.08	70 - 130
MBLK 1	Ammonia as N	-0.01	0 - 0.2
MBLK 2	Ammonia as N	-0.03	0 - 0.2
MBLK 3	Ammonia as N	0.0	0 - 0.2
MBLK 4	Ammonia as N	-0.02	0 - 0.2

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NA = not analyzed

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Seguin, TX 78155
(830)379-5822 ext 256

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Publish Date/Time: 8/26/2020 4:46 PM

Lab Sample ID: 200730.11-04 Collection Date/Time: 7/29/2020 11:05 AM Sample Matrix: Solids

Site: Luling North WWTF Receive Date/Time: 7/30/2020 11:50 AM Sample Type: Grab

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1	TCLP Arsenic	Subcontract	See Attached Report	mg/L	1			8/10/2020 04:31 PM			
1	TCLP Barium	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Cadmium	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Chromium	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Lead	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Mercury	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Selenium	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP Silver	Subcontract	See Attached Report		1			8/10/2020 04:31 PM			
1	TCLP gamma-BHC (Lindane)	Subcontract	See Attached Report	mg/L	1			8/13/2020 01:12 AM			
1	TCLP Chlordane	Subcontract	See Attached Report		1			8/13/2020 01:12 AM			
1	TCLP Endrin	Subcontract	See Attached Report		1			8/13/2020 01:12 AM			
1	TCLP Heptachlor	Subcontract	See Attached Report		1			8/13/2020 01:12 AM			
1	TCLP Heptachlor Epoxide	Subcontract	See		1			8/13/2020 01:12 AM			

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NA = not analyzed

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			Attached Report		
1	TCLP Methoxychlor	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Toxaphene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2,4 D	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2,4,5-TP (Silvex)	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 1,2-Dichloroethane	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 1,1-Dichloroethene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 1,4 Dichlorobenzene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Benzene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Carbon tetrachloride	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Chlorobenzene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Chloroform	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP MEK	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Tetrachloroethylene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Trichloroethylene	Subcontract	See	1	8/13/2020 01:12 AM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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			Attached Report		
1	TCLP Vinyl chloride	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 3 and 4-Methylphenol (m and p-Cresol)	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2-Methylphenol (o-Cresol)	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2,4-Dinitrotoluene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Hexachlorobenzene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Hexachlorobutadiene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Hexachloroethane	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Nitrobenzene	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Pentachlorophenol	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Pyridine	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2,4,6-Trichlorophenol	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP 2,4,5-Trichlorophenol	Subcontract	See Attached Report	1	8/13/2020 01:12 AM
1	TCLP Total Cresols	Subcontract	See Attached Report	1	8/13/2020 01:12 AM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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Subcontract methods are tested by an external laboratory. See subcontracted report for further details.

933 East Court Street
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ANA LAB
Testing the Limits of Science and Service

GBRL-C

GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
931514

Printed: 08/24/2020

Results

Sample Results

1911499 **200730.11-04** Received: 08/07/2020

Solid & Chemical Materials | Collected by: Client | GBRA/Seguin | PO: dept= LabInvoices@gbra.org
Taken: 07/29/2020 11:05:00

EPA 6020A Prepared: 910715 08/10/2020 11:15:00 Analyzed: 910871 08/10/2020 16:31:00 JAB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	06
NELAC	TCLP Barium	0.152	mg/L	0.050		7440-39-3	06
NELAC	TCLP Cadmium	<0.005	mg/L	0.005		7440-43-9	06
NELAC	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	06
NELAC	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	06
NELAC	TCLP Selenium	<0.050	mg/L	0.050		7782-49-2	06
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	06

EPA 7470 A Prepared: 910722 08/10/2020 11:45:00 Analyzed: 910807 08/10/2020 15:04:00 LPS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	0.0046	mg/L	0.002		7439-97-6	07

EPA 8081A Prepared: 910778 08/10/2020 11:00:00 Analyzed: 911508 08/13/2020 01:12:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.00005	mg/L	0.00005		57-74-9	08
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	08
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	08
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	08
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	08
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	08
NELAC	TCLP Toxaphene	<0.00005	mg/L	0.00005		8001-35-2	08

EPA 8151 Prepared: 911514 08/13/2020 14:30:00 Analyzed: 911823 08/14/2020 18:47:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	12
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	12

NELAP-accredited #T104704201-20-17

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931514

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Kylie Gudgell
Regional Laboratory
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Seguin, TX 78155-5819

Printed: 08/24/2020

1911499 200730.11-04 Received: 08/07/2020

Solid & Chemical Materials Collected by: Client GBRA/Seguin PO: dept= LabInvoices@gbra.org
Taken: 07/29/2020 11:05:00

EPA 8260B Prepared: 911295 08/12/2020 16:10:00 Analyzed 912381 08/18/2020 20:07:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.020	mg/L	0.020		75-35-4	11
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	11
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	11
NELAC	TCLP Benzene	<0.0101	mg/L	0.0101	B	71-43-2	11
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	11
NELAC	TCLP Chlorobenzene	<0.020	mg/L	0.020		108-90-7	11
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	11
NELAC	TCLP MEK	<0.010	mg/L	0.010		78-93-3	11
NELAC	TCLP Tetrachloroethylene	<0.020	mg/L	0.020		127-18-4	11
NELAC	TCLP Trichloroethylene	<0.0104	mg/L	0.0104		79-01-6	11
NELAC	TCLP Vinyl chloride	<0.020	mg/L	0.020		75-01-4	11

EPA 8270C Prepared: 910925 08/11/2020 11:00:00 Analyzed 912245 08/18/2020 15:00:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	09
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	09
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	09
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100			09
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080			09
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	09
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	09
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	09
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	09
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	09
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	09

EPA 8270C Prepared: 910925 08/11/2020 11:00:00 Calculated 912245 08/20/2020 16:38:26 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080		108-39-4,ect.	09

NELAP-accredited #T104704201-20-17

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1911499 200730.11-04 Received: 08/07/2020

dept= LabInvoices@gbra.org

07/29/2020

	Cooler Return	Prepared:		08/12/2020	15:00:00	Analyzed	08/12/2020	15:00:00	MG3
	Return Cooler/No bottles Require	Returned							
	EPA 3510C	Prepared:	910608	08/09/2020	14:25:00	Analyzed 910778	08/10/2020	11:00:00	CRS
	TCLP Liq-Liq Extr. W/Hex Exch.	10/200	ml						05
	EPA 3510C	Prepared:	910608	08/09/2020	14:25:00	Analyzed 910925	08/11/2020	11:00:00	DWN
	TCLP Liquid-Liquid Extract	1/100	ml						05
	EPA 1311	Prepared:	910608	08/09/2020	14:25:00	Analyzed 910608	08/09/2020	14:25:00	TDD
NELAC	TCLP Extraction Non-Volatile	SOLID EXT 1	ml						01
	EPA 1311ZHE	Prepared:	911295	08/12/2020	16:10:00	Analyzed 911295	08/12/2020	16:10:00	TDD
NELAC	TCLP Extraction ZHE Volatiles	30.2% SOLID	ml						01
	EPA 3005A	Prepared:	910608	08/09/2020	14:25:00	Analyzed 910715	08/10/2020	11:15:00	TES
NELAC	Metals Digestion TCLP Extract	50/10	ml						04
	EPA 7470A	Prepared:	910608	08/09/2020	14:25:00	Analyzed 910722	08/10/2020	11:45:00	ALH
NELAC	Metals Digestion TCLP 7470	50/2.5	ml						04
	EPA 8081A	Prepared:	910778	08/10/2020	11:00:00	Analyzed 911508	08/13/2020	01:12:00	EMT

NELAP-accredited #T104704201-20-17

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1911499 200730.11-04 Received: 08/07/2020

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07/29/2020

EPA 8081A		*Prepared:*	*910778*	*08/10/2020*	*11:00:00*	*Analyzed*	*911508*	*08/13/2020*	*01:12:00*	*EMT*
NELAC	**GC TCLP Pesticide**	**Entered**								08
EPA 8151		*Prepared:*	*911514*	*08/13/2020*	*14:30:00*	*Analyzed*	*911823*	*08/14/2020*	*18:47:00*	*EMT*
NELAC	**GC TCLP Herbicide**	**Entered**								12
EPA 8151A (Prep)		*Prepared:*	*910608*	*08/09/2020*	*14:25:00*	*Analyzed*	*911514*	*08/13/2020*	*14:30:00*	*MCC*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							05
EPA 8260B		*Prepared:*	*911295*	*08/12/2020*	*16:10:00*	*Analyzed*	*912381*	*08/18/2020*	*20:07:00*	*DWL*
NELAC	**MS TCLP Volatile Analysis**	**Entered**								11
EPA 8270C		*Prepared:*	*910925*	*08/11/2020*	*11:00:00*	*Analyzed*	*912245*	*08/18/2020*	*15:00:00*	*DWL*
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**								09

1911500 200730.11-05 Received: 08/07/2020

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07/29/2020

EPA 3510C		*Prepared:*	*910608*	*08/09/2020*	*14:25:00*	*Analyzed*	*910778*	*08/10/2020*	*11:00:00*	*CRS*
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**							05

GBRA LAB
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GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

Customer Information

Customer Acct.#: 420083		RUSH Analysis : ____ by EOB (Additional Fees Apply)	
Name: City of Luling		Billing Address:	
Address: 509 E. Crockett. Dr., Luling, Tx 78648		Fax #: 830-875-5217	
Phone #: 830-875-5131		Email 1:	publicworks@cityofluling.net
Thermometer #: 22		Email 2:	wastewatersuper@cityofluling.net
Receipt Temp (°C) Observed / Corrected: 1.5 1.2		Chlorine Strip GBRA Reagent #	Chlorine : Absent/ Present
Ice: Yes / No (Circle One)		pH Paper GBRA Reagent #: 022819-02	
# of Containers: 8	Condition of Containers (Intact) Yes-No (Circle One)	Residual Chlorine (Total/Free) Results:	

Date Collected	Time Collected	Matrix (WW=Wastewater, GW=Drinking Water, SW=Surface Water, S=Soil/Solid)	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	200730.11 GBRA Sample ID	Bottle I.D.#	pH	Type of Preservation	Rush sample (2x, 3x, 4x)
7-29-20	3:00 PM	WW	4L P	NORTH WWTF		C	CBOD, TSS	-01			ICE	
7-29-20	3:00 PM	WW	1L-P	NORTH WWTF		C	NH3	1		22	H2SO4	
7-29-20	3:30 PM	WW	4L P	SOUTH WWTF		C	BOD, TSS	-02			ICE	
7-29-20	9:15 AM	WW	4L P	OTTINE		G	BOD, TSS	-03			ICE	
7-29-20	11:05	S	1L G	North		G	TCLP Full	-04				
		~~WW~~	~~100mL-P~~	North E.coli		~~T~~	~~E. coli~~				~~Na2S2O3~~	
		WW	100mL-P	South E. coli			E. coli				Na2S2O3	
7-29-20	11:05 AM	S	1L G	North		G	TCLP Full					
7-29-20	9:40 AM	S	1L G	OTTINE		G	TCLP Full	-05				
7-29-20	9:40 AM	S	1L G	OTTINE		G	TCLP Full	1				

Collected By: Bill Schulle	Date/Time: 7-30-20 11:50 AM	Transferred To: LAB HM	Date/Time: 11:50 7/30/2020
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

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Project
931514

GBRL-C

GBRA/Seguin
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Seguin, TX 78155-5819

Printed 08/24/2020 17:44

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Quality Control

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Analytical Set 910807 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	910722	ND	0.000075	0.0001	mg/L	121475727

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0055	0.005	mg/L	110	90.0 - 110	121475713
TCLP Mercury	0.00497	0.005	mg/L	99.4	90.0 - 110	121475717
TCLP Mercury	0.00514	0.005	mg/L	103	90.0 - 110	121475726
TCLP Mercury	0.00485	0.005	mg/L	97.0	90.0 - 110	121475733
TCLP Mercury	0.00472	0.005	mg/L	94.4	90.0 - 110	121475739

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0193	0.02	mg/L	96.5	90.0 - 110	121475712

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0051	0.005	mg/L	102	90.0 - 110	121475711

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	910722	0.00526	0.00534	0.005	85.0 - 118	105	107	mg/L	1.51	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	1911228	0.104	0.0978	0.0004	0.100	80.9 - 121	104	97.4	mg/L	6.17	15.0

Analytical Set 910871 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	910715	ND	0.010	0.010	mg/L	121477387
TCLP Barium	910715	ND	0.010	0.010	mg/L	121477387
TCLP Cadmium	910715	ND	0.001	0.001	mg/L	121477387
TCLP Chromium	910715	ND	0.010	0.010	mg/L	121477387
TCLP Lead	910715	ND	0.010	0.010	mg/L	121477387
TCLP Selenium	910715	ND	0.010	0.010	mg/L	121477387
TCLP Silver	910715	ND	0.010	0.010	mg/L	121477387

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0496	0.05	mg/L	99.2	90.0 - 110	121477386
TCLP Arsenic	0.0512	0.05	mg/L	102	90.0 - 110	121477393
TCLP Arsenic	0.0502	0.05	mg/L	100	90.0 - 110	121477396
TCLP Arsenic	0.0497	0.05	mg/L	99.4	90.0 - 110	121477400
TCLP Arsenic	0.0506	0.05	mg/L	101	90.0 - 110	121477407

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0496	0.05	mg/L	99.2	90.0 - 110	121477418
TCLP Arsenic	0.0498	0.05	mg/L	99.6	90.0 - 110	121477420
TCLP Barium	0.0516	0.05	mg/L	103	90.0 - 110	121477386
TCLP Barium	0.0522	0.05	mg/L	104	90.0 - 110	121477393
TCLP Barium	0.0516	0.05	mg/L	103	90.0 - 110	121477396
TCLP Barium	0.0505	0.05	mg/L	101	90.0 - 110	121477400
TCLP Barium	0.0496	0.05	mg/L	99.2	90.0 - 110	121477407
TCLP Barium	0.0491	0.05	mg/L	98.2	90.0 - 110	121477418
TCLP Barium	0.0498	0.05	mg/L	99.6	90.0 - 110	121477420
TCLP Cadmium	0.0501	0.05	mg/L	100	90.0 - 110	121477386
TCLP Cadmium	0.0497	0.05	mg/L	99.4	90.0 - 110	121477393
TCLP Cadmium	0.0499	0.05	mg/L	99.8	90.0 - 110	121477396
TCLP Cadmium	0.0494	0.05	mg/L	98.8	90.0 - 110	121477400
TCLP Cadmium	0.0495	0.05	mg/L	99.0	90.0 - 110	121477407
TCLP Cadmium	0.0492	0.05	mg/L	98.4	90.0 - 110	121477418
TCLP Cadmium	0.0491	0.05	mg/L	98.2	90.0 - 110	121477420
TCLP Chromium	0.0483	0.05	mg/L	96.6	90.0 - 110	121477386
TCLP Chromium	0.0492	0.05	mg/L	98.4	90.0 - 110	121477393
TCLP Chromium	0.0495	0.05	mg/L	99.0	90.0 - 110	121477396
TCLP Chromium	0.0487	0.05	mg/L	97.4	90.0 - 110	121477400
TCLP Chromium	0.0478	0.05	mg/L	95.6	90.0 - 110	121477407
TCLP Chromium	0.048	0.05	mg/L	96.0	90.0 - 110	121477418
TCLP Chromium	0.048	0.05	mg/L	96.0	90.0 - 110	121477420
TCLP Lead	0.0466	0.05	mg/L	93.2	90.0 - 110	121477386
TCLP Lead	0.0466	0.05	mg/L	93.2	90.0 - 110	121477393
TCLP Lead	0.0476	0.05	mg/L	95.2	90.0 - 110	121477396
TCLP Lead	0.0484	0.05	mg/L	96.8	90.0 - 110	121477400
TCLP Lead	0.0474	0.05	mg/L	94.8	90.0 - 110	121477407
TCLP Lead	0.0475	0.05	mg/L	95.0	90.0 - 110	121477418
TCLP Lead	0.0464	0.05	mg/L	92.8	90.0 - 110	121477420
TCLP Selenium	0.0498	0.05	mg/L	99.6	90.0 - 110	121477386
TCLP Selenium	0.0517	0.05	mg/L	103	90.0 - 110	121477393
TCLP Selenium	0.0514	0.05	mg/L	103	90.0 - 110	121477396
TCLP Selenium	0.0491	0.05	mg/L	98.2	90.0 - 110	121477400
TCLP Selenium	0.0519	0.05	mg/L	104	90.0 - 110	121477407
TCLP Selenium	0.0501	0.05	mg/L	100	90.0 - 110	121477418
TCLP Selenium	0.0496	0.05	mg/L	99.2	90.0 - 110	121477420
TCLP Silver	0.0517	0.05	mg/L	103	90.0 - 110	121477386
TCLP Silver	0.0515	0.05	mg/L	103	90.0 - 110	121477393
TCLP Silver	0.0515	0.05	mg/L	103	90.0 - 110	121477396
TCLP Silver	0.0512	0.05	mg/L	102	90.0 - 110	121477400
TCLP Silver	0.0508	0.05	mg/L	102	90.0 - 110	121477407
TCLP Silver	0.0503	0.05	mg/L	101	90.0 - 110	121477418

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Silver	0.0499	0.05	mg/L	99.8	90.0 - 110	121477420

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0499	0.05	mg/L	99.8	90.0 - 110	121477381
TCLP Barium	0.0518	0.05	mg/L	104	90.0 - 110	121477381
TCLP Cadmium	0.0511	0.05	mg/L	102	90.0 - 110	121477381
TCLP Chromium	0.0508	0.05	mg/L	102	90.0 - 110	121477381
TCLP Lead	0.0484	0.05	mg/L	96.8	90.0 - 110	121477381
TCLP Selenium	0.0511	0.05	mg/L	102	90.0 - 110	121477381
TCLP Silver	0.0511	0.05	mg/L	102	90.0 - 110	121477381

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	910715	0.490	0.485	0.500	89.7 - 114	98.0	97.0	mg/L	1.03	14.0
TCLP Barium	910715	0.490	0.488	0.500	86.9 - 115	98.0	97.6	mg/L	0.409	14.0
TCLP Cadmium	910715	0.246	0.245	0.250	90.1 - 112	98.4	98.0	mg/L	0.407	14.0
TCLP Chromium	910715	0.493	0.493	0.500	88.6 - 120	98.6	98.6	mg/L	0	14.0
TCLP Lead	910715	0.465	0.467	0.500	90.4 - 116	93.0	93.4	mg/L	0.429	14.0
TCLP Selenium	910715	0.497	0.494	0.500	89.2 - 124	99.4	98.8	mg/L	0.605	14.0
TCLP Silver	910715	0.105	0.104	0.100	85.0 - 114	105	104	mg/L	0.957	14.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	9.49	10	mg/L	94.9	90.0 - 110	121477385
TCLP Barium	9.59	10	mg/L	95.9	90.0 - 110	121477385
TCLP Cadmium	9.77	10	mg/L	97.7	90.0 - 110	121477385
TCLP Chromium	9.77	10	mg/L	97.7	90.0 - 110	121477385
TCLP Lead	9.15	10	mg/L	91.5	90.0 - 110	121477385
TCLP Selenium	10.1	10	mg/L	101	90.0 - 110	121477385

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	1911228	2.45	2.44	ND	2.50	88.9 - 115	98.0	97.6	mg/L	0.409	20.0
TCLP Barium	1911228	4.68	4.64	2.05	2.50	81.0 - 121	105	104	mg/L	1.53	20.0
TCLP Cadmium	1911228	1.22	1.23	ND	1.25	89.2 - 113	97.6	98.4	mg/L	0.816	20.0
TCLP Chromium	1911228	2.51	2.46	ND	2.50	93.2 - 114	100	98.4	mg/L	2.01	20.0
TCLP Lead	1911228	2.37	2.36	ND	2.50	90.1 - 115	94.8	94.4	mg/L	0.423	20.0
TCLP Selenium	1911228	2.46	2.44	ND	2.50	87.2 - 125	98.4	97.6	mg/L	0.816	20.0
TCLP Silver	1911228	0.522	0.525	ND	0.500	84.5 - 114	104	105	mg/L	0.573	20.0

Analytical Set 911508 — EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	910608	ND	0.0000018	0.00001	mg/L	121504527

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GBRA/Seguin
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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Endrin	910608	ND	0.000538	0.001	mg/L	121504527
TCLP gamma-BHC (Lindane)	910608	ND	0.000385	0.001	mg/L	121504527
TCLP Heptachlor	910608	ND	0.000207	0.001	mg/L	121504527
TCLP Heptachlor Epoxide	910608	ND	0.00066	0.001	mg/L	121504527
TCLP Methoxychlor	910608	ND	0.000898	0.001	mg/L	121504527
TCLP Toxaphene	910608	ND	0.0000037	0.00001	mg/L	121504527
TCLP Chlordane	910778	ND	0.0000018	0.00001	mg/L	121504524
TCLP Endrin	910778	ND	0.000538	0.001	mg/L	121504524
TCLP gamma-BHC (Lindane)	910778	ND	0.000385	0.001	mg/L	121504524
TCLP Heptachlor	910778	ND	0.000207	0.001	mg/L	121504524
TCLP Heptachlor Epoxide	910778	ND	0.00066	0.001	mg/L	121504524
TCLP Methoxychlor	910778	ND	0.000898	0.001	mg/L	121504524
TCLP Toxaphene	910778	ND	0.0000037	0.00001	mg/L	121504524

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.102	0.100	mg/L	102	70.0 - 130	121490832
TCLP Endrin	0.113	0.100	mg/L	113	70.0 - 130	121490842
TCLP Endrin	0.103	0.100	mg/L	103	70.0 - 130	121490845
TCLP gamma-BHC (Lindane)	0.103	0.100	mg/L	103	70.0 - 130	121490832
TCLP gamma-BHC (Lindane)	0.101	0.100	mg/L	101	70.0 - 130	121490842
TCLP gamma-BHC (Lindane)	0.0958	0.100	mg/L	95.8	70.0 - 130	121490845
TCLP Heptachlor	0.110	0.100	mg/L	110	70.0 - 130	121490832
TCLP Heptachlor	0.122	0.100	mg/L	122	70.0 - 130	121490842
TCLP Heptachlor	0.111	0.100	mg/L	111	70.0 - 130	121490845
TCLP Heptachlor Epoxide	0.106	0.100	mg/L	106	70.0 - 130	121490832
TCLP Heptachlor Epoxide	0.100	0.100	mg/L	100	70.0 - 130	121490842
TCLP Heptachlor Epoxide	0.097	0.100	mg/L	97.0	70.0 - 130	121490845
TCLP Methoxychlor	0.104	0.100	mg/L	104	70.0 - 130	121490832
TCLP Methoxychlor	0.114	0.100	mg/L	114	70.0 - 130	121490842
TCLP Methoxychlor	0.110	0.100	mg/L	110	70.0 - 130	121490845

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	0.104	0.100	mg/L	104	10.0 - 150	121490832
Decachlorobiphenyl		CCV	0.0898	0.100	mg/L	89.8	10.0 - 150	121490842
Decachlorobiphenyl		CCV	0.0685	0.100	mg/L	68.5	10.0 - 150	121490845
Tetrachloro-m-Xylene (Surr)		CCV	0.107	0.100	mg/L	107	10.0 - 150	121490832
Tetrachloro-m-Xylene (Surr)		CCV	0.102	0.100	mg/L	102	10.0 - 150	121490842
Tetrachloro-m-Xylene (Surr)		CCV	0.102	0.100	mg/L	102	10.0 - 150	121490845

Analytical Set 911549 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File

Quality Control

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	910608	ND	0.000961	0.005	mg/L	121491436
TCLP 2,4,6-Trichlorophenol	910608	ND	0.00124	0.002	mg/L	121491436
TCLP 2,4-Dinitrotoluene	910608	ND	0.00135	0.002	mg/L	121491436
TCLP 2-Methylphenol (o-Cresol)	910608	ND	0.00848	0.010	mg/L	121491436
TCLP 3&4-Methylphenol (m&p-Creso	910608	ND	0.00778	0.008	mg/L	121491436
TCLP Hexachlorobenzene	910608	ND	0.000871	0.001	mg/L	121491436
TCLP Hexachlorobutadiene	910608	ND	0.00103	0.00103	mg/L	121491436
TCLP Hexachloroethane	910608	ND	0.00105	0.002	mg/L	121491436
TCLP Nitrobenzene	910608	ND	0.000271	0.001	mg/L	121491436
TCLP Pentachlorophenol	910608	ND	0.00096	0.005	mg/L	121491436
TCLP Pyridine (Reg. Limit 5)	910608	ND	0.00135	0.00135	mg/L	121491436
TCLP 2,4,5-Trichlorophenol	910925	ND	0.000961	0.005	mg/L	121491432
TCLP 2,4,6-Trichlorophenol	910925	ND	0.00124	0.002	mg/L	121491432
TCLP 2,4-Dinitrotoluene	910925	ND	0.00135	0.002	mg/L	121491432
TCLP 2-Methylphenol (o-Cresol)	910925	ND	0.00848	0.010	mg/L	121491432
TCLP 3&4-Methylphenol (m&p-Creso	910925	ND	0.00778	0.008	mg/L	121491432
TCLP Hexachlorobenzene	910925	ND	0.000871	0.001	mg/L	121491432
TCLP Hexachlorobutadiene	910925	ND	0.00103	0.00103	mg/L	121491432
TCLP Hexachloroethane	910925	ND	0.00105	0.002	mg/L	121491432
TCLP Nitrobenzene	910925	ND	0.000271	0.001	mg/L	121491432
TCLP Pentachlorophenol	910925	ND	0.00096	0.005	mg/L	121491432
TCLP Pyridine (Reg. Limit 5)	910925	ND	0.00135	0.00135	mg/L	121491432

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	910925	0.0196	0.0191	0.025	39.2 - 111	78.4	76.4	mg/L	2.58	30.0
TCLP 2,4,6-Trichlorophenol	910925	0.0183	0.0181	0.025	38.3 - 109	73.2	72.4	mg/L	1.10	30.0
TCLP 2,4-Dinitrotoluene	910925	0.0216	0.0198	0.025	36.8 - 131	86.4	79.2	mg/L	8.70	30.0
TCLP 2-Methylphenol (o-Cresol)	910925	0.0164	0.0162	0.025	21.4 - 88.6	65.6	64.8	mg/L	1.23	30.0
TCLP 3&4-Methylphenol (m&p-Creso	910925	0.0156	0.0156	0.025	13.7 - 93.8	62.4	62.4	mg/L	0	30.0
TCLP Hexachlorobenzene	910925	0.021	0.0211	0.025	41.6 - 122	84.0	84.4	mg/L	0.475	30.0
TCLP Hexachlorobutadiene	910925	0.00909	0.00842	0.025	17.2 - 89.9	36.4	33.7	mg/L	7.70	30.0
TCLP Hexachloroethane	910925	0.0119	0.0109	0.025	14.2 - 90.3	47.6	43.6	mg/L	8.77	30.0
TCLP Nitrobenzene	910925	0.0208	0.0207	0.025	34.2 - 114	83.2	82.8	mg/L	0.482	30.0
TCLP Pentachlorophenol	910925	0.0176	0.0162	0.025	17.5 - 128	70.4	64.8	mg/L	8.28	30.0
TCLP Pyridine (Reg. Limit 5)	910925	0.00829	0.0071	0.025	0.154 - 84.1	33.2	28.4	mg/L	15.6	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1910086	0.174	0	ND	0.250	30.5 - 121	69.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	1910086	0.176	0	ND	0.250	18.8 - 133	70.4		mg/L		30.0

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4-Dinitrotoluene	1910086	0.0023	0	ND	0.250	34.3 - 133	0.920 *		mg/L		30.0
TCLP Hexachlorobenzene	1910086	0.181	0	ND	0.250	32.0 - 131	72.4		mg/L		30.0
TCLP Hexachlorobutadiene	1910086	0.106	0	ND	0.250	11.4 - 88.3	42.4		mg/L		30.0
TCLP Hexachloroethane	1910086	0.135	0	ND	0.250	8.60 - 87.8	54.0		mg/L		30.0
TCLP Nitrobenzene	1910086	0.128	0	ND	0.250	27.8 - 121	51.2		mg/L		30.0
TCLP Pentachlorophenol	1910086	0.140	0	ND	0.250	7.03 - 143	56.0		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	1910086	0.0986	0	ND	0.250	0.100 - 99.4	39.4		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	910608	Blank	2.53	3.33	mg/L	76.0	0.100 - 177	121491436
2-Fluorobiphenyl-SURR	910608	Blank	30.4	50.0	mg/L	60.8	13.0 - 136	121491436
2-Fluorophenol-SURR	910608	Blank	48.0	100	mg/L	48.0	7.70 - 84.2	121491436
4-Terphenyl-d14-SURR	910608	Blank	33.6	50.0	mg/L	67.2	11.1 - 146	121491436
Nitrobenzene-d5-SURR	910608	Blank	31.8	50.0	mg/L	63.6	15.7 - 135	121491436
Phenol-d6-SURR	910608	Blank	31.8	100	mg/L	31.8	0.100 - 70.0	121491436

Analytical Set 911823 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	910608	ND	0.000159	0.0005	mg/L	121497516
TCLP 2,4,5-TP (Silvex)	910608	ND	0.0000893	0.0003	mg/L	121497516
TCLP 2,4 D	911514	ND	0.000159	0.0005	mg/L	121497513
TCLP 2,4,5-TP (Silvex)	911514	ND	0.0000893	0.0003	mg/L	121497513

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.154	0.150	mg/L	103	70.0 - 130	121497511
TCLP 2,4 D	0.156	0.150	mg/L	104	70.0 - 130	121497512
TCLP 2,4 D	0.140	0.150	mg/L	93.0	70.0 - 130	121497525
TCLP 2,4,5-TP (Silvex)	0.153	0.150	mg/L	102	70.0 - 130	121497511
TCLP 2,4,5-TP (Silvex)	0.157	0.150	mg/L	105	70.0 - 130	121497512
TCLP 2,4,5-TP (Silvex)	0.144	0.150	mg/L	95.9	70.0 - 130	121497525

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	911514	0.000762	0.000879	0.001	0.100 - 197	76.2	87.9	mg/L	14.3	30.0
TCLP 2,4,5-TP (Silvex)	911514	0.000681	0.000794	0.001	13.9 - 165	68.1	79.4	mg/L	15.3	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	1911103	0.815	0	ND	1.00	0.100 - 228	81.5		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	1911103	0.726	0	ND	1.00	0.912 - 168	72.6		mg/L		30.0

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.171	0.200	mg/L	85.5	0.100 - 333	121497511
2,4-Dichlorophenylacetic Acid		CCV	0.173	0.200	mg/L	86.5	0.100 - 333	121497512
2,4-Dichlorophenylacetic Acid		CCV	0.161	0.200	mg/L	80.5	0.100 - 333	121497525
2,4-Dichlorophenylacetic Acid	910608	Blank	0.161	0.200	mg/L	80.5	0.100 - 333	121497516
2,4-Dichlorophenylacetic Acid	911514	Blank	0.139	0.200	mg/L	69.5	0.100 - 333	121497513
2,4-Dichlorophenylacetic Acid	911514	LCS	0.108	0.200	mg/L	54.0	0.100 - 333	121497514
2,4-Dichlorophenylacetic Acid	911514	LCS Dup	0.126	0.200	mg/L	63.0	0.100 - 333	121497515
2,4-Dichlorophenylacetic Acid	1911103	MS	1.16	2.00	mg/L	58.0	0.100 - 333	121497524
2,4-Dichlorophenylacetic Acid	1911499	UNKNOWN.50		2.00	mg/L	75.0	0.100 - 333	121497517
2,4-Dichlorophenylacetic Acid	1911500	UNKNOWN.57		2.00	mg/L	78.5	0.100 - 333	121497518

Analytical Set 912144 — EPA 8151

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	910778	0.069	0.0642	0.100	42.0 - 137	69.0	64.2	mg/L	7.21	30.0
TCLP gamma-BHC (Lindane)	910778	0.0631	0.0656	0.100	33.6 - 127	63.1	65.6	mg/L	3.89	30.0
TCLP Heptachlor	910778	0.0647	0.0545	0.100	23.6 - 127	64.7	54.5	mg/L	17.1	30.0
TCLP Heptachlor Epoxide	910778	0.0607	0.0572	0.100	41.2 - 127	60.7	57.2	mg/L	5.94	30.0
TCLP Methoxychlor	910778	0.0764	0.0679	0.100	32.6 - 146	76.4	67.9	mg/L	11.8	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	1911500	0.00326	0	ND	0.005	25.1 - 151	65.2		mg/L		30.0
TCLP gamma-BHC (Lindane)	1911500	0.00308	0	ND	0.005	20.6 - 144	61.6		mg/L		30.0
TCLP Heptachlor	1911500	0.00286	0	ND	0.005	15.8 - 138	57.2		mg/L		30.0
TCLP Heptachlor Epoxide	1911500	0.00296	0	ND	0.005	31.8 - 132	59.2		mg/L		30.0
TCLP Methoxychlor	1911500	0.00336	0	ND	0.005	10.3 - 186	67.2		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	910608	Blank	0.0471	0.100	mg/L	47.1	10.0 - 150	121505983
Tetrachloro-m-Xylene (Surr)	910608	Blank	0.0572	0.100	mg/L	57.2	10.0 - 150	121505983
Decachlorobiphenyl	910778	Blank	0.0298	0.100	mg/L	29.8	10.0 - 150	121505978
Decachlorobiphenyl	910778	LCS	0.0474	0.100	mg/L	47.4	10.0 - 150	121505981
Decachlorobiphenyl	910778	LCS Dup	0.045	0.100	mg/L	45.0	10.0 - 150	121505982
Tetrachloro-m-Xylene (Surr)	910778	Blank	0.0417	0.100	mg/L	41.7	10.0 - 150	121505978
Tetrachloro-m-Xylene (Surr)	910778	LCS	0.0533	0.100	mg/L	53.3	10.0 - 150	121505981
Tetrachloro-m-Xylene (Surr)	910778	LCS Dup	0.0506	0.100	mg/L	50.6	10.0 - 150	121505982
Decachlorobiphenyl	1911500	MS	0.00272	0.005	mg/L	54.4	10.0 - 150	121505986
Tetrachloro-m-Xylene (Surr)	1911500	MS	0.00237	0.005	mg/L	47.4	10.0 - 150	121505986

Analytical Set 912245 — EPA 8270C

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File

Quality Control

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	57.2	50.0	mg/L	114	70.0 - 130	121508136
TCLP 2,4,6-Trichlorophenol	46.2	50.0	mg/L	92.4	70.0 - 130	121508136
TCLP 2,4-Dinitrotoluene	43.0	50.0	mg/L	86.0	70.0 - 130	121508136
TCLP 2-Methylphenol (o-Cresol)	41.2	50.0	mg/L	82.3	70.0 - 130	121508136
TCLP 3&4-Methylphenol (m&p-Creso	40.5	50.0	mg/L	80.9	70.0 - 130	121508136
TCLP Hexachlorobenzene	56.7	50.0	mg/L	113	70.0 - 130	121508136
TCLP Hexachlorobutadiene	44.7	50.0	mg/L	89.3	70.0 - 130	121508136
TCLP Hexachloroethane	48.1	50.0	mg/L	96.2	70.0 - 130	121508136
TCLP Nitrobenzene	41.8	50.0	mg/L	83.6	70.0 - 130	121508136
TCLP Pentachlorophenol	47.0	50.0	mg/L	93.9	70.0 - 130	121508136
TCLP Pyridine (Reg. Limit 5)	45.7	50.0	mg/L	91.3	70.0 - 130	121508136

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	598277	198	31154	50.1	40.0 - 60.0	121508135
DFTPP Mass 197	598277	198	0	0.0	0 - 1.00	121508135
DFTPP Mass 198	598277	198	62156	100.0	100 - 100	121508135
DFTPP Mass 199	598277	198	4218	6.8	5.00 - 9.00	121508135
DFTPP Mass 275	598277	198	17319	27.9	10.0 - 30.0	121508135
DFTPP Mass 365	598277	198	2604	4.2	1.00 - 100	121508135
DFTPP Mass 441	598277	443	8324	78.7	0 - 100	121508135
DFTPP Mass 442	598277	198	55165	88.8	40.0 - 100	121508135
DFTPP Mass 443	598277	442	10578	19.2	17.0 - 23.0	121508135
DFTPP Mass 51	598277	198	19777	31.8	30.0 - 60.0	121508135
DFTPP Mass 68	598277	69.0	0	0.0	0 - 2.00	121508135
DFTPP Mass 69	598277	198	23967	38.6	0 - 100	121508135
DFTPP Mass 70	598277	69.0	122	0.5	0 - 2.00	121508135

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	597177	CCV	168900	168900	84430	253300	121508136	597177
Acenaphthene-d10-ISTD	597177	CCV	368200	368200	184100	552400	121508136	597177
Naphthalene-d8-ISTD	597177	CCV	616100	616100	308100	924200	121508136	597177
Phenanthrene-d10-ISTD	597177	CCV	536100	536100	268100	804200	121508136	597177
1,4-Dichlorobenzene-d4-ISTD	1911499	UNKNOWN	113200	168900	84430	253300	121513614	910925
Acenaphthene-d10-ISTD	1911499	UNKNOWN	221300	368200	184100	552400	121513614	910925
Naphthalene-d8-ISTD	1911499	UNKNOWN	423700	616100	308100	924200	121513614	910925
Phenanthrene-d10-ISTD	1911499	UNKNOWN	315500	536100	268100	804200	121513614	910925
1,4-Dichlorobenzene-d4-ISTD	1911500	UNKNOWN	130800	168900	84430	253300	121513613	910925
Acenaphthene-d10-ISTD	1911500	UNKNOWN	257900	368200	184100	552400	121513613	910925
Naphthalene-d8-ISTD	1911500	UNKNOWN	484100	616100	308100	924200	121513613	910925
Phenanthrene-d10-ISTD	1911500	UNKNOWN	343400	536100	268100	804200	121513613	910925

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IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	597177	CCV	4.220	4.220	4.160	4.280	121508136	597177
Acenaphthene-d10-ISTD	597177	CCV	6.660	6.660	6.600	6.720	121508136	597177
Naphthalene-d8-ISTD	597177	CCV	5.240	5.240	5.180	5.300	121508136	597177
Phenanthrene-d10-ISTD	597177	CCV	7.870	7.870	7.810	7.930	121508136	597177
1,4-Dichlorobenzene-d4-ISTD	1911499	UNKNOWN	4.200	4.220	4.160	4.280	121513614	910925
Acenaphthene-d10-ISTD	1911499	UNKNOWN	6.650	6.660	6.600	6.720	121513614	910925
Naphthalene-d8-ISTD	1911499	UNKNOWN	5.230	5.240	5.180	5.300	121513614	910925
Phenanthrene-d10-ISTD	1911499	UNKNOWN	7.860	7.870	7.810	7.930	121513614	910925
1,4-Dichlorobenzene-d4-ISTD	1911500	UNKNOWN	4.210	4.220	4.160	4.280	121513613	910925
Acenaphthene-d10-ISTD	1911500	UNKNOWN	6.650	6.660	6.600	6.720	121513613	910925
Naphthalene-d8-ISTD	1911500	UNKNOWN	5.230	5.240	5.180	5.300	121513613	910925
Phenanthrene-d10-ISTD	1911500	UNKNOWN	7.850	7.870	7.810	7.930	121513613	910925

SPCC

Parameter	*Sample*	*RF*	*Minimum*	*File*
TCLP 2,4-Dinitrophenol	597177	40.0	0.050	121508136
TCLP 4-Nitrophenol	597177	46.3	0.050	121508136
TCLP Hexachlorocyclopentadiene	597177	45.9	0.050	121508136
TCLP N-Nitroso-n-propylamine	597177	49.9	0.050	121508136

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	597177	CCV	51.6	100	mg/L	51.6	0.100 - 177	121508136
2-Fluorobiphenyl-SURR	597177	CCV	49.8	50.0	mg/L	99.6	13.0 - 136	121508136
2-Fluorophenol-SURR	597177	CCV	48.9	100	mg/L	48.9	7.70 - 84.2	121508136
4-Terphenyl-d14-SURR	597177	CCV	58.2	50.0	mg/L	116	11.1 - 146	121508136
Nitrobenzene-d5-SURR	597177	CCV	42.2	50.0	mg/L	84.4	15.7 - 135	121508136
Phenol-d6-SURR	597177	CCV	49.7	100	mg/L	49.7	0.100 - 70.0	121508136
2,4,6-Tribromophenol	1911499	UNKNOWN	0.908	1.00	mg/L	90.8	0.100 - 177	121513614
2-Fluorobiphenyl-SURR	1911499	UNKNOWN	0.317	0.500	mg/L	63.4	13.0 - 136	121513614
2-Fluorophenol-SURR	1911499	UNKNOWN	0.408	1.00	mg/L	40.8	7.70 - 84.2	121513614
4-Terphenyl-d14-SURR	1911499	UNKNOWN	0.395	0.500	mg/L	79.0	11.1 - 146	121513614
Nitrobenzene-d5-SURR	1911499	UNKNOWN	0.310	0.500	mg/L	62.0	15.7 - 135	121513614
Phenol-d6-SURR	1911499	UNKNOWN	0.283	1.00	mg/L	28.3	0.100 - 70.0	121513614
2,4,6-Tribromophenol	1911500	UNKNOWN	0.752	1.00	mg/L	75.2	0.100 - 177	121513613
2-Fluorobiphenyl-SURR	1911500	UNKNOWN	0.309	0.500	mg/L	61.8	13.0 - 136	121513613
2-Fluorophenol-SURR	1911500	UNKNOWN	0.422	1.00	mg/L	42.2	7.70 - 84.2	121513613
4-Terphenyl-d14-SURR	1911500	UNKNOWN	0.418	0.500	mg/L	83.6	11.1 - 146	121513613
Nitrobenzene-d5-SURR	1911500	UNKNOWN	0.312	0.500	mg/L	62.4	15.7 - 135	121513613
Phenol-d6-SURR	1911500	UNKNOWN	0.285	1.00	mg/L	28.5	0.100 - 70.0	121513613

Analytical Set 912381 EPA 8260B

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BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	912381	174	0	0.0	0 - 2.00	121510954
BFB Mass 174	912381	95.0	16320	76.1	50.0 - 100	121510954
BFB Mass 175	912381	174	1228	7.5	5.00 - 9.00	121510954
BFB Mass 176	912381	174	15783	96.7	95.0 - 101	121510954
BFB Mass 177	912381	176	1016	6.4	5.00 - 9.00	121510954
BFB Mass 50	912381	95.0	3838	17.9	15.0 - 40.0	121510954
BFB Mass 75	912381	95.0	10956	51.1	30.0 - 60.0	121510954
BFB Mass 95	912381	95.0	21449	100.0	100 - 100	121510954
BFB Mass 96	912381	95.0	1456	6.8	5.00 - 9.00	121510954

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	912381	ND	0.0011	0.002	mg/L	121510958
TCLP 1,1-Dichloroethene	912381	ND	0.0011	0.002	mg/L	121510962
TCLP 1,1-Dichloroethene	912381	ND	0.0011	0.002	mg/L	121510963
TCLP 1,2-Dichloroethane	912381	ND	0.000874	0.001	mg/L	121510958
TCLP 1,2-Dichloroethane	912381	ND	0.000874	0.001	mg/L	121510962
TCLP 1,2-Dichloroethane	912381	ND	0.000874	0.001	mg/L	121510963
TCLP 1,4 Dichlorobenzene	912381	ND	0.000958	0.001	mg/L	121510958
TCLP 1,4 Dichlorobenzene	912381	ND	0.000958	0.001	mg/L	121510962
TCLP 1,4 Dichlorobenzene	912381	ND	0.000958	0.001	mg/L	121510963
TCLP Benzene	912381	ND	0.00101	0.00101	mg/L	121510958
TCLP Benzene	912381	ND	0.00101	0.00101	mg/L	121510962
TCLP Benzene	912381	0.00791	0.00101	0.00101	mg/L	121510963
TCLP Carbon tetrachloride	912381	ND	0.000246	0.001	mg/L	121510958
TCLP Carbon tetrachloride	912381	ND	0.000246	0.001	mg/L	121510962
TCLP Carbon tetrachloride	912381	ND	0.000246	0.001	mg/L	121510963
TCLP Chlorobenzene	912381	ND	0.00106	0.002	mg/L	121510958
TCLP Chlorobenzene	912381	ND	0.00106	0.002	mg/L	121510962
TCLP Chlorobenzene	912381	ND	0.00106	0.002	mg/L	121510963
TCLP Chloroform	912381	ND	0.000971	0.001	mg/L	121510958
TCLP Chloroform	912381	ND	0.000971	0.001	mg/L	121510962
TCLP Chloroform	912381	ND	0.000971	0.001	mg/L	121510963
TCLP MEK	912381	ND	0.000742	0.001	mg/L	121510958
TCLP MEK	912381	ND	0.000742	0.001	mg/L	121510962
TCLP MEK	912381	ND	0.000742	0.001	mg/L	121510963
TCLP Tetrachloroethylene	912381	ND	0.00112	0.002	mg/L	121510958
TCLP Tetrachloroethylene	912381	ND	0.00112	0.002	mg/L	121510962
TCLP Tetrachloroethylene	912381	ND	0.00112	0.002	mg/L	121510963
TCLP Trichloroethylene	912381	ND	0.00104	0.00104	mg/L	121510958
TCLP Trichloroethylene	912381	ND	0.00104	0.00104	mg/L	121510962
TCLP Trichloroethylene	912381	ND	0.00104	0.00104	mg/L	121510963
TCLP Vinyl chloride	912381	ND	0.0012	0.002	mg/L	121510958
TCLP Vinyl chloride	912381	ND	0.0012	0.002	mg/L	121510962

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Vinyl chloride	912381	ND	0.0012	0.002	mg/L	121510963

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0184	0.020	mg/L	92.0	70.0 - 130	121510955
TCLP 1,2-Dichloroethane	0.017	0.020	mg/L	85.0	70.0 - 130	121510955
TCLP 1,4 Dichlorobenzene	0.0174	0.020	mg/L	87.0	70.0 - 130	121510955
TCLP Benzene	0.0185	0.020	mg/L	92.5	70.0 - 130	121510955
TCLP Carbon tetrachloride	0.0181	0.020	mg/L	90.5	70.0 - 130	121510955
TCLP Chlorobenzene	0.0183	0.020	mg/L	91.5	70.0 - 130	121510955
TCLP Chloroform	0.0175	0.020	mg/L	87.5	70.0 - 130	121510955
TCLP MEK	0.0161	0.020	mg/L	80.5	70.0 - 130	121510955
TCLP Tetrachloroethylene	0.0189	0.020	mg/L	94.5	70.0 - 130	121510955
TCLP Trichloroethylene	0.0175	0.020	mg/L	87.5	70.0 - 130	121510955
TCLP Vinyl chloride	0.0193	0.020	mg/L	96.5	70.0 - 130	121510955

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	912381	CCV	346500	346500	242500	450400	121510955	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	LCS	327300	346500	242500	450400	121510956	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	LCS Dup	340000	346500	242500	450400	121510957	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	320900	346500	242500	450400	121510958	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	330300	346500	242500	450400	121510962	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	311800	346500	242500	450400	121510963	912381
ChlorobenzeneD5 (ISTD)	912381	CCV	695000	695000	486500	903500	121510955	912381
ChlorobenzeneD5 (ISTD)	912381	LCS	652300	695000	486500	903500	121510956	912381
ChlorobenzeneD5 (ISTD)	912381	LCS Dup	661300	695000	486500	903500	121510957	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	660900	695000	486500	903500	121510958	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	678500	695000	486500	903500	121510962	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	641600	695000	486500	903500	121510963	912381

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	912381	LCS	11.94	11.94	11.88	12.00	121510956	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	LCS Dup	11.94	11.94	11.88	12.00	121510957	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	11.94	11.94	11.88	12.00	121510958	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	11.94	11.94	11.88	12.00	121510962	912381
1,4-DichlorobenzeneD4 (ISTD)	912381	Blank	11.94	11.94	11.88	12.00	121510963	912381
ChlorobenzeneD5 (ISTD)	912381	LCS	9.567	9.567	9.507	9.627	121510956	912381
ChlorobenzeneD5 (ISTD)	912381	LCS Dup	9.567	9.567	9.507	9.627	121510957	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	9.574	9.567	9.507	9.627	121510958	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	9.568	9.567	9.507	9.627	121510962	912381
ChlorobenzeneD5 (ISTD)	912381	Blank	9.567	9.567	9.507	9.627	121510963	912381

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	912381	0.0166	0.0157	0.020	59.8 - 134	83.0	78.5	mg/L	5.57	30.0
TCLP 1,2-Dichloroethane	912381	0.0183	0.018	0.020	70.1 - 133	91.5	90.0	mg/L	1.65	30.0
TCLP 1,4 Dichlorobenzene	912381	0.0174	0.0162	0.020	77.0 - 116	87.0	81.0	mg/L	7.14	30.0
TCLP Benzene	912381	0.0185	0.0177	0.020	69.0 - 124	92.5	88.5	mg/L	4.42	30.0
TCLP Carbon tetrachloride	912381	0.019	0.0178	0.020	60.7 - 131	95.0	89.0	mg/L	6.52	30.0
TCLP Chlorobenzene	912381	0.0181	0.0176	0.020	74.7 - 118	90.5	88.0	mg/L	2.80	30.0
TCLP Chloroform	912381	0.0186	0.018	0.020	71.4 - 127	93.0	90.0	mg/L	3.28	30.0
TCLP MEK	912381	0.0165	0.0168	0.020	49.0 - 152	82.5	84.0	mg/L	1.80	30.0
TCLP Tetrachloroethylene	912381	0.0197	0.0184	0.020	71.1 - 127	98.5	92.0	mg/L	6.82	30.0
TCLP Trichloroethylene	912381	0.0183	0.0176	0.020	71.7 - 126	91.5	88.0	mg/L	3.90	30.0
TCLP Vinyl chloride	912381	0.0103	0.00774	0.020	29.3 - 147	51.5	38.7	mg/L	28.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	912381	CCV	0.019	0.020	mg/L	95.0	71.1 - 137	121510955
1,2-DCA-d4 (SURR)	912381	LCS	0.0189	0.020	mg/L	94.5	71.1 - 137	121510956
1,2-DCA-d4 (SURR)	912381	LCS Dup	0.019	0.020	mg/L	95.0	71.1 - 137	121510957
1,2-DCA-d4 (SURR)	912381	Blank	0.0194	0.020	mg/L	97.0	71.1 - 137	121510958
1,2-DCA-d4 (SURR)	912381	Blank	0.0191	0.020	mg/L	95.5	71.1 - 137	121510962
1,2-DCA-d4 (SURR)	912381	Blank	0.0192	0.020	mg/L	96.0	71.1 - 137	121510963
Bromofluorobenzene (SURR)	912381	CCV	0.0198	0.020	mg/L	99.0	67.7 - 127	121510955
Bromofluorobenzene (SURR)	912381	LCS	0.0195	0.020	mg/L	97.5	67.7 - 127	121510956
Bromofluorobenzene (SURR)	912381	LCS Dup	0.0193	0.020	mg/L	96.5	67.7 - 127	121510957
Bromofluorobenzene (SURR)	912381	Blank	0.0198	0.020	mg/L	99.0	67.7 - 127	121510958
Bromofluorobenzene (SURR)	912381	Blank	0.0193	0.020	mg/L	96.5	67.7 - 127	121510962
Bromofluorobenzene (SURR)	912381	Blank	0.0193	0.020	mg/L	96.5	67.7 - 127	121510963
Dibromofluoromethane (SURR)	912381	CCV	0.0201	0.020	mg/L	100	79.0 - 121	121510955
Dibromofluoromethane (SURR)	912381	LCS	0.0201	0.020	mg/L	100	79.0 - 121	121510956
Dibromofluoromethane (SURR)	912381	LCS Dup	0.0201	0.020	mg/L	100	79.0 - 121	121510957
Dibromofluoromethane (SURR)	912381	Blank	0.019	0.020	mg/L	95.0	79.0 - 121	121510958
Dibromofluoromethane (SURR)	912381	Blank	0.0196	0.020	mg/L	98.0	79.0 - 121	121510962
Dibromofluoromethane (SURR)	912381	Blank	0.0199	0.020	mg/L	99.5	79.0 - 121	121510963
TolueneD8 (SURR)	912381	CCV	0.0197	0.020	mg/L	98.5	70.0 - 121	121510955
TolueneD8 (SURR)	912381	LCS	0.0196	0.020	mg/L	98.0	70.0 - 121	121510956
TolueneD8 (SURR)	912381	LCS Dup	0.0198	0.020	mg/L	99.0	70.0 - 121	121510957
TolueneD8 (SURR)	912381	Blank	0.0194	0.020	mg/L	97.0	70.0 - 121	121510958
TolueneD8 (SURR)	912381	Blank	0.0193	0.020	mg/L	96.5	70.0 - 121	121510962
TolueneD8 (SURR)	912381	Blank	0.0192	0.020	mg/L	96.0	70.0 - 121	121510963
1,2-DCA-d4 (SURR)	1911499	UNKNOWN	0.0196	0.020	mg/L	98.0	71.1 - 137	121510968
Bromofluorobenzene (SURR)	1911499	UNKNOWN	0.0193	0.020	mg/L	96.5	67.7 - 127	121510968

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Dibromofluoromethane (SURR)	1911499	UNKNOWN	0.0193	0.020	mg/L	96.5	79.0 - 121	121510968
TolueneD8 (SURR)	1911499	UNKNOWN	0.0189	0.020	mg/L	94.5	70.0 - 121	121510968
1,2-DCA-d4 (SURR)	1911500	UNKNOWN	0.0196	0.020	mg/L	98.0	71.1 - 137	121510969
Bromofluorobenzene (SURR)	1911500	UNKNOWN	0.0191	0.020	mg/L	95.5	67.7 - 127	121510969
Dibromofluoromethane (SURR)	1911500	UNKNOWN	0.0197	0.020	mg/L	98.5	79.0 - 121	121510969
TolueneD8 (SURR)	1911500	UNKNOWN	0.019	0.020	mg/L	95.0	70.0 - 121	121510969

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

Blank - Method Blank, CCV - Continuing Calibration Verification; ICV - Initial Calibration Verification; LDR - Linear Dynamic Range Standard; MS - Matrix Spike; DFTPP - GC/MS Tuning Compound; BFB - GC/MS Tuning Compound

Chain of Custody

Guadalupe Blanco River Authority- Regional Laboratory
933 E. Court Street, Seguin, Texas 78155
(830) 379-5822 fax (830) 379-7476

Customer Information

Customer Acct.# _____ RUSH Due Date: _____ by EOB

Name: GBRA Billing Address labgbrainvoices@gbra.org

Address: 933 East Court St Phone # (830)379-5822 Fax #

Seguin, TX 78155 E-mail: labreports@gbra.org ☐ E-mail Only ☐ Mail Only

Sample Collected By: _____ Printed Name _____ Residual Chlorine (Total/Free) Results _____

Signature

Thermometer No. _____ pH Paper GBRA reagent no. _____

Temp C	Date Collected	Time Collected	Sample Matrix (Drinking Water, Non-Potable Water, Groundwater)	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample I.D.	Bottle I.D.#	pH	GBRA Preservation	Rush sample (2x, 3x, 4x)
	7/29/2020	11:05	S	2 * 1L G	200730.11-04		G	Full TCLP	1911498				
	7/29/2020	9:30	S	2 * 1L G	200730.11-05		G	Full TCLP	600				
								Time is estimated					
								Due to Pick Up Window					
								Of Carrier					

Delivered By: [illegible] Date/Time: 8/6/2020 12:00 Received By: Common Carrier Lone Star Date/Time: 8/6/2020 12:00

Delivered By: Common Carrier Lone Star Date/Time: 8.7.20 0850 Received By: Staci Redd Ana-Lab Date/Time: 8.7.20 0860

**Special Notes/Ship to: Staci Redd

Ice: Y (Y or N) Number of Containers _____ Condition of Container(s): Intact Y

See Attached for Tracking # and Temp

LSO
It's all in the delivery

Airbill No. Z5886822

LSO
1-800-800-8984
www.lso.com

SHIP TO:
LOG IN
ANA-LAB CORP
2600 DUDLEY RD
KILGORE, TX 75663
9039840551

From:
JENNIFER SANCHEZ
GBRA
933 EAST COURT
SEGUIN, TX 78155
8303785822

GGGG LSO ECONOMY NEXT DAY
3:00 IN MOST AREAS
LATER IN REMOTE AREAS

PRINT DATE: 8/6/2020 REF 3:
QUICKCODE: HQ WEIGHT: 5.00LBS
REF 1: 1D00V.0000 REF 2:

8/7 0916 RT
Date Time Tech
Temp: 0.4/0.7 C
Therm#: 6444 Corr Fact: 0.0 C

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned. Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find A Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**.

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 Lone Star Overnight account number.
This label is valid for use for 3 months from the date printed. Use of expired labels may result in delayed billing and / or additional research charges. LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

GBRA
REGIONAL LABORATORY

Laboratory Results

Sample Number: 286621
Page: 1 of 2
Report Created: 2/1/2018 10:47 AM

Customer ID:	420063
Sample Description:	South TCLP
Sample Received:	1/25/2018 11:12 AM
Sample Collected:	1/25/2018 8:25 AM
Delivery Method:	Personnel, Hand Delivery
Preservative Method:	Preserved
Matrix Type:	Solis/Sludge
TCEQ Site ID:	

Sample Receipt Qualifiers:
None

Please refer to the sample number if you have any questions.

CITY OF LULING
509 E. CROCKETT DR.
LULING, TX 78648

LEGEND:

mg/L	milligrams per Liter	MDL	Method Detection Limit
ug/L	micrograms per Liter	MAL	Minimum Analytical Limit
SU	Standard Units	LOD	Limit of Detection
NTU	Nephelometric Turbidity Units	LOQ	Limit of Quantitation
C	Celsius	%RPD	%Relative Percent Difference
CFS	Cubic Feet per Second	%REC	Percent Recovery of Known Standard
POS	Positive	EPA	Environmental Protection Agency
NEG	Negative	TCEQ	Texas Commission on Environmental Quality
CFU	Colony Forming Units	CFR	Code of Federal Regulations
umhos/cm	microhms per centimeter	SM	Standard Methods for the Examination of Water and Wastewater 20th ed. 1998
MPN	Most Probable Number	N	Test Parameter Not NELAC-Accredited

Unless otherwise noted, testing was performed at the GBRA Regional Laboratory.
The following results and other information are provided for compliance with 40 CFR 131, 141 and 143 as amended.
Unless otherwise specified, these test results meet the requirements of NELAC.
These analytical results relate to the sample tested.
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GBRA Regional Laboratory * 933 E. Court St. * Seguin, Texas 78155 * Phone: 830-379-5822 * Fax: 830-379-7478

GBRA
GUADALUPE-BLANCO RIVER AUTHORITY

Laboratory Results

Sample Number: 286621
Page: 2 of 2
Report Created: 2/1/2018 10:47 AM

Parameter	Test Date	Read Date	Result	Method	MDL(LOD)	MAL(LOQ)	%RPD	%REC	Analyst
TCLP-Full 776 (N)			—						AA

Comments: Analysis performed at AnaLab. See attached report for results.

Michael Umuña

Michael Umuña, Director of Water Quality Services

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Phone 903/984-0551 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Report

Printed 02/12/2018 Page 1 of 1

Report To

GBRA/Seguin
Mike Urrutia
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Table of Contents

Account	Project
GBRL-C	815338

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815338_r10_05_ProjectQC	Ana-Lab Project P:815338 C:GBRL Project Quality Control Groups	13
815338_r99_09_CoC_1_of_1	Ana-Lab CoC GBRL 815338_1_of_1	2
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Employee Owned Integrity Caring Continual Improvement

Results

Printed: 02/12/2018

Account	*Project*
GBRL-C	815338

[redacted]

GBRA/Seguin
Mike Urrutia
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819 .

Results

[redacted]

Non-Potable Water *Collected by:* Client GBRA/Seguin
Taken: 01/25/2018 09:30:00

EPA 1664B *Prepared:* 761548 01/31/2018 09:21:00 *Analyzed* 761548 01/31/2018 09:21:00 RAK

Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
[redacted]						

1657001 286621 *Received:* 01/27/2018

Solid & Chemical Materials *Collected by:* Client GBRA/Seguin
Taken: 01/25/2018 09:30:00

EPA 6020A *Prepared:* 762077 02/02/2018 11:15:00 *Analyzed* 762197 02/02/2018 14:49:00 LPS

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
N	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	13
N	TCLP Barium	0.134	mg/L	0.050		7440-39-3	13
N	TCLP Cadmium	<0.005	mg/L	0.005		7440-43-9	13
N	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	13
N	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	13
N	TCLP Selenium	<0.050	mg/L	0.050		7782-49-2	13
N	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	13

EPA 7470 A *Prepared:* 762061 02/02/2018 10:10:00 *Analyzed* 762347 02/05/2018 13:08:00 JBP

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
N	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	10

EPA 8081A *Prepared:* 762308 02/05/2018 12:15:00 *Analyzed* 763548 02/09/2018 16:57:00 EMT

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
N	TCLP Chlordane	<0.00005	mg/L	0.00005		57-74-9	17
N	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	17
N	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	17
N	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	17
N	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	17

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Results

Printed: 02/12/2018

1657001 286621 *Received:* 01/27/2018

Solid & Chemical Materials *Collected by:* Client GBRA/Seguin

Taken: 01/25/2018 09:30:00

EPA 8081A *Prepared:* 762308 02/05/2018 12:15:00 *Analyzed* 763548 02/09/2018 16:57:00 *EMT*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	17
N	TCLP Toxaphene	<0.00005	mg/L	0.00005		8001-35-2	17

EPA 8151 *Prepared:* 762576 02/06/2018 14:00:00 *Analyzed* 763207 02/08/2018 18:07:00 *EMT*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 2,4 D	<0.500	mg/L	0.500	X	94-75-7	18
N	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300	X	93-72-1	18

EPA 8260B *Prepared:* 761927 02/01/2018 14:40:00 *Analyzed* 762229 02/02/2018 16:42:00 *JRH*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 1,1-Dichloroethane	<0.010	mg/L	0.010		75-35-4	09
N	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	09
N	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	09
N	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	09
N	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	09
N	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	09
N	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	09
N	TCLP MEK	<0.050	mg/L	0.050		78-93-3	09
N	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	09
N	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	09
N	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	09

EPA 8270C *Prepared:* 762243 02/05/2018 06:45:00 *Analyzed* 762771 02/06/2018 15:30:00 *DWL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	16
N	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	16
N	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	16
N	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100			16
N	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080			16
N	TCLP bis(2-Chloroethyl)ether	<0.010	mg/L	0.010		111-44-4	16
N	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	16
N	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	16
N	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	16
N	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	16
N	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	16
N	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	16

EPA 8270C *Prepared:* 762243 02/05/2018 06:45:00 *Calculated* 762771 02/07/2018 14:11:38 *CAL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080		108-39-4,ect.	16

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Results

Printed: 02/12/2018

Solid & Chemical Materials

Taken: 01/25/2018 09:30:00

EPA 6020A Prepared: 762077 02/02/2018 11:15:00 Analyzed 762197 02/02/2018 14:59:00 LHS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	10
N	TCLP Barium	0.171	mg/L	0.050		7440-39-3	10
N	TCLP Cadmium	<0.005	mg/L	0.005		7440-43-9	10
N	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	10
N	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	10
N	TCLP Selenium	<0.050	mg/L	0.050		7782-49-2	10
N	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	10

EPA 7470 A Prepared: 762061 02/02/2018 10:10 Analyzed 762347 02/05/2018 13:13:00 JBP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	09

EPA 8081A Prepared: 762308 02/05/2018 12:15:00 Analyzed 763348 02/09/2018 17:15:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Chlordane	<0.00005	mg/L	0.00005		57-74-9	12
N	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	12
N	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	12
N	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	12
N	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	12
N	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	12
N	TCLP Toxaphene	<0.00005	mg/L	0.00005		8001-35-2	12

EPA 8151 Prepared: 762376 02/06/2018 14:00:00 Analyzed 763207 02/08/2018 18:27:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 2,4 D	<0.500	mg/L	0.500	X	94-75-7	14
N	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300	X	93-72-1	14

EPA 8260B Prepared: 761927 02/01/2018 14:40:00 Analyzed 762229 02/02/2018 17:04:00 JRH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	08
N	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	08
N	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	08
N	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	08
N	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	08
N	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	08
N	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	08
N	TCLP MEK	<0.050	mg/L	0.050		78-93-3	08
N	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	08

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286621

Solid & Chemical Materials *Collected by:* Client GBRA/Seguin

Taken: 01/25/2018 09:30:00

EPA 8260B	*Prepared:* 761927	02/01/2018	14:40:00	*Analyzed*	762229	02/02/2018	17:04:00	JRH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	08

EPA 8270C	*Prepared:* 762243	02/05/2018	06:45:00	*Analyzed*	762771	02/06/2018	15:59:00	DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
N	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	11
N	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	11
N	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	11
N	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100			11
N	TCLP 3&4-Methylphenol (m&p-Cresc	<0.080	mg/L	0.080			11
N	TCLP bis(2-Chloroethyl)ether	<0.010	mg/L	0.010		111-44-4	11
N	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	11
N	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	11
N	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	11
N	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	11
N	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	11
N	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	11

EPA 827	*Prepared:* 762243	02/05/2018	06:45:00	*Calculated*	762771	02/07/2018	14:11:38	CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle

Sample Preparation

286620 01/27/2018

	Prepared: 761109	01/27/2018	00:00:00	*Analyzed*	761109	01/27/2018	00:00:00	KAT

Cooler Temp	8.1	degrees	01
Cooler Temp	8.1	degrees	02

1657001 286621 *Received:* 01/27/2018

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Employee Owned Integrity Caring Continual Improvement

Results

Printed: 02/12/2018

1657001 286621 *Received:* 01/27/2018

	Prepared:	761109	01/27/2018	00:00:00	*Analyzed*	761109	01/27/2018	00:00:00	KAT
Cooler Temperature	**0.1**		**degrees**					**01**	
Cooler Temperature	**0.1**		**degrees**					**02**	
Cooler Temperature	**0.1**		**degrees**					**03**	
Cooler Temperature	**0.1**		**degrees**					**04**	
EPA 3510C	*Prepared:*	761926	02/01/2018	14:40:00	*Analyzed*	762243	02/05/2018	06:45:00	MCC
TCLP Liquid-Liquid Extract	**1/100**		**ml**					**07**	
EPA 3510C	*Prepared:*	761926	02/01/2018	14:40:00	*Analyzed*	762308	02/05/2018	12:15:00	MCC
TCLP Liq-Liq Extr. W/Flex Exch.	**10/200**		**ml**					**07**	
EPA 1311	*Prepared:*	761926	02/01/2018	14:40:00	*Analyzed*	761926	02/01/2018	14:40:00	TDD
N **TCLP Extraction Non-Volatile**	**SOLID EXT 1**		**ml**					**01**	
EPA 1311ZHE	*Prepared:*	761927	02/01/2018	14:40:00	*Analyzed*	761927	02/01/2018	14:40:00	TDD
N **TCLP Extraction ZHE Volatiles**	**15.8% SOLID**		**ml**					**01**	
EPA 3005A	*Prepared:*	761926	02/01/2018	14:40:00	*Analyzed*	762077	02/02/2018	11:15:00	TLS
N **Metals Digestion TCLP Extract**	**50/10**		**ml**					**06**	
EPA 7470A	*Prepared:*	761926	02/01/2018	14:40:00	*Analyzed*	762061	02/02/2018	10:10:00	ALH
N **Metals Digestion TCLP 7470**	**50/2.5**		**ml**					**06**	
EPA 8081A	*Prepared:*	762308	02/05/2018	12:15:00	*Analyzed*	763548	02/09/2018	16:57:00	EMT
N **GC TCLP Pesticide**	**Entered**							**17**	
EPA 8151	*Prepared:*	762376	02/06/2018	14:00:00	*Analyzed*	763207	02/08/2018	18:07:00	EMT
N **GC TCLP Herbicide**	**Entered**							**18**	

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Results

Printed: 02/12/2018

1657001 286621 *Received:* 01/27/2018

EPA 8151A (Prep)	*Prepared:*	*761926*	*02/01/2018*	*14:40:00*	*Analyzed*	*762576*	*02/06/2018*	*14:00:00*	*CRG*
N Esterification of TCLP Extract	10/1.0	ml						07	
EPA 8260B	*Prepared:*	*761927*	*02/01/2018*	*14:40:00*	*Analyzed*	*762229*	*02/02/2018*	*16:42:00*	*JRH*
N MS TCLP Volatile Analysis	Entered							09	
EPA 8270C	*Prepared:*	*762243*	*02/05/2018*	*06:45:00*	*Analyzed*	*762771*	*02/06/2018*	*15:30:00*	*DWT*
N MS TCLP Semivolatile Analysis	Entered							16	
	Prepared:	*761109*	*01/27/2018*	*00:00:00*	*Analyzed*		*01/27/2018*	*00:00:00*	*KAT*
Cooler Temperature	0.1	degrees						01	
Cooler Temperature	0.1	degrees						02	
Cooler Temperature	0.1	degrees						03	
Cooler Temperature	0.1	degrees						04	
EPA 3510C	*Prepared:*	*761926*	*02/01/2018*	*14:40:00*	*Analyzed*	*762243*	*02/05/2018*	*06:45:00*	*MCC*
TCLP Liquid-Liquid Extract	1/100	ml						07	
EPA 3510C	*Prepared:*	*761926*	*02/01/2018*	*14:40:00*	*Analyzed*	*762308*	*02/05/2018*	*12:15:00*	*MCC*
TCLP Liq-Liq Extr. W[illegible]	10/200	ml						07	
EPA 1[illegible]	*Prepared:*	*761926*	*02/01/2018*	*14:40:00*	*Analyzed*	*761926*	*02/01/2018*	*14:40:00*	*TDD*
[illegible]								01	

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Results

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EPA 1311ZHE	*Prepared:* 761927	02/01/2018	14:40:00	*Analyzed* 761927	02/01/2018	14:40:00	TIH		
N TCLP Extraction ZHE Volatiles	49.5% SOLID	ml					01		
EPA 3005A	*Prepared:* 761926	02/01/2018	14:40:00	*Analyzed* 762077	02/02/2018	11:15:00	TES		
N Metals Digestion TCLP Extract	50/10	ml					06		
EPA 7470A	*Prepared:* 761926	02/01/2018	14:40:00	*Analyzed* 762061	02/02/2018	10:10:00	ALB		
N Metals Digestion TCLP 7470	50/2.5	ml					06		
EPA 8081A	*Prepared:* 762[illegible]	02/05/2018	12:15:00	*Analyzed* 763548	02/09/2018	17:15:00	EMT		
N GC TCLP Pesticide	Entered						12		
EPA 8151	*Prepared:* 762576	02/06/2018	14:00:00	*Analyzed* 763207	02/08/2018	18:27:00	EMT		
N GC TCLP Herbicide	Entered						14		
EPA 8151A (Prep)	*Prepared:* 761926	02/01/2018	14:40:00	*Analyzed* 762576	02/06/2018	14:00:00	CRG		
N Esterification of TCLP Extract	10/1.0	ml					07		
EPA 8260B	*Prepared:* 761927	02/01/2018	14:40:00	*Analyzed* 762229	02/02/2018	17:04:00	JRH		
N MS TCLP Volatile Analysis	Entered						08		
EPA 82[illegible]	*Prepared:* 762243	02/05/2018	06:45:00	*Analyzed* 762771	02/06/2018	15:59:00	DWL		

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Results

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Qualifiers:

J - Analyte detected below quantitation limit X - Standard reads higher than desired.

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under 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 Ana-Lab Corp. 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.

Paul Zhang, Ph.D., Quality Director

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WW SLUDGE

Account	Project
GBRL-C	815338

Reported to:

GBRA/Seguin
Mike Urrutia
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Analytical Set 761548 — EPA 1664B

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM) by SPE	761548	0.700	0.557	4.00	mg/L	118373140

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Oil and Grease (HEM) by SPE	761548	35.3	36.6	40.0	78.0 - 114	88.2	91.5	mg/L	3.62	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM) by SPE	1657254	37.2	0	ND	40.0	70.0 - 130	93.0		mg/L		20.0

Analytical Set 762197 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	762077	ND	0.010	0.010	mg/L	118385442
TCLP Barium	762077	ND	0.010	0.010	mg/L	118385442
TCLP Cadmium	762077	ND	0.001	0.001	mg/L	118385442
TCLP Chromium	762077	ND	0.010	0.010	mg/L	118385442
TCLP Lead	762077	ND	0.010	0.010	mg/L	118385442
TCLP Selenium	762077	ND	0.010	0.010	mg/L	118385442
TCLP Silver	762077	ND	0.010	0.010	mg/L	118385442

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0486	0.05	mg/L	97.2	90.0 - 110	118385441
	0.0483	0.05	mg/L	96.6	90.0 - 110	118385450
TCLP Barium	0.0486	0.05	mg/L	97.2	90.0 - 110	118385441
	0.0486	0.05	mg/L	97.2	90.0 - 110	118385450
TCLP Cadmium	0.0499	0.05	mg/L	99.8	90.0 - 110	118385441
	0.0504	0.05	mg/L	101	90.0 - 110	118385450
TCLP Chromium	0.0505	0.05	mg/L	101	90.0 - 110	118385441
	0.0514	0.05	mg/L	103	90.0 - 110	118385450
TCLP Lead	0.0519	0.05	mg/L	104	90.0 - 110	118385441
	0.0517	0.05	mg/L	103	90.0 - 110	118385450
TCLP Selenium	0.0536	0.05	mg/L	107	90.0 - 110	118385441
	0.0495	0.05	mg/L	99.0	90.0 - 110	118385450
TCLP Silver	0.0505	0.05	mg/L	101	90.0 - 110	118385441
	0.0508	0.05	mg/L	102	90.0 - 110	118385450

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File

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ICV

Parameter	Reading	Known	Units	Recover%	Limit%	File
TCLP Arsenic	0.0523	0.05	mg/L	105	90.0 - 110	118385437
TCLP Barium	0.0537	0.05	mg/L	107	90.0 - 110	118385437
TCLP Cadmium	0.0527	0.05	mg/L	105	90.0 - 110	118385437
TCLP Chromium	0.0535	0.05	mg/L	107	90.0 - 110	118385437
TCLP Lead	0.0524	0.05	mg/L	105	90.0 - 110	118385437
TCLP Selenium	0.0498	0.05	mg/L	99.6	90.0 - 110	118385437
TCLP Silver	0.0535	0.05	mg/L	107	90.0 - 110	118385437

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limit%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	762077	0.495	0.492	0.500	86.0 - 113	99.0	98.4	mg/L	0.608	14.0
TCLP Barium	762077	0.476	0.477	0.500	85.9 - 108	95.2	95.4	mg/L	0.210	14.0
TCLP Cadmium	762077	0.255	0.254	0.250	88.8 - 109	102	102	mg/L	0.393	14.0
TCLP Chromium	762077	0.502	0.492	0.500	89.4 - 110	100	98.4	mg/L	2.01	14.0
TCLP Lead	762077	0.500	0.496	0.500	86.3 - 112	100	99.2	mg/L	0.803	14.0
TCLP Selenium	762077	0.515	0.520	0.500	85.9 - 114	103	104	mg/L	0.966	14.0
TCLP Silver	762077	0.0979	0.0969	0.100	83.9 - 108	97.9	96.9	mg/L	1.03	14.0

LDR

Parameter	Reading	Known	Units	Recover%	Limit%	File
TCLP Arsenic	10.0	10	mg/L	100	90.0 - 110	118385440
TCLP Barium	9.91	10	mg/L	99.1	90.0 - 110	118385440
TCLP Cadmium	10.3	10	mg/L	103	90.0 - 110	118385440
TCLP Chromium	10.1	10	mg/L	101	90.0 - 110	118385440
TCLP Lead	10.1	10	mg/L	101	90.0 - 110	118385440
TCLP Selenium	5.46	5	mg/L	109	90.0 - 110	118385439

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	1657001	2.47	2.49	ND	2.50	82.5 - 111	98.8	99.6	mg/L	0.806	20.0
TCLP Barium	1657001	2.51	2.50	0.134	2.50	83.2 - 106	95.0	94.6	mg/L	0.422	20.0
TCLP Cadmium	1657001	1.26	1.27	ND	1.25	86.8 - 107	101	102	mg/L	0.791	20.0
TCLP Chromium	1657001	2.52	2.50	0.0113	2.50	88.7 - 108	100	99.5	mg/L	0.800	20.0
TCLP Lead	1657001	2.50	2.51	ND	2.50	85.9 - 109	100	100	mg/L	0.399	20.0
TCLP Selenium	1657001	2.57	2.62	0.0143	2.50	83.6 - 110	102	104	mg/L	1.94	20.0
TCLP Silver	1657001	0.483	0.486	ND	0.500	84.2 - 103	96.6	97.2	mg/L	0.619	20.0

Analytical Set 762347 EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	762061	ND	0.000075	0.0001	mg/L	118388622

CCV

Parameter	Reading	Known	Units	Recover%	Limit%	File
TCLP Mercury	0.00489	0.005	mg/L	97.8	90.0 - 110	118388621
	0.00488	0.005	mg/L	97.6	90.0 - 110	118388629

ICL

Parameter	Reading	Known	Units	Recover%	Limit%	File
TCLP Mercury	0.0201	0.02	mg/L	100	90.0 - 110	118388620

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ICV

Parameter		Reading	Known	Units	Recover%	Limits%		File
TCLP Mercury		0.00481	0.005	mg/L	96.2	90.0 - 110		118386619

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	762061	0.00497	0.0049		0.005	87.1 - 116	99.4	98.0	mg/L	1.42	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	1657001	0.101	0.0968	0.00022	0.100	86.7 - 117	101	96.6	mg/L	4.26	15.0

Analytical Set 762229 EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	762229	174	271	0.6	0 - 2.00	118386864
BFB Mass 174	762229	95.0	42821	89.2	50.0 - 100	118386864
BFB Mass 175	762229	174	3377	7.9	5.00 - 9.00	118386864
BFB Mass 176	762229	174	41099	96.0	95.0 - 101	118386864
BFB Mass 177	762229	176	2691	6.5	5.00 - 9.00	118386864
BFB Mass 50	762229	95.0	11302	23.5	15.0 - 40.0	118386864
BFB Mass 75	762229	95.0	25083	52.2	30.0 - 60.0	118386864
BFB Mass 95	762229	95.0	48008	100.0	100 - 100	118386864
BFB Mass 96	762229	95.0	3392	7.1	5.00 - 9.00	118386864

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	762229	ND	0.000404	0.001	mg/L	118386868
	762229	ND	0.000404	0.001	mg/L	118386870
TCLP 1,2-Dichloroethane	762229	ND	0.000456	0.001	mg/L	118386868
	762229	ND	0.000456	0.001	mg/L	118386870
TCLP 1,4 Dichlorobenzene	762229	ND	0.000294	0.001	mg/L	118386868
	762229	ND	0.000294	0.001	mg/L	118386870
TCLP Benzene	762229	ND	0.000187	0.001	mg/L	118386868
	762229	ND	0.000187	0.001	mg/L	118386870
TCLP Carbon tetrachloride	762229	ND	0.000359	0.001	mg/L	118386868
	762229	ND	0.000359	0.001	mg/L	118386870
TCLP Chlorobenzene	762229	ND	0.000226	0.001	mg/L	118386868
	762229	ND	0.000226	0.001	mg/L	118386870
TCLP Chloroform	762229	ND	0.000211	0.001	mg/L	118386868
	762229	ND	0.000211	0.001	mg/L	118386870
TCLP MEK	762229	ND	0.000382	0.005	mg/L	118386868
	762229	0.00041	0.000382	0.005	mg/L	118386870
TCLP Tetrachloroethylene	762229	ND	0.000391	0.001	mg/L	118386868
	762229	ND	0.000391	0.001	mg/L	118386870
TCLP Trichloroethylene	762229	ND	0.000562	0.001	mg/L	118386868
	762229	ND	0.000562	0.001	mg/L	118386870
TCLP Vinyl chloride	762229	ND	0.000228	0.001	mg/L	118386868
	762229	ND	0.000228	0.001	mg/L	118386870

CCV

Parameter		Reading	Known	Units	Recover%	Limits%		File
TCLP 1,1-Dichloroethene		0.0209	0.020	mg/L	104	70.0 - 130		118386865

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CCV

Parameter	Reading	Known	Units	Recovr%	Limits%	File
TCLP 1,2-Dichloroethane	0.023	0.020	mg/L	115	70.0 - 130	118386865
TCLP 1,4 Dichlorobenzene	0.0207	0.020	mg/L	104	70.0 - 130	118386865
TCLP Benzene	0.0218	0.020	mg/L	109	70.0 - 130	118386865
TCLP Carbon tetrachloride	0.0206	0.020	mg/L	103	70.0 - 130	118386865
TCLP Chlorobenzene	0.0198	0.020	mg/L	99.0	70.0 - 130	118386865
TCLP Chloroform	0.0216	0.020	mg/L	108	70.0 - 130	118386865
TCLP MEK	0.0258	0.020	mg/L	129	70.0 - 130	118386865
TCLP Tetrachloroethylene	0.0198	0.020	mg/L	99.0	70.0 - 130	118386865
TCLP Trichloroethylene	0.0213	0.020	mg/L	106	70.0 - 130	118386865
TCLP Vinyl chloride	0.0174	0.020	mg/L	87.0	70.0 - 130	118386865

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	762229	CCV	205400	205400	143800	267100	118386865	762229
	762229	LCS	206400	205400	143800	267100	118386866	762229
	762229	LCS Dup	202200	205400	143800	267100	118386867	762229
	762229	Blank	175300	205400	143800	267100	118386868	762229
	762229	Blank	188300	205400	143800	267100	118386870	762229
ChlorobenzeneD5 (ISTD)	762229	CCV	299100	299100	209300	388800	118386865	762229
	762229	LCS	300900	299100	209300	388800	118386866	762229
	762229	LCS Dup	302400	299100	209300	388800	118386867	762229
	762229	Blank	276600	299100	209300	388800	118386868	762229
	762229	Blank	292200	299100	209300	388800	118386870	762229
1,4-DichlorobenzeneD4 (ISTD)	1657001	MS	192200	205400	143800	267100	118386874	761927
	1657001	MSD	198500	205400	143800	267100	118386875	761927
ChlorobenzeneD5 (ISTD)	1657001	MS	278400	299100	209300	388800	118386874	761927
	1657001	MSD	292800	299100	209300	388800	118386875	761927

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	762229	LCS	11.98	11.98	11.92	12.04	118386866	762229
	762229	LCS Dup	11.98	11.98	11.92	12.04	118386867	762229
	762229	Blank	11.98	11.98	11.92	12.04	118386868	762229
	762229	Blank	11.99	11.98	11.92	12.04	118386870	762229
ChlorobenzeneD5 (ISTD)	762229	LCS	9.604	9.604	9.544	9.664	118386866	762229
	762229	LCS Dup	9.604	9.604	9.544	9.664	118386867	762229
	762229	Blank	9.604	9.604	9.544	9.664	118386868	762229
	762229	Blank	9.604	9.604	9.544	9.664	118386870	762229
1,4-DichlorobenzeneD4 (ISTD)	1657001	MS	11.99	11.98	11.92	12.04	118386874	761927
	1657001	MSD	11.98	11.98	11.92	12.04	118386875	761927
ChlorobenzeneD5 (ISTD)	1657001	MS	9.604	9.604	9.544	9.664	118386874	761927
	1657001	MSD	9.604	9.604	9.544	9.664	118386875	761927

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	762229	0.0206	0.0194	0.020	70.0 - 131	103	97.0	mg/L	6.00	30.0
TCLP 1,2-Dichloroethane	762229	0.0226	0.0224	0.020	73.5 - 132	113	112	mg/L	0.889	30.0
TCLP 1,4 Dichlorobenzene	762229	0.0204	0.020	0.020	82.5 - 117	102	100	mg/L	1.98	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Benzene	762229	0.0215	0.0206	0.020	81.0 - 121	108	103	mg/L	4.74	30.0
TCLP Carbon tetrachloride	762229	0.0213	0.0198	0.020	68.0 - 131	106	99.0	mg/L	6.83	30.0
TCLP Chlorobenzene	762229	0.0198	0.0192	0.020	80.5 - 120	99.0	96.0	mg/L	3.08	30.0
TCLP Chloroform	762229	0.0214	0.0203	0.020	74.3 - 126	107	102	mg/L	4.78	30.0
TCLP MEK	762229	0.0225	0.0214	0.020	44.8 - 144	112	107	mg/L	4.57	30.0
TCLP Tetrachloroethylene	762229	0.0201	0.0194	0.020	75.5 - 130	100	97.0	mg/L	3.05	30.0
TCLP Trichloroethylene	762229	0.0213	0.0211	0.020	76.9 - 121	106	106	mg/L	0	30.0
TCLP Vinyl chloride	762229	0.0194	0.0184	0.020	41.4 - 123	97.0	92.0	mg/L	5.29	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1657001	0.207	0.190	ND	0.200	64.2 - 138	104	95.0	mg/L	8.56	30.0
TCLP 1,2-Dichloroethane	1657001	0.224	0.214	ND	0.200	67.0 - 143	112	107	mg/L	4.57	30.0
TCLP 1,4 Dichlorobenzene	1657001	0.204	0.193	ND	0.200	77.8 - 117	102	96.5	mg/L	5.54	30.0
TCLP Benzene	1657001	0.212	0.198	ND	0.200	72.7 - 130	106	99.0	mg/L	6.83	30.0
TCLP Carbon tetrachloride	1657001	0.205	0.189	ND	0.200	60.0 - 143	102	94.5	mg/L	8.12	30.0
TCLP Chlorobenzene	1657001	0.195	0.187	ND	0.200	77.2 - 123	97.5	93.5	mg/L	4.19	30.0
TCLP Chloroform	1657001	0.207	0.192	ND	0.200	69.1 - 133	104	96.0	mg/L	7.52	30.0
TCLP MEK	1657001	0.224	0.226	0.0075	0.200	17.4 - 162	108	109	mg/L	0.920	30.0
TCLP Tetrachloroethylene	1657001	0.199	0.192	ND	0.200	75.5 - 127	99.5	96.0	mg/L	3.58	30.0
TCLP Trichloroethylene	1657001	0.210	0.199	ND	0.200	69.0 - 124	105	99.5	mg/L	5.38	30.0
TCLP Vinyl chloride	1657001	0.199	0.184	ND	0.200	25.5 - 140	99.5	92.0	mg/L	7.83	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	762229	CCV	0.0223	0.020	mg/L	112	75.0 - 126	118386865
	762229	LCS	0.0225	0.020	mg/L	112	75.0 - 126	118386866
	762229	LCS Dup	0.0213	0.020	mg/L	106	75.0 - 126	118386867
	762229	Blank	0.0228	0.020	mg/L	114	75.0 - 126	118386868
	762229	Blank	0.0217	0.020	mg/L	108	75.0 - 126	118386870
Bromofluorobenzene (SURR)	762229	CCV	0.0202	0.020	mg/L	101	75.0 - 123	118386865
	762229	LCS	0.0206	0.020	mg/L	103	75.0 - 123	118386866
	762229	LCS Dup	0.021	0.020	mg/L	105	75.0 - 123	118386867
	762229	Blank	0.0202	0.020	mg/L	101	75.0 - 123	118386868
	762229	Blank	0.0209	0.020	mg/L	104	75.0 - 123	118386870
Dibromofluoromethane (SURR)	762229	CCV	0.0205	0.020	mg/L	102	75.0 - 121	118386865
	762229	LCS	0.0208	0.020	mg/L	104	75.0 - 121	118386866
	762229	LCS Dup	0.0207	0.020	mg/L	104	75.0 - 121	118386867
	762229	Blank	0.0201	0.020	mg/L	100	75.0 - 121	118386868
	762229	Blank	0.0203	0.020	mg/L	102	75.0 - 121	118386870
TolueneD8 (SURR)	762229	CCV	0.0204	0.020	mg/L	102	75.0 - 110	118386865
	762229	LCS	0.0203	0.020	mg/L	102	75.0 - 110	118386866
	762229	LCS Dup	0.0198	0.020	mg/L	99.0	75.0 - 110	118386867
	762229	Blank	0.0198	0.020	mg/L	99.0	75.0 - 110	118386868
	762229	Blank	0.0198	0.020	mg/L	99.0	75.0 - 110	118386870
1,2-DCA-d4 (SURR)	1657001	UNKNOWN	0.0214	0.020	mg/L	107	75.0 - 126	118386871
	1657001	MS	0.0213	0.020	mg/L	106	75.0 - 126	118386874
	1657001	MSD	0.021	0.020	mg/L	105	75.0 - 126	118386875
Bromofluorobenzene (SURR)	1657001	UNKNOWN	0.0212	0.020	mg/L	106	75.0 - 123	118386871

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Bromofluorobenzene (SURR)	1657001	MS	0.0202	0.020	mg/L	101	75.0 - 123	118386874
	1657001	MSD	0.0205	0.020	mg/L	102	75.0 - 123	118386875
Dibromofluoromethane (SURR)	1657001	UNKNOWN	0.0203	0.020	mg/L	102	75.0 - 121	118386871
	1657001	MS	0.0209	0.020	mg/L	104	75.0 - 121	118386874
	1657001	MSD	0.0206	0.020	mg/L	103	75.0 - 121	118386875
ToluneD8 (SURR)	1657001	UNKNOWN	0.0199	0.020	mg/L	99.5	75.0 - 110	118386871
	1657001	MS	0.0204	0.020	mg/L	102	75.0 - 110	118386874
	1657001	MSD	0.0201	0.020	mg/L	100	75.0 - 110	118386875
1,2-DCA-d4 (SURR)	1657002	UNKNOWN	0.0215	0.020	mg/L	108	75.0 - 126	118386872
Bromofluorobenzene (SURR)	1657002	UNKNOWN	0.0207	0.020	mg/L	104	75.0 - 123	118386872
Dibromofluoromethane (SURR)	1657002	UNKNOWN	0.0201	0.020	mg/L	100	75.0 - 121	118386872
ToluneD8 (SURR)	1657002	UNKNOWN	0.0194	0.020	mg/L	97.0	75.0 - 110	118386872

Analytical Set 762771

EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	761926	ND	0.000961	0.005	mg/L	118396092
TCLP 2,4,6-Trichlorophenol	761926	ND	0.00124	0.002	mg/L	118396092
TCLP 2,4-Dinitrotoluene	761926	ND	0.00153	0.002	mg/L	118396092
TCLP 2-Methylphenol (o-Cresol)	761926	ND	0.00848	0.010	mg/L	118396092
TCLP 3&4-Methylphenol (m&p-Creso	761926	ND	0.00778	0.008	mg/L	118396092
TCLP bis(2-Chloroethyl)ether	761926	ND	0.000348	0.001	mg/L	118396092
TCLP Hexachlorobenzene	761926	ND	0.000871	0.001	mg/L	118396092
TCLP Hexachlorobutadiene	761926	ND	0.00103	0.00103	mg/L	118396092
TCLP Hexachloroethane	761926	ND	0.00105	0.002	mg/L	118396092
TCLP Nitrobenzene	761926	ND	0.000271	0.001	mg/L	118396092
TCLP Pentachlorophenol	761926	ND	0.00096	0.005	mg/L	118396092
TCLP Pyridine (Reg. Limit 5)	761926	ND	0.00135	0.00135	mg/L	118396092
TCLP 2,4,5-Trichlorophenol	762243	ND	0.000961	0.005	mg/L	118396089
TCLP 2,4,6-Trichlorophenol	762243	ND	0.00124	0.002	mg/L	118396089
TCLP 2,4-Dinitrotoluene	762243	ND	0.00153	0.002	mg/L	118396089
TCLP 2-Methylphenol (o-Cresol)	762243	ND	0.00848	0.010	mg/L	118396089
TCLP 3&4-Methylphenol (m&p-Creso	762243	ND	0.00778	0.008	mg/L	118396089
TCLP bis(2-Chloroethyl)ether	762243	ND	0.000348	0.001	mg/L	118396089
TCLP Hexachlorobenzene	762243	ND	0.000871	0.001	mg/L	118396089
TCLP Hexachlorobutadiene	762243	ND	0.00103	0.00103	mg/L	118396089
TCLP Hexachloroethane	762243	ND	0.00105	0.002	mg/L	118396089
TCLP Nitrobenzene	762243	ND	0.000271	0.001	mg/L	118396089
TCLP Pentachlorophenol	762243	ND	0.00096	0.005	mg/L	118396089
TCLP Pyridine (Reg. Limit 5)	762243	ND	0.00135	0.00135	mg/L	118396089

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	48.0	50.0	mg/L	96.0	70.0 - 130	118396088
TCLP 2,4,6-Trichlorophenol	47.0	50.0	mg/L	94.0	70.0 - 130	118396088
TCLP 2,4-Dinitrotoluene	49.0	50.0	mg/L	98.0	70.0 - 130	118396088
TCLP 2-Methylphenol (o-Cresol)	48.2	50.0	mg/L	96.4	70.0 - 130	118396088
TCLP 3&4-Methylphenol (m&p-Cresol	56.9	50.0	mg/L	114	70.0 - 130	118396088
TCLP bis(2-Chloroethyl)ether	41.4	50.0	mg/L	82.8	70.0 - 130	118396088
TCLP Hexachlorobenzene	55.2	50.0	mg/L	110	70.0 - 130	118396088
TCLP Hexachlorobutadiene	46.5	50.0	mg/L	93.0	70.0 - 130	118396088
TCLP Hexachloroethane	51.8	50.0	mg/L	104	70.0 - 130	118396088
TCLP Nitrobenzene	47.4	50.0	mg/L	94.8	70.0 - 130	118396088
TCLP Pentachlorophenol	57.3	50.0	mg/L	115	70.0 - 130	118396088
TCLP Pyridine (Reg. Limit 5)	46.8	50.0	mg/L	93.6	70.0 - 130	118396088

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	584234	198	104890	51.0	40.0 - 60.0	118396087
DFTPP Mass 197	584234	198	0	0.0	0 - 1.00	118396087
DFTPP Mass 198	584234	198	205829	100.0	100 - 100	118396087
DFTPP Mass 199	584234	198	13835	6.7	5.00 - 9.00	118396087
DFTPP Mass 275	584234	198	43929	21.3	10.0 - 30.0	118396087
DFTPP Mass 365	584234	198	4975	2.4	1.00 - 100	118396087
DFTPP Mass 441	584234	443	20294	85.0	0 - 100	118396087
DFTPP Mass 442	584234	198	128221	62.3	40.0 - 100	118396087
DFTPP Mass 443	584234	442	23879	18.6	17.0 - 23.0	118396087
DFTPP Mass 51	584234	198	93204	45.3	30.0 - 60.0	118396087
DFTPP Mass 68	584234	69.0	0	0.0	0 - 2.00	118396087
DFTPP Mass 69	584234	198	94417	45.9	0 - 100	118396087
DFTPP Mass 70	584234	69.0	716	0.8	0 - 2.00	118396087

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	584089	CCV	558100	558100	279000	837100	118396088	584089
Acenaphthene-d10-ISTD	584089	CCV	1315000	1315000	657500	1972000	118396088	584089
Naphthalene-d8-ISTD	584089	CCV	2250000	2250000	1125000	3375000	118396088	584089
Phenanthrene-d10-ISTD	584089	CCV	1918000	1918000	959100	2877000	118396088	584089
1,4-Dichlorobenzene-d4-ISTD	761926	Blank	604900	558100	279000	837100	118396092	761926
Acenaphthene-d10-ISTD	761926	Blank	1299000	1315000	657500	1972000	118396092	761926
Naphthalene-d8-ISTD	761926	Blank	2528000	2250000	1125000	3375000	118396092	761926
Phenanthrene-d10-ISTD	761926	Blank	2162000	1918000	959100	2877000	118396092	761926
1,4-Dichlorobenzene-d4-ISTD	762243	Blank	569400	558100	279000	837100	118396089	762243
	762243	LCS	588200	558100	279000	837100	118396090	762243
	762243	LCS Dup	589300	558100	279000	837100	118396091	762243
Acenaphthene-d10-ISTD	762243	Blank	1157000	1315000	657500	1972000	118396089	762243
	762243	LCS	1242000	1315000	657500	1972000	118396090	762243
	762243	LCS Dup	1238000	1315000	657500	1972000	118396091	762243
Naphthalene-d8-ISTD	762243	Blank	2162000	2250000	1125000	3375000	118396089	762243

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Naphthalene-d8-ISTD	762243	LCS	2291000	2250000	1125000	3375000	118396090	762243
	762243	LCS Dup	2300000	2250000	1125000	3375000	118396091	762243
Phenanthrene-d10-ISTD	762243	Blank	1744000	1918000	959100	2877000	118396089	762243
	762243	LCS	1997000	1918000	959100	2877000	118396090	762243
	762243	LCS Dup	2000000	1918000	959100	2877000	118396091	762243
1,4-Dichlorobenzene-d4-ISTD	1657001	UNKNOWN	625700	558100	279000	837100	118396093	762243
Acenaphthene-d10-ISTD	1657001	UNKNOWN	1340000	1315000	657500	1972000	118396093	762243
Naphthalene-d8-ISTD	1657001	UNKNOWN	2480000	2250000	1125000	3375000	118396093	762243
Phenanthrene-d10-ISTD	1657001	UNKNOWN	2113000	1918000	959100	2877000	118396093	762243
1,4-Dichlorobenzene-d4-ISTD	1657002	UNKNOWN	623100	558100	279000	837100	118396094	762243
Acenaphthene-d10-ISTD	1657002	UNKNOWN	1327000	1315000	657500	1972000	118396094	762243
Naphthalene-d8-ISTD	1657002	UNKNOWN	2493000	2250000	1125000	3375000	118396094	762243
Phenanthrene-d10-ISTD	1657002	UNKNOWN	2173000	1918000	959100	2877000	118396094	762243
1,4-Dichlorobenzene-d4-ISTD	1657518	MS	549600	558100	279000	837100	118396096	762243
Acenaphthene-d10-ISTD	1657518	MS	1132000	1315000	657500	1972000	118396096	762243
Naphthalene-d8-ISTD	1657518	MS	2103000	2250000	1125000	3375000	118396096	762243
Phenanthrene-d10-ISTD	1657518	MS	1879000	1918000	959100	2877000	118396096	762243

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	584089	CCV	3.650	3.650	3.590	3.710	118396088	584089
Acenaphthene-d10-ISTD	584089	CCV	6.080	6.080	6.020	6.140	118396088	584089
Naphthalene-d8-ISTD	584089	CCV	4.690	4.690	4.630	4.750	118396088	584089
Phenanthrene-d10-ISTD	584089	CCV	7.270	7.270	7.210	7.330	118396088	584089
1,4-Dichlorobenzene-d4-ISTD	761926	Blank	3.630	3.650	3.590	3.710	118396092	761926
Acenaphthene-d10-ISTD	761926	Blank	6.070	6.080	6.020	6.140	118396092	761926
Naphthalene-d8-ISTD	761926	Blank	4.660	4.690	4.630	4.750	118396092	761926
Phenanthrene-d10-ISTD	761926	Blank	7.250	7.270	7.210	7.330	118396092	761926
1,4-Dichlorobenzene-d4-ISTD	762243	Blank	3.610	3.650	3.590	3.710	118396089	762243
	762243	LCS	3.630	3.650	3.590	3.710	118396090	762243
	762243	LCS Dup	3.640	3.650	3.590	3.710	118396091	762243
Acenaphthene-d10-ISTD	762243	Blank	6.050	6.080	6.020	6.140	118396089	762243
	762243	LCS	6.070	6.080	6.020	6.140	118396090	762243
	762243	LCS Dup	6.070	6.080	6.020	6.140	118396091	762243
Naphthalene-d8-ISTD	762243	Blank	4.650	4.690	4.630	4.750	118396089	762243
	762243	LCS	4.660	4.690	4.630	4.750	118396090	762243
	762243	LCS Dup	4.670	4.690	4.630	4.750	118396091	762243
Phenanthrene-d10-ISTD	762243	Blank	7.240	7.270	7.210	7.330	118396089	762243
	762243	LCS	7.260	7.270	7.210	7.330	118396090	762243
	762243	LCS Dup	7.260	7.270	7.210	7.330	118396091	762243
1,4-Dichlorobenzene-d4-ISTD	1657001	UNKNOWN	3.630	3.650	3.590	3.710	118396093	762243
Acenaphthene-d10-ISTD	1657001	UNKNOWN	6.070	6.080	6.020	6.140	118396093	762243
Naphthalene-d8-ISTD	1657001	UNKNOWN	4.660	4.690	4.630	4.750	118396093	762243
Phenanthrene-d10-ISTD	1657001	UNKNOWN	7.250	7.270	7.210	7.330	118396093	762243
1,4-Dichlorobenzene-d4-ISTD	1657002	UNKNOWN	3.630	3.650	3.590	3.710	118396094	762243

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Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	1657002	UNKNOWN	6.060	6.080	6.020	6.140	118396094	762243
Naphthalene-d8-ISTD	1657002	UNKNOWN	4.660	4.690	4.630	4.750	118396094	762243
Phenanthrene-d10-ISTD	1657002	UNKNOWN	7.250	7.270	7.210	7.330	118396094	762243
1,4-Dichlorobenzene-d4-ISTD	1657518	MS	3.630	3.650	3.590	3.710	118396096	762243
Acenaphthene-d10-ISTD	1657518	MS	6.070	6.080	6.020	6.140	118396096	762243
Naphthalene-d8-ISTD	1657518	MS	4.660	4.690	4.630	4.750	118396096	762243
Phenanthrene-d10-ISTD	1657518	MS	7.250	7.270	7.210	7.330	118396096	762243

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limit%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	762243	0.0104	0.0102	0.025	40.7 - 115	41.6	40.8	mg/L	1.94	30.0
TCLP 2,4,6-Trichlorophenol	762243	0.0102	0.0099	0.025	38.0 - 113	40.8	39.6	mg/L	2.99	30.0
TCLP 2,4-Dinitrotoluene	762243	0.0118	0.012	0.025	40.0 - 133	47.2	48.0	mg/L	1.68	30.0
TCLP 2-Methylphenol (o-Cresol)	762243	0.00708	0.00689	0.025	13.5 - 94.7	28.3	27.6	mg/L	2.50	30.0
TCLP 3&4-Methylphenol (m&p-Creso	762243	0.00705	0.00676	0.025	0.100 - 115	28.2	27.0	mg/L	4.35	30.0
TCLP bis(2-Chloroethyl)ether	762243	0.00785	0.00722	0.025	22.4 - 126	31.4	28.9	mg/L	8.29	30.0
TCLP Hexachlorobenzene	762243	0.0124	0.0126	0.025	42.4 - 125	49.6	50.4	mg/L	1.60	30.0
TCLP Hexachlorobutadiene	762243	0.00698	0.0067	0.025	17.4 - 93.3	27.9	26.8	mg/L	4.02	30.0
TCLP Hexachloroethane	762243	0.00486	0.00445	0.025	15.5 - 94.1	19.4	17.8	mg/L	8.60	30.0
TCLP Nitrobenzene	762243	0.00952	0.00887	0.025	30.1 - 120	38.1	35.5	mg/L	7.07	30.0
TCLP Pentachlorophenol	762243	0.011	0.0104	0.025	18.9 - 132	44.0	41.6	mg/L	5.61	30.0
TCLP Pyridine (Reg. Limit 5)	762243	0.003	0.00262	0.025	3.87 - 86.3	12.0	10.5	mg/L	13.5	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1657518	0.114	0	ND	0.250	26.4 - 138	45.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	1657518	0.103	0	ND	0.250	26.4 - 141	41.2		mg/L		30.0
TCLP 2,4-Dinitrotoluene	1657518	0.137	0	ND	0.250	25.0 - 167	54.8		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	1657518	0.0639	0	ND	0.250	11.6 - 115	25.6		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	1657518	0.0608	0	ND	0.250	0.100 - 205	24.3		mg/L		30.0
TCLP bis(2-Chloroethyl)ether	1657518	0.0675	0	ND	0.250	18.4 - 125	27.0		mg/L		30.0
TCLP Hexachlorobenzene	1657518	0.142	0	ND	0.250	31.5 - 155	56.8		mg/L		30.0
TCLP Hexachlorobutadiene	1657518	0.064	0	ND	0.250	12.5 - 93.3	25.6		mg/L		30.0
TCLP Hexachloroethane	1657518	0.0377	0	ND	0.250	9.85 - 92.7	15.1		mg/L		30.0
TCLP Nitrobenzene	1657518	0.0921	0	ND	0.250	26.8 - 130	36.8		mg/L		30.0
TCLP Pentachlorophenol	1657518	0.132	0	ND	0.250	9.39 - 166	52.8		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	1657518	0.0239	0	ND	0.250	0.100 - 98.8	9.56		mg/L		30.0

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	584089	42.6	0.050	118396088
TCLP 4-Nitrophenol	584089	44.1	0.050	118396088
TCLP Hexachlorocyclopentadiene	584089	55.6	0.050	118396088
TCLP N-Nitroso-n-propylamine	584089	51.2	0.050	118396088

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	584089	CCV	52.9	100	mg/L	52.9	0.100 - 146	118396088
2-Fluorobiphenyl-SURR	584089	CCV	46.2	50.0	mg/L	92.4	13.0 - 116	118396088
2-Fluorophenol-SURR	584089	CCV	53.4	100	mg/L	53.4	14.7 - 67.5	118396088
4-Terphenyl-d14-SURR	584089	CCV	47.1	50.0	mg/L	94.2	15.7 - 121	118396088
Nitrobenzene-d5-SURR	584089	CCV	50.3	50.0	mg/L	101	15.0 - 120	118396088
Phenol-d6-SURR	584089	CCV	47.5	100	mg/L	47.5	0.396 - 58.3	118396088
2,4,6-Tribromophenol	761926	Blank	1.52	3.33	mg/L	45.6	0.100 - 146	118396092
2-Fluorobiphenyl-SURR	761926	Blank	19.9	50.0	mg/L	39.8	13.0 - 116	118396092
2-Fluorophenol-SURR	761926	Blank	26.8	100	mg/L	26.8	14.7 - 67.5	118396092
4-Terphenyl-d14-SURR	761926	Blank	26.8	50.0	mg/L	53.6	15.7 - 121	118396092
Nitrobenzene-d5-SURR	761926	Blank	18.4	50.0	mg/L	36.8	15.0 - 120	118396092
Phenol-d6-SURR	761926	Blank	18.7	100	mg/L	18.7	0.396 - 58.3	118396092
2,4,6-Tribromophenol	762243	Blank	1.11	3.33	mg/L	33.3	0.100 - 146	118396089
	762243	LCS	1.53	3.33	mg/L	45.9	0.100 - 146	118396090
	762243	LCS Dup	1.45	3.33	mg/L	43.5	0.100 - 146	118396091
2-Fluorobiphenyl-SURR	762243	Blank	14.6	50.0	mg/L	29.2	13.0 - 116	118396089
	762243	LCS	19.2	50.0	mg/L	38.4	13.0 - 116	118396090
	762243	LCS Dup	18.6	50.0	mg/L	37.2	13.0 - 116	118396091
2-Fluorophenol-SURR	762243	Blank	12.6	100	mg/L	12.6	14.7 - 67.5	118396089
	762243	LCS	21.4	100	mg/L	21.4	14.7 - 67.5	118396090
	762243	LCS Dup	20.8	100	mg/L	20.8	14.7 - 67.5	118396091
4-Terphenyl-d14-SURR	762243	Blank	26.5	50.0	mg/L	53.0	15.7 - 121	118396089
	762243	LCS	23.8	50.0	mg/L	47.6	15.7 - 121	118396090
	762243	LCS Dup	24.1	50.0	mg/L	48.2	15.7 - 121	118396091
Nitrobenzene-d5-SURR	762243	Blank	11.6	50.0	mg/L	23.2	15.0 - 120	118396089
	762243	LCS	18.2	50.0	mg/L	36.4	15.0 - 120	118396090
	762243	LCS Dup	16.9	50.0	mg/L	33.8	15.0 - 120	118396091
Phenol-d6-SURR	762243	Blank	8.24	100	mg/L	8.24	0.396 - 58.3	118396089
	762243	LCS	14.8	100	mg/L	14.8	0.396 - 58.3	118396090
	762243	LCS Dup	15.2	100	mg/L	15.2	0.396 - 58.3	118396091
2,4,6-Tribromophenol	1657001	UNKNOWN	0.434	1.00	mg/L	43.4	0.100 - 146	118396093
2-Fluorobiphenyl-SURR	1657001	UNKNOWN	0.166	0.500	mg/L	33.2	13.0 - 116	118396093
2-Fluorophenol-SURR	1657001	UNKNOWN	0.180	1.00	mg/L	18.0	14.7 - 67.5	118396093
4-Terphenyl-d14-SURR	1657001	UNKNOWN	0.242	0.500	mg/L	48.4	15.7 - 121	118396093
Nitrobenzene-d5-SURR	1657001	UNKNOWN	0.153	0.500	mg/L	30.6	15.0 - 120	118396093
Phenol-d6-SURR	1657001	UNKNOWN	0.123	1.00	mg/L	12.3	0.396 - 58.3	118396093
2,4,6-Tribromophenol	1657002	UNKNOWN	0.434	1.00	mg/L	43.4	0.100 - 146	118396094
2-Fluorobiphenyl-SURR	1657002	UNKNOWN	0.190	0.500	mg/L	38.0	13.0 - 116	118396094
2-Fluorophenol-SURR	1657002	UNKNOWN	0.225	1.00	mg/L	22.5	14.7 - 67.5	118396094
4-Terphenyl-d14-SURR	1657002	UNKNOWN	0.243	0.500	mg/L	48.6	15.7 - 121	118396094
Nitrobenzene-d5-SURR	1657002	UNKNOWN	0.168	0.500	mg/L	33.6	15.0 - 120	118396094
Phenol-d6-SURR	1657002	UNKNOWN	0.166	1.00	mg/L	16.6	0.396 - 58.3	118396094
2,4,6-Tribromophenol	1657518	MS	0.508	1.00	mg/L	50.8	0.100 - 146	118396096
2-Fluorobiphenyl-SURR	1657518	MS	0.187	0.500	mg/L	37.4	13.0 - 116	118396096
2-Fluorophenol-SURR	1657518	MS	0.211	1.00	mg/L	21.1	14.7 - 67.5	118396096
4-Terphenyl-d14-SURR	1657518	MS	0.265	0.500	mg/L	53.0	15.7 - 121	118396096
Nitrobenzene-d5-SURR	1657518	MS	0.164	0.500	mg/L	32.8	15.0 - 120	118396096
Phenol-d6-SURR	1657518	MS	0.159	1.00	mg/L	15.9	0.396 - 58.3	118396096

Analytical Set 763207

EPA 8151

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	761926	ND	0.000159	0.0005	mg/L	118405749
TCLP 2,4,5-TP (Silvex)	761926	ND	0.00008930	0.0003	mg/L	118405749
TCLP 2,4 D	762576	ND	0.000159	0.0005	mg/L	118405740
TCLP 2,4,5-TP (Silvex)	762576	ND	0.00008930	0.0003	mg/L	118405740

CCV

Parameter	Reading	Known	Units	Recover%	Limit%		File
TCLP 2,4 D	0.128	0.141	mg/L	90.8	70.0 - 130		118405739
	0.195	0.141	mg/L	138	70.0 - 130	*	118405752
TCLP 2,4,5-TP (Silvex)	0.127	0.142	mg/L	89.4	70.0 - 130		118405739
	0.194	0.142	mg/L	137	70.0 - 130	*	118405752

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limit%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	762576	0.000564	0.000759	0.0015	0.100 - 191	37.6	50.6	mg/L	29.5	30.0
TCLP 2,4,5-TP (Silvex)	762576	0.000534	0.000714	0.0015	12.8 - 163	35.6	47.6	mg/L	28.8	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limit	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	1656467	0.566	0	ND	1.50	0.100 - 209	37.7		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	1656467	0.540	0	ND	1.50	20.0 - 175	36.0		mg/L		30.0
TCLP 2,4 D	1656491	0.849	0	ND	1.50	0.100 - 209	56.6		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	1656491	0.792	0	ND	1.50	20.0 - 175	52.8		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limit%	File
2,4-Dichlorophenylacetic Acid	583038	CCV	0.137	0.100	mg/L	137	24.7 - 223	118405739
	583038	CCV	0.219	0.100	mg/L	219	24.7 - 223	118405752
	761926	Blank	0.0947	0.100	mg/L	94.7	24.7 - 223	118405749
	762576	Blank	0.0491	0.100	mg/L	49.1	24.7 - 223	118405740
	762576	LCS	0.0772	0.100	mg/L	77.2	24.7 - 223	118405741
	762576	LCS Dup	0.104	0.100	mg/L	104	24.7 - 223	118405742
	1656467	MS	0.804	1.00	mg/L	80.4	24.7 - 223	118405745
	1656491	MS	1.19	1.00	mg/L	119	24.7 - 223	118405748
	1657001	UNKNOWN	0.818	1.00	mg/L	81.8	24.7 - 223	118405750
	1657002	UNKNOWN	0.583	1.00	mg/L	58.3	24.7 - 223	118405751

Analytical Set 763548

EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	761926	ND	0.00000180	0.00001	mg/L	118412266
TCLP Endrin	761926	ND	0.00000850	0.00001	mg/L	118412266
TCLP gamma-BHC (Lindane)	761926	ND	0.00000890	0.00001	mg/L	118412266
TCLP Heptachlor	761926	ND	0.00000140	0.00001	mg/L	118412266
TCLP Heptachlor Epoxide	761926	ND	0.00000120	0.00001	mg/L	118412266
TCLP Methoxychlor	761926	ND	0.00000560	0.00001	mg/L	118412266
TCLP Toxaphene	761926	ND	0.00000370	0.00001	mg/L	118412266
TCLP Chlordane	762308	ND	0.00000180	0.00001	mg/L	118412260
TCLP Endrin	762308	ND	0.00000850	0.00001	mg/L	118412260

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP gamma-BHC (Lindane)	762308	ND	0.00000890	0.00001	mg/L	118412260
TCLP Heptachlor	762308	ND	0.00000140	0.00001	mg/L	118412260
TCLP Heptachlor Epoxide	762308	ND	0.00000120	0.00001	mg/L	118412260
TCLP Methoxychlor	762308	ND	0.00000560	0.00001	mg/L	118412260
TCLP Toxaphene	762308	ND	0.00000370	0.00001	mg/L	118412260

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.0975	0.100	mg/L	97.5	80.0 - 120	118412258
	0.104	0.100	mg/L	104	80.0 - 120	118412279
TCLP gamma-BHC (Lindane)	0.0921	0.100	mg/L	92.1	80.0 - 120	118412258
	0.0945	0.100	mg/L	94.5	80.0 - 120	118412279
TCLP Heptachlor	0.104	0.100	mg/L	104	80.0 - 120	118412258
	0.117	0.100	mg/L	117	80.0 - 120	118412279
TCLP Heptachlor Epoxide	0.103	0.100	mg/L	103	80.0 - 120	118412258
	0.108	0.100	mg/L	108	80.0 - 120	118412279
TCLP Methoxychlor	0.096	0.100	mg/L	96.0	80.0 - 120	118412258
	0.117	0.100	mg/L	117	80.0 - 120	118412279

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	762308	0.00086	0.000855	0.001	43.9 - 138	86.0	85.5	mg/L	0.583	30.0
TCLP gamma-BHC (Lindane)	762308	0.000647	0.000765	0.001	33.0 - 129	64.7	76.5	mg/L	16.7	30.0
TCLP Heptachlor	762308	0.000714	0.000843	0.001	20.4 - 127	71.4	84.3	mg/L	16.6	30.0
TCLP Heptachlor Epoxide	762308	0.000819	0.000864	0.001	43.5 - 126	81.9	86.4	mg/L	5.35	30.0
TCLP Methoxychlor	762308	0.00105	0.00101	0.001	29.4 - 146	105	101	mg/L	3.88	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	1657002	0.00434	0	ND	0.005	13.5 - 164	86.8		mg/L		30.0
TCLP gamma-BHC (Lindane)	1657002	0.00401	0	ND	0.005	10.6 - 144	80.2		mg/L		30.0
TCLP Heptachlor	1657002	0.00401	0	ND	0.005	3.39 - 138	80.2		mg/L		30.0
TCLP Heptachlor Epoxide	1657002	0.0044	0	ND	0.005	19.8 - 142	88.0		mg/L		30.0
TCLP Methoxychlor	1657002	0.00503	0	ND	0.005	4.22 - 190	101		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	0.0971	0.100	mg/L	97.1	10.0 - 150	118412258
		CCV	0.106	0.100	mg/L	106	10.0 - 150	118412279
Tetrachloro-m-Xylene (Surr)		CCV	0.102	0.100	mg/L	102	10.0 - 150	118412258
		CCV	0.100	0.100	mg/L	100	10.0 - 150	118412279
Decachlorobiphenyl	761926	Blank	0.078	0.100	mg/L	78.0	10.0 - 150	118412266
Tetrachloro-m-Xylene (Surr)	761926	Blank	0.0635	0.100	mg/L	63.5	10.0 - 150	118412266
Decachlorobiphenyl	762308	Blank	0.0645	0.100	mg/L	64.5	10.0 - 150	118412260
	762308	LCS	0.0556	0.100	mg/L	55.6	10.0 - 150	118412261
	762308	LCS Dup	0.0737	0.100	mg/L	73.7	10.0 - 150	118412262
Tetrachloro-m-Xylene (Surr)	762308	Blank	0.0463	0.100	mg/L	46.3	10.0 - 150	118412260
	762308	LCS	0.0528	0.100	mg/L	52.8	10.0 - 150	118412261
	762308	LCS Dup	0.0693	0.100	mg/L	69.3	10.0 - 150	118412262

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	1657002	MS	0.00238	0.005	mg/L	47.6	10.0 - 150	118412269
Tetrachloro-m-Xylene (Surr)	1657002	MS	0.00332	0.005	mg/L	66.4	10.0 - 150	118412269

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

Blank - Method Blank; MS - Matrix Spike; CCV - Continuing Calibration Verification; ICV - Initial Calibration Verification; LDR - Linear Dynamic Range Standard; BFB - GC/MS Tuning Compound; DFTPP - GC/MS Tuning Compound

1 of 2

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Chain of Custody

GBRA

Guadalupe-Blanco River Authority - Regional Laboratory
905 E. Court Street, Seguin, Texas 78155
(830) 379-5822 fax (830) 379-7478

Customer Information

Customer Acct.#: _____ RUSH Due Date: _____ by EOB

Name: GBRA Billing Address: labcustinvoices@gbra.org

Address: 933 East Court St Phone #: (830)379-5822 Fax #:

Seguin, TX 78155 E-mail: labreports@gbra.org ☐ E-mail Only ☐ Hold Only

Sample Collected By: _____ Signature _____ Printed Name

Thermometer No. _____ Residual Chlorine (Total/Free) Results _____

pH Paper GBRA reagent no. _____

Date Collected	Time Collected	Matrix	Six Vol. Amber Glass	Sample Name/Description	TCEQ ID Number	Grab/Comp.	Analysis Requested	GBRA Sample I.D.	Bottle Lot #	pH	GBRA Preservation	Rush sample (TAC 25.5(e))
1/25/2018	9:30	WW	2-1 L G	286820		G	Oil & Grease	1657000			H2SO4	
1/25/2018	9:30	S	4-12 Amber G	286821			TCLP Pb	001				
1/25/2018	9:30	S	4-11 Amber G	286822			TCLP Pb	002				
							Release Time Estimated Due to Pick Up Window Of Carrier					

Delivered By: _____ Date/Time: 1/25/18 1250 Received By: Common Carrier Date/Time: 1/25/18 12:00

Delivered By: Common Carrier Date/Time: 1/25/18 12:00 Received By: Kathryn Janecka Ana-Lab Date/Time: 1/26/18 0910

**Special Notes/Ship to: _____

Ice: _____ (Y or N) Number of Containers: _____ Condition of Container(s): (Intact) _____

See Attached for Tracking # and Terms

RL-042/COC-0101/TWO-6000/2011 TCEQ Appr. 10 GBRA Doc. 3019-C Rev 17 Eff. 6/18/2018 10A

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2600 DUDLEY RD
KILGORE, TX 75663
9039840551

From:
JENNIFER BLINDER
GERA
933 EAST COURT
SEGUIN, TX 78155
8303796822

0.10

6205 8082 8063

0.50

G GGG LSO ECONOMY NEXT DAY
3:00 IN MOST AREAS
LATER IN REMOTE AREAS

PRINT DATE: 1/26/2018
QUICKCODE: HQ
REF 1: 1D00V.0000

WEIGHT: 5.00LBS

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned. Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on Find A Drop Box from the home page main menu.
4. To schedule a pickup, click on Request Pickup.

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 Lone Star Overnight account number.
This label is valid for use for 3 months from the date printed. Use of expired labels may result in delayed billing and / or additional research charges. LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

SPL
The Science of Sure

Project
1107888

GBRE-C

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Printed 07/10/2024
11:24

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1107888_r10_05_ProjectQC	SPL Kilgore Project P:1107888 C:GBRE Project Quality Control Groups	20
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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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SPL The Science of Sure

SAMPLE CROSS REFERENCE

Project
1107888

SLUDGE

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Sample	Sample ID	Taken	Time	Received
2309996	*Sunfield Sludge Annual*	06/18/2024	09:00:00	06/21/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract (Batch 1125427) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 05 Prepared Bottle: TCLP Extract for Metals (Batch 1125427) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1125427) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for TVOA (Batch 1125429)<== Derived from 01 (0 ml)
Bottle 08 Prepared Bottle: TEDLAR BAG (Batch 1125429) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 09 Prepared Bottle: Mercury Preparation for Metals (Batch 1125440) Volume: 50.00000 mL <== Derived from 03 (0.5 grams)
Bottle 10 Prepared Bottle: 2 mL Autosampler Vial (Batch 1125573) Volume: 10.00000 mL <== Derived from 02 (20 grams)
Bottle 11 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1125699) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 12 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1125699) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 13 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1125699) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 14 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.4 grams)
Bottle 15 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.3 grams)
Bottle 16 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.3 grams)
Bottle 17 Prepared Bottle: TCLP Acid Digestion (Batch 1125777) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1125879) Volume: 1.00000 mL <== Derived from 06 (100 ml)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1126055) Volume: 10.00000 mL <== Derived from 06 (1 ml)
Bottle 20 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1126252) Volume: 10.00000 mL <== Derived from 06 (200 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	10	1125573	06/24/2024	1126708	06/29/2024
EPA 6020A	14	1125744	06/26/2024	1125903	06/27/2024
EPA 6020A	17	1125777	06/26/2024	1125881	06/26/2024
EPA 6020A	14	1125744	06/26/2024	1126155	06/27/2024
EPA 7470 A	11	1125699	06/26/2024	1125819	06/26/2024
EPA 7471B 2	09	1125440	06/25/2024	1125566	06/25/2024
EPA 6020A	17	1125777	06/26/2024	1126160	06/27/2024
EPA 8260B	08	1125429	06/24/2024	1125705	06/25/2024
EPA 8081A	20	1126252	06/28/2024	1127320	07/02/2024
EPA 8270C	18	1125879	06/26/2024	1126681	07/01/2024
EPA 8151	19	1126055	06/27/2024	1126411	06/28/2024
SM2540 G-1997 /MOD	03	1125284	06/21/2024	1125284	06/21/2024

Sample	Sample ID	Taken	Time	Received
2310000	*Shadow Creek Annual*	06/18/2024	10:00:00	06/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

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SAMPLE CROSS REFERENCE

Project 1107888

SLUDGE

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract (Batch 1125427) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 05 Prepared Bottle: TCLP Extract for Metals (Batch 1125427) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1125427) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for TVOA (Batch 1125429)<== Derived from 01 (0 ml)
Bottle 08 Prepared Bottle: TEDLAR BAG (Batch 1125429) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 09 Prepared Bottle: Mercury Preparation for Metals (Batch 1125440) Volume: 50.00000 mL <== Derived from 01 (0.5 grams)
Bottle 10 Prepared Bottle: Mercury Preparation for Metals (Batch 1125440) Volume: 50.00000 mL <== Derived from 01 (0.5 grams)
Bottle 11 Prepared Bottle: Mercury Preparation for Metals (Batch 1125440) Volume: 50.00000 mL <== Derived from 01 (0.5 grams)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1125573) Volume: 10.00000 mL <== Derived from 02 (20 grams)
Bottle 13 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1125699) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 14 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.3 grams)
Bottle 15 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.3 grams)
Bottle 16 Prepared Bottle: ICP Preparation for Metals (Batch 1125744) Volume: 50.00000 mL <== Derived from 01 (10.4 grams)
Bottle 17 Prepared Bottle: TCLP Acid Digestion (Batch 1125777) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1125879) Volume: 1.00000 mL <== Derived from 06 (100 ml)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1126055) Volume: 10.00000 mL <== Derived from 06 (1 ml)
Bottle 20 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1126252) Volume: 10.00000 mL <== Derived from 06 (200 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	12	1125573	06/24/2024	1126708	06/29/2024
EPA 6020A	14	1125744	06/26/2024	1125903	06/27/2024
EPA 6020A	17	1125777	06/26/2024	1125881	06/26/2024
EPA 6020A	14	1125744	06/26/2024	1126155	06/27/2024
EPA 7470 A	13	1125699	06/26/2024	1125819	06/26/2024
EPA 7471B 2	09	1125440	06/25/2024	1125566	06/25/2024
EPA 6020A	17	1125777	06/26/2024	1126160	06/27/2024
EPA 8260B	08	1125429	06/24/2024	1125705	06/25/2024
EPA 8081A	20	1126252	06/28/2024	1127320	07/02/2024
EPA 8270C	18	1125879	06/26/2024	1126681	07/01/2024
EPA 8151	19	1126055	06/27/2024	1126411	06/28/2024
SM2540 G-1997 /MOD	03	1125284	06/21/2024	1125284	06/21/2024

Sample	Sample ID	Taken	Time	Received
2310001	*Buda Sludge - Annual*	06/18/2024	12:45:00	06/21/2024

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GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Printed: 07/10/2024

2310000 Shadow Creek Annual Received: 06/21/2024

Solid & Chemical Materials Collected by: Client GBRA Buda PO:
Taken: 06/18/2024 10:00:00

EPA 6020A Prepared: 1125744 06/26/2024 14:33:46 Analyzed 1125903 06/27/2024 14:57:30 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Arsenic, Total**	**3.34 ***	**mg/kg**	2.52	D	**7440-38-2**	14
NELAC	**Copper, Total**	**199 ***	**mg/kg**	1.26	D	**7440-50-8**	14
NELAC	**Lead, Total**	**7.76 ***	**mg/kg**	1.26		**7439-92-1**	14
NELAC	**Selenium, Total**	**8.33 ***	**mg/kg**	3.79	D	**7782-49-2**	14

EPA 6020A Prepared: 1125777 06/27/2024 10:28:24 Analyzed 1125881 06/26/2024 20:51:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Arsenic**	**<0.0451**	**mg/L**	0.0451		**7440-38-2**	17
NELAC	**TCLP Cadmium**	**<0.006**	**mg/L**	0.006		**7440-43-9**	17
NELAC	**TCLP Chromium**	**<0.0196**	**mg/L**	0.0196		**7440-47-3**	17
NELAC	**TCLP Copper**	**<0.0162**	**mg/L**	0.0162		**7440-50-8**	17
NELAC	**TCLP Lead**	**<0.0274**	**mg/L**	0.0274		**7439-92-1**	17
NELAC	**TCLP Nickel**	**<0.0077**	**mg/L**	0.0077		**7440-02-0**	17

EPA 6020A Prepared: 1125777 06/27/2024 10:28:24 Analyzed 1126160 06/27/2024 18:34:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Molybdenum**	**0.0208**	**mg/L**	0.050	J	**7439-98-7**	17
NELAC	**TCLP Selenium**	**<0.147**	**mg/L**	0.147		**7782-49-2**	17
NELAC	**TCLP Zinc**	**0.248**	**mg/L**	0.050		**7440-66-6**	17

* Dry Weight Basis

EPA 7470 A Prepared: 1125699 06/26/2024 09:47:12 Analyzed 1125819 06/26/2024 12:28:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Mercury**	**<0.00113**	**mg/L**	0.00113		**7439-97-6**	13

EPA 7471B 2 Prepared: 1125440 06/25/2024 07:00:00 Analyzed 1125566 06/25/2024 10:03:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury**	**<0.216 ***	**mg/kg**	0.216		**7439-97-6**	09

* Dry Weight Basis

EPA 8081A Prepared: 1126252 06/28/2024 13:00:00 Analyzed 1127320 07/02/2024 01:40:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Jesi Mann
575 Garison Rd
Buda, TX 78610

Printed: 07/10/2024

2310000 Shadow Creek Annual Received: 06/21/2024

Solid & Chemical Materials | Collected by: Client | GBRA Buda | PO:
Taken: 06/18/2024 10:00:00

EPA 8081A — Prepared: 1126252 06/28/2024 13:00:00 — Analyzed 1127320 07/02/2024 01:40:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Chlordane**	**<0.001**	**mg/L**	0.001		**57-74-9**	20
NELAC	**TCLP Endrin**	**<0.00005**	**mg/L**	0.00005		**72-20-8**	20
NELAC	**TCLP gamma-BHC (Lindane)**	**<0.00005**	**mg/L**	0.00005		**58-89-9**	20
NELAC	**TCLP Heptachlor**	**<0.00005**	**mg/L**	0.00005		**76-44-8**	20
NELAC	**TCLP Heptachlor Epoxide**	**<0.00005**	**mg/L**	0.00005		**1024-57-3**	20
NELAC	**TCLP Methoxychlor**	**<0.00005**	**mg/L**	0.00005		**72-43-5**	20
NELAC	**TCLP Toxaphene**	**<0.001**	**mg/L**	0.001		**8001-35-2**	20

EPA 8082 — Prepared: 1125573 06/24/2024 14:30:00 — Analyzed 1126708 06/29/2024 00:13:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**PCB-1016**	**<1000 ***	**ug/kg**	1000	S	**12674-11-2**	12
NELAC	**PCB-1221**	**<1000 ***	**ug/kg**	1000		**11104-28-2**	12
NELAC	**PCB-1232**	**<1000 ***	**ug/kg**	1000		**11141-16-5**	12
NELAC	**PCB-1242**	**<1000 ***	**ug/kg**	1000		**53469-21-9**	12
NELAC	**PCB-1248**	**<1000 ***	**ug/kg**	1000		**12672-29-6**	12
NELAC	**PCB-1254**	**<1000 ***	**ug/kg**	1000		**11097-69-1**	12
NELAC	**PCB-1260**	**<1000 ***	**ug/kg**	1000	S	**11096-82-5**	12
NELAC	**PCB-1262**	**<1000 ***	**ug/kg**	1000		**37324-23-5**	12
NELAC	**PCB-1268**	**<1000 ***	**ug/kg**	1000		**11100-14-4**	12

* Dry Weight Basis

EPA 8151 — Prepared: 1126055 06/27/2024 14:00:00 — Analyzed 1126411 06/28/2024 21:58:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 2,4 D**	**<0.500**	**mg/L**	0.500		**94-75-7**	19
NELAC	**TCLP 2,4,5-TP (Silvex)**	**<0.300**	**mg/L**	0.300		**93-72-1**	19

EPA 8260B — Prepared: 1125429 06/26/2024 07:59:18 — Analyzed 1125705 06/25/2024 16:34:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 1,1-Dichloroethene**	**<0.010**	**mg/L**	0.010		**75-35-4**	08
NELAC	**TCLP 1,2-Dichloroethane**	**<0.010**	**mg/L**	0.010		**107-06-2**	08
NELAC	**TCLP 1,4 Dichlorobenzene**	**<0.010**	**mg/L**	0.010		**106-46-7**	08
NELAC	**TCLP Benzene**	**<0.010**	**mg/L**	0.010		**71-43-2**	08

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Jesi Mann
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Buda, TX 78610

Printed: 07/10/2024

2310000 Shadow Creek Annual Received: 06/21/2024

Solid & Chemical Materials Collected by: Client GBRA Buda PO:
Taken: 06/18/2024 10:00:00

EPA 8260B Prepared: 1125429 06/26/2024 07:59:18 Analyzed 1125705 06/25/2024 16:34:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Carbon tetrachloride**	**<0.010**	**mg/L**	0.010		**56-23-5**	08
NELAC	**TCLP Chlorobenzene**	**<0.010**	**mg/L**	0.010		**108-90-7**	08
NELAC	**TCLP Chloroform**	**<0.010**	**mg/L**	0.010		**67-66-3**	08
NELAC	**TCLP MEK**	**<0.010**	**mg/L**	0.010		**78-93-3**	08
NELAC	**TCLP Tetrachloroethylene**	**<0.010**	**mg/L**	0.010		**127-18-4**	08
NELAC	**TCLP Trichloroethylene**	**<0.010**	**mg/L**	0.010		**79-01-6**	08
NELAC	**TCLP Vinyl chloride**	**<0.010**	**mg/L**	0.010		**75-01-4**	08

EPA 8270C Prepared: 1125879 06/26/2024 14:30:00 Analyzed 1126681 07/01/2024 21:04:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 2,4,5-Trichlorophenol**	**<0.050**	**mg/L**	0.050	D	**95-95-4**	18
NELAC	**TCLP 2,4,6-Trichlorophenol**	**<0.020**	**mg/L**	0.020	D	**88-06-2**	18
NELAC	**TCLP 2,4-Dinitrotoluene**	**<0.020**	**mg/L**	0.020	D	**121-14-2**	18
NELAC	**TCLP 2-Methylphenol (o-Cresol)**	**<0.100**	**mg/L**	0.100		**95-48-7**	18
NELAC	**TCLP 3&4-Methylphenol (m&p-Creso**	**<0.080**	**mg/L**	0.080		**108-39-4**	18
NELAC	**TCLP Hexachlorobenzene**	**<0.010**	**mg/L**	0.010	D	**118-74-1**	18
NELAC	**TCLP Hexachlorobutadiene**	**<0.0103**	**mg/L**	0.0103		**87-68-3**	18
NELAC	**TCLP Hexachloroethane**	**<0.020**	**mg/L**	0.020		**67-72-1**	18
NELAC	**TCLP Nitrobenzene**	**<0.010**	**mg/L**	0.010	D	**98-95-3**	18
NELAC	**TCLP Pentachlorophenol**	**<0.050**	**mg/L**	0.050		**87-86-5**	18
NELAC	**TCLP Pyridine (Reg. Limit 5)**	**<0.0135**	**mg/L**	0.0135	D	**110-86-1**	18

EPA 8270C Prepared: 1125879 06/26/2024 14:30:00 Calculated 1126681 07/02/2024 14:51:35 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**TCLP Total Cresols (Reg Lim 200)**	**<0.080**	**mg/L**	0.080		**108-39-4,ect.**	18

SM2540 G-1997 /MOD Prepared: 1125284 06/21/2024 14:30:00 Analyzed 1125284 06/21/2024 14:30:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**1.92**	**%**	0.010			03

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Printed: 07/10/2024

2310000 **Shadow Creek Annual** Received: 06/21/2024

06/18/2024

		Prepared:		*06/21/2024*	*12:11:32*	*Calculated*	*06/21/2024*	*12:11:32*	*CAL*
	Pickup/Sampling/Transport	**Verified**							
	Calculation	*Prepared:*		*07/10/2024*	*08:25:07*	*Calculated*	*07/10/2024*	*08:25:07*	*CAL*
	As Received to Dry Weight Basis	**Calculated**							
	EPA 1311	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1125427*	*06/26/2024*	*08:03:34*	*SLF*
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**							01
	EPA 1311ZHE	*Prepared:*	*1125429*	*06/26/2024*	*07:59:18*	*Analyzed*	*1125429*	*06/26/2024*	*07:59:18*	*SLF*
NELAC	**TCLP Extraction ZHE Volatiles**	**100% SOLID**	**ml**							01
	EPA 3005A	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1125777*	*06/27/2024*	*10:28:24*	*TES*
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**							05
	EPA 3050B	*Prepared:*	*1125744*	*06/26/2024*	*14:33:46*	*Analyzed*	*1125744*	*06/26/2024*	*14:33:46*	*TES*
NELAC	**Solid/Sludge/Soil/Sediment Metal**	**50/10.32**	**grams**							01
	EPA 3510C	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1125879*	*06/26/2024*	*14:30:00*	*CRS*
	TCLP Liquid-Liquid Extract	**1/100**	**ml**							06
	EPA 3510C	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1126252*	*06/28/2024*	*13:00:00*	*CRS*

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06/18/2024

EPA 3510C		*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1126252*	*06/28/2024*	*13:00:00*	*CRS*
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**							06
EPA 3510C		*Prepared:*	*1125573*	*06/24/2024*	*14:30:00*	*Analyzed*	*1125573*	*06/24/2024*	*14:30:00*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**10/20**	**grams**							02
EPA 7470A		*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1125699*	*06/26/2024*	*09:47:12*	*ALB*
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**							05
EPA 7471B		*Prepared:*	*1125440*	*06/25/2024*	*07:00:00*	*Analyzed*	*1125440*	*06/25/2024*	*07:00:00*	*ALB*
NELAC	**Solid Metals Digestion Hg**	**50/0.5064**	**grams**							01
EPA 8081A		*Prepared:*	*1126252*	*06/28/2024*	*13:00:00*	*Analyzed*	*1127320*	*07/02/2024*	*01:40:00*	*KAP*
NELAC	**GC TCLP Pesticide**	**Entered**								20
EPA 8082		*Prepared:*	*1125573*	*06/24/2024*	*14:30:00*	*Analyzed*	*1126708*	*06/29/2024*	*00:13:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								12
EPA 8151		*Prepared:*	*1126055*	*06/27/2024*	*14:00:00*	*Analyzed*	*1126411*	*06/28/2024*	*21:58:00*	*KAP*
NELAC	**GC TCLP Herbicide**	**Entered**								19
EPA 8151A (Prep)		*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1126055*	*06/27/2024*	*14:00:00*	*CRS*

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Printed: 07/10/2024

2310000 Shadow Creek Annual Received: 06/21/2024

06/18/2024

	EPA 8151A (Prep)	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1126055*	*06/27/2024*	*14:00:00*	*CRS*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							06
	EPA 8260B	*Prepared:*	*1125429*	*06/26/2024*	*07:59:18*	*Analyzed*	*1125705*	*06/25/2024*	*16:34:00*	*MR1*
NELAC	**MS TCLP Volatile Analysis**	**Entered**								08
	EPA 8270C	*Prepared:*	*1125879*	*06/26/2024*	*14:30:00*	*Analyzed*	*1126681*	*07/01/2024*	*21:04:00*	*PM1*
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**								18
	SM 2540 G-1997	*Prepared:*	*1125219*	*06/21/2024*	*14:30:00*	*Analyzed*	*1125219*	*06/21/2024*	*14:30:00*	*JMB*
NELAC	**Total Solids Start Code**	**Started**								

2310001 Buda Sludge - Annual Received: 06/21/2024

06/18/2024

	Calculation	*Prepared:*		*07/10/2024*	*08:25:07*	*Calculated*		*07/10/2024*	*08:25:07*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
	EPA 1311	*Prepared:*	*1125427*	*06/26/2024*	*08:03:34*	*Analyzed*	*1125427*	*06/26/2024*	*08:03:34*	*SLF*
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**							01

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GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Printed: 07/10/2024

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
S - Standard reads lower than desired

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

SPL The Science of Sure

GBRE-C

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

Project
1107888

Printed 07/10/2024

Analytical Set 1125284 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1125284	0.0001			grams	126478808

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2309897	82.4	83.5	%	1.33	20.0
Total Solids for Dry Wt Conversi	2310045	99.0	98.9	%	0.101	20.0

Analytical Set 1125566 — EPA 7471B 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury	1125440	0.0000762	0.0000419	0.0001	mg/kg	126486787

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.005	0.005	mg/kg	100	90.0 - 110	126486785
Mercury	0.00498	0.005	mg/kg	99.6	90.0 - 110	126486786
Mercury	0.00505	0.005	mg/kg	101	90.0 - 110	126486795
Mercury	0.00453	0.005	mg/kg	90.6	90.0 - 110	126486796

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0199	0.02	mg/kg	99.5	90.0 - 110	126486784

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00482	0.005	mg/kg	96.4	90.0 - 110	126486783

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury	1125440	0.00829	0.00796	0.010	78.6 - 104	82.9	79.6	mg/kg	4.06	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	2310000	0.823	0.813	ND	0.985	74.3 - 109	83.9	82.9	mg/kg	1.22	25.0

Analytical Set 1125819 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1125699	ND	0.000113	0.0002	mg/L	126492148

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00508	0.005	mg/L	102	90.0 - 110	126492139
TCLP Mercury	0.00524	0.005	mg/L	105	90.0 - 110	126492140
TCLP Mercury	0.00518	0.005	mg/L	104	90.0 - 110	126492147

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.00514	0.005	mg/L	103	90.0 - 110	126492154
TCLP Mercury	0.00504	0.005	mg/L	101	90.0 - 110	126492164
TCLP Mercury	0.00511	0.005	mg/L	102	90.0 - 110	126492165
TCLP Mercury	0.00479	0.005	mg/L	95.8	90.0 - 110	126492173

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.0206	0.02	mg/L	103	90.0 - 110	126492138

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.0052	0.005	mg/L	104	90.0 - 110	126492137

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Mercury	1125699	0.00936	0.00898	0.010	85.1 - 117	93.6	89.8	mg/L	4.14	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Mercury	2309996	0.0947	0.0901	ND	0.100	80.9 - 121	94.7	90.1	mg/L	4.98	20.0

Analytical Set 1125881 — **EPA 6020A**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Arsenic	1125777	0.00287	0.000902	0.001	mg/L	126493863
TCLP Cadmium	1125777	ND	0.00012	0.001	mg/L	126493863
TCLP Chromium	1125777	0.00565	0.000392	0.001	mg/L	126493863
TCLP Copper	1125777	0.00118	0.000325	0.001	mg/L	126493863
TCLP Lead	1125777	ND	0.000549	0.001	mg/L	126493863
TCLP Nickel	1125777	0.000199	0.000154	0.001	mg/L	126493863

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	0.0491	0.05	mg/L	98.2	90.0 - 110	126493859
TCLP Arsenic	0.0477	0.05	mg/L	95.4	90.0 - 110	126493870
TCLP Arsenic	0.0486	0.05	mg/L	97.2	90.0 - 110	126493880
TCLP Cadmium	0.0501	0.05	mg/L	100	90.0 - 110	126493859
TCLP Cadmium	0.0499	0.05	mg/L	99.8	90.0 - 110	126493870
TCLP Cadmium	0.0511	0.05	mg/L	102	90.0 - 110	126493880
TCLP Chromium	0.0512	0.05	mg/L	102	90.0 - 110	126493859
TCLP Chromium	0.0507	0.05	mg/L	101	90.0 - 110	126493870
TCLP Chromium	0.0523	0.05	mg/L	105	90.0 - 110	126493880
TCLP Copper	0.0505	0.05	mg/L	101	90.0 - 110	126493859
TCLP Copper	0.0507	0.05	mg/L	101	90.0 - 110	126493870
TCLP Copper	0.0519	0.05	mg/L	104	90.0 - 110	126493880
TCLP Lead	0.0521	0.05	mg/L	104	90.0 - 110	126493859

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Lead	0.0518	0.05	mg/L	104	90.0 - 110	126493870
TCLP Lead	0.0544	0.05	mg/L	109	90.0 - 110	126493880
TCLP Nickel	0.0514	0.05	mg/L	103	90.0 - 110	126493859
TCLP Nickel	0.0506	0.05	mg/L	101	90.0 - 110	126493870
TCLP Nickel	0.0517	0.05	mg/L	103	90.0 - 110	126493880

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.048	0.05	mg/L	96.0	90.0 - 110	126493802
TCLP Cadmium	0.0481	0.05	mg/L	96.2	90.0 - 110	126493802
TCLP Chromium	0.050	0.05	mg/L	100	90.0 - 110	126493802
TCLP Copper	0.0501	0.05	mg/L	100	90.0 - 110	126493802
TCLP Lead	0.0487	0.05	mg/L	97.4	90.0 - 110	126493802
TCLP Nickel	0.0501	0.05	mg/L	100	90.0 - 110	126493802

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	1125777	0.494	0.479	0.500	82.8 - 120	98.8	95.8	mg/L	3.08	14.0
TCLP Cadmium	1125777	0.247	0.244	0.250	86.0 - 115	98.8	97.6	mg/L	1.22	14.0
TCLP Chromium	1125777	0.494	0.481	0.500	84.3 - 118	98.8	96.2	mg/L	2.67	14.0
TCLP Copper	1125777	0.501	0.493	0.500	80.8 - 115	100	98.6	mg/L	1.61	14.0
TCLP Lead	1125777	0.503	0.488	0.500	85.1 - 115	101	97.6	mg/L	3.03	14.0
TCLP Nickel	1125777	0.492	0.486	0.500	82.0 - 114	98.4	97.2	mg/L	1.23	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2309430	2.58	2.52	0.0484	2.50	84.9 - 114	101	98.9	mg/L	2.40	20.0
TCLP Cadmium	2309430	1.40	1.34	0.00257	1.25	78.2 - 120	112	107	mg/L	4.39	20.0
TCLP Chromium	2309430	2.89	2.73	0.0535	2.50	86.0 - 117	113	107	mg/L	5.80	20.0
TCLP Copper	2309430	2.96	2.77	ND	2.50	77.4 - 111	118 *	111	mg/L	6.63	20.0
TCLP Lead	2309430	2.97	2.82	0.00749	2.50	85.0 - 116	119 *	113	mg/L	5.19	20.0
TCLP Nickel	2309430	2.93	2.77	0.0107	2.50	76.4 - 114	117 *	110	mg/L	5.64	20.0

Analytical Set 1125903 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Arsenic, Total	1125744	0.00121	0.000492	0.002	mg/kg		126495243
Copper, Total	1125744	ND	0.000618	0.001	mg/kg		126495243
Lead, Total	1125744	0.000127	0.0000963	0.001	mg/kg		126495243
Selenium, Total	1125744	0.00319	0.000835	0.003	mg/kg	*	126495243

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0539	0.05	mg/kg	108	90.0 - 110	126495242
Arsenic, Total	0.0515	0.05	mg/kg	103	90.0 - 110	126495249
Arsenic, Total	0.0494	0.05	mg/kg	98.8	90.0 - 110	126495254

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Copper, Total	0.0499	0.05	mg/kg	99.8	90.0 - 110	126495242
Copper, Total	0.049	0.05	mg/kg	98.0	90.0 - 110	126495249
Copper, Total	0.0496	0.05	mg/kg	99.2	90.0 - 110	126495254
Lead, Total	0.0502	0.05	mg/kg	100	90.0 - 110	126495242
Lead, Total	0.0541	0.05	mg/kg	108	90.0 - 110	126495249
Lead, Total	0.0462	0.05	mg/kg	92.4	90.0 - 110	126495254
Selenium, Total	0.0548	0.05	mg/kg	110	90.0 - 110	126495242
Selenium, Total	0.0522	0.05	mg/kg	104	90.0 - 110	126495249
Selenium, Total	0.0481	0.05	mg/kg	96.2	90.0 - 110	126495254

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Arsenic, Total	0.0497	0.05	mg/kg	99.4	90.0 - 110	126495184
Copper, Total	0.0505	0.05	mg/kg	101	90.0 - 110	126495184
Lead, Total	0.0488	0.05	mg/kg	97.6	90.0 - 110	126495184
Selenium, Total	0.0471	0.05	mg/kg	94.2	90.0 - 110	126495184

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Arsenic, Total	1125744	2.80	2.24	2.50	80.0 - 120	112	89.6	mg/kg	22.2 *	20.0
Copper, Total	1125744	2.69	2.18	2.50	80.0 - 120	108	87.2	mg/kg	20.9 *	20.0
Lead, Total	1125744	2.70	2.56	2.50	80.0 - 120	108	102	mg/kg	5.32	20.0
Selenium, Total	1125744	2.70	2.16	2.50	80.0 - 120	108	86.4	mg/kg	22.2 *	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Arsenic, Total	2309996	13.2	13.7	0.0692	12.1	67.5 - 123	109	113	mg/kg	3.74	20.0
Copper, Total	2309996	15.6	16.2	2.48	12.1	40.4 - 145	108	113	mg/kg	4.47	20.0
Lead, Total	2309996	13.8	14.8	0.0546	12.1	78.8 - 123	114	122	mg/kg	7.02	20.0
Selenium, Total	2309996	12.9	13.4	0.121	12.1	63.9 - 122	106	110	mg/kg	3.84	20.0
Arsenic, Total	2310000	12.8	11.4	0.0642	12.1	67.5 - 123	105	93.7	mg/kg	11.6	20.0
Copper, Total	2310000	17.4	15.5	3.82	12.1	40.4 - 145	112	96.5	mg/kg	15.0	20.0
Lead, Total	2310000	14.1	13.0	0.149	12.1	78.8 - 123	115	106	mg/kg	8.21	20.0
Selenium, Total	2310000	12.6	11.3	0.160	12.1	63.9 - 122	103	92.1	mg/kg	11.0	20.0

Analytical Set 1126155 **EPA 6020A**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cadmium, Total	1125744	ND	0.00011	0.001	mg/kg	126500124
Chromium, Total	1125744	0.000612	0.000409	0.001	mg/kg	126500124
Molybdenum, Total	1125744	ND	0.000865	0.003	mg/kg	126500124
Nickel, Total	1125744	ND	0.000287	0.001	mg/kg	126500124
Zinc, Total	1125744	ND	0.00479	0.010	mg/kg	126500124

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0464	0.05	mg/kg	92.8	90.0 - 110	126500123
Cadmium, Total	0.0464	0.05	mg/kg	92.8	90.0 - 110	126500133
Cadmium, Total	0.0468	0.05	mg/kg	93.6	90.0 - 110	126500135
Chromium, Total	0.0495	0.05	mg/kg	99.0	90.0 - 110	126500123
Chromium, Total	0.048	0.05	mg/kg	96.0	90.0 - 110	126500133
Chromium, Total	0.0469	0.05	mg/kg	93.8	90.0 - 110	126500135
Molybdenum, Total	0.0473	0.05	mg/kg	94.6	90.0 - 110	126500123
Molybdenum, Total	0.0472	0.05	mg/kg	94.4	90.0 - 110	126500133
Molybdenum, Total	0.0462	0.05	mg/kg	92.4	90.0 - 110	126500135
Nickel, Total	0.0481	0.05	mg/kg	96.2	90.0 - 110	126500123
Nickel, Total	0.0479	0.05	mg/kg	95.8	90.0 - 110	126500133
Nickel, Total	0.0465	0.05	mg/kg	93.0	90.0 - 110	126500135
Zinc, Total	0.0477	0.05	mg/kg	95.4	90.0 - 110	126500123
Zinc, Total	0.0465	0.05	mg/kg	93.0	90.0 - 110	126500133
Zinc, Total	0.0461	0.05	mg/kg	92.2	90.0 - 110	126500135

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0477	0.05	mg/kg	95.4	90.0 - 110	126500118
Chromium, Total	0.0497	0.05	mg/kg	99.4	90.0 - 110	126500118
Molybdenum, Total	0.0478	0.05	mg/kg	95.6	90.0 - 110	126500118
Nickel, Total	0.0502	0.05	mg/kg	100	90.0 - 110	126500118
Zinc, Total	0.0493	0.05	mg/kg	98.6	90.0 - 110	126500118

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Cadmium, Total	1125744	1.25	1.21	1.25	80.0 - 120	100	96.8	mg/kg	3.25	20.0
Chromium, Total	1125744	2.68	2.55	2.50	80.0 - 120	107	102	mg/kg	4.97	20.0
Molybdenum, Total	1125744	2.54	2.49	2.50	80.0 - 120	102	99.6	mg/kg	1.99	20.0
Nickel, Total	1125744	2.59	2.51	2.50	80.0 - 120	104	100	mg/kg	3.14	20.0
Zinc, Total	1125744	2.47	2.41	2.50	80.0 - 120	98.8	96.4	mg/kg	2.46	20.0

LDR

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	9.73	10	mg/kg	97.3	90.0 - 110	126500120
Chromium, Total	9.51	10	mg/kg	95.1	90.0 - 110	126500120
Molybdenum, Total	9.33	10	mg/kg	93.3	90.0 - 110	126500120
Nickel, Total	9.67	10	mg/kg	96.7	90.0 - 110	126500120
Zinc, Total	9.79	10	mg/kg	97.9	90.0 - 110	126500120

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Cadmium, Total	2309996	6.17	6.29	0.00478	6.04	86.3 - 114	102	104	mg/kg	1.93	20.0
Chromium, Total	2309996	13.9	14.0	0.199	12.1	80.1 - 122	113	114	mg/kg	0.727	20.0
Molybdenum, Total	2309996	12.4	12.6	0.108	12.1	62.9 - 137	102	103	mg/kg	1.61	20.0
Nickel, Total	2309996	13.5	13.7	0.170	12.1	76.5 - 121	110	112	mg/kg	1.49	20.0

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Zinc, Total	2309996	22.9	22.9	10.4	12.1	28.6 - 157	103	103	mg/kg	0	20.0
Cadmium, Total	2310000	5.70	5.42	0.0053	6.04	86.3 - 114	94.1	89.5	mg/kg	5.04	20.0
Chromium, Total	2310000	12.7	12.2	0.247	12.1	80.1 - 122	103	98.8	mg/kg	4.10	20.0
Molybdenum, Total	2310000	11.4	10.9	0.107	12.1	62.9 - 137	93.3	89.2	mg/kg	4.53	20.0
Nickel, Total	2310000	12.5	11.9	0.208	12.1	76.5 - 121	102	96.6	mg/kg	5.00	20.0
Zinc, Total	2310000	27.6	29.1	17.5	12.1	28.6 - 157	83.5	95.9	mg/kg	13.8	20.0

Analytical Set 1126160 **EPA 6020A**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Molybdenum	1125777	0.000285	0.000155	0.001	mg/L	126500789
TCLP Selenium	1125777	ND	0.00294	0.005	mg/L	126500789
TCLP Zinc	1125777	ND	0.000844	0.001	mg/L	126500789

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Molybdenum	0.0475	0.05	mg/L	95.0	90.0 - 110	126500787
TCLP Molybdenum	0.0479	0.05	mg/L	95.8	90.0 - 110	126500797
TCLP Selenium	0.0486	0.05	mg/L	97.2	90.0 - 110	126500787
TCLP Selenium	0.0481	0.05	mg/L	96.2	90.0 - 110	126500797
TCLP Selenium	0.0473	0.05	mg/L	94.6	90.0 - 110	126500827
TCLP Selenium	0.0502	0.05	mg/L	100	90.0 - 110	126500834
TCLP Selenium	0.0471	0.05	mg/L	94.2	90.0 - 110	126500840
TCLP Zinc	0.0483	0.05	mg/L	96.6	90.0 - 110	126500787
TCLP Zinc	0.0478	0.05	mg/L	95.6	90.0 - 110	126500797

Dir. SPKD

Parameter	*Sample*	*DSPK*	*DSPKD*	*UNK*	*Known*	*Limits%*	*DSPK%*	*DSPKD%*	*Units*	*RPD*	*Limit%*
TCLP Molybdenum	2309430	4.76	4.79	0.00313	5.00	80.0 - 120	95.1	95.7	mg/L	0.628	20.0
TCLP Selenium	2309430	2.35	2.34	ND	2.50	80.0 - 120	94.0	93.6	mg/L	0.426	20.0
TCLP Zinc	2309430	2.46	2.47	0.302	2.50	80.0 - 120	86.3	86.7	mg/L	0.406	20.0

Direct SPK

Parameter	*Sample*	*DSPK*	*UNK*	*Known*	*Limits%*	*DSPK%*	*Units*	
TCLP Molybdenum	2309430	4.76	0.00313	5.00	80.0 - 120	95.1	mg/L	20.0
TCLP Selenium	2309430	2.35	ND	2.50	80.0 - 120	94.0	mg/L	20.0
TCLP Zinc	2309430	2.46	0.302	2.50	80.0 - 120	86.3	mg/L	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Molybdenum	0.0478	0.05	mg/L	95.6	90.0 - 110	126500732
TCLP Selenium	0.0505	0.05	mg/L	101	90.0 - 110	126500732
TCLP Zinc	0.0493	0.05	mg/L	98.6	90.0 - 110	126500732

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Molybdenum	1125777	0.934	0.949	1.00	88.4 - 131	93.4	94.9	mg/L	1.59	14.0
TCLP Selenium	1125777	0.443	0.462	0.500	83.5 - 121	88.6	92.4	mg/L	4.20	14.0
TCLP Zinc	1125777	0.466	0.477	0.500	80.6 - 112	93.2	95.4	mg/L	2.33	14.0

Analytical Set 1126346 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
TCLP Zinc	1125777	0.00308	0.000844	0.001	mg/L	*	126504828

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Zinc	0.0465	0.05	mg/L	93.0	90.0 - 110	126504825
TCLP Zinc	0.0476	0.05	mg/L	95.2	90.0 - 110	126504827
TCLP Zinc	0.0472	0.05	mg/L	94.4	90.0 - 110	126504836

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Zinc	0.0497	0.05	mg/L	99.4	90.0 - 110	126504798

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Zinc	1125777	0.461	0.455	0.500	80.6 - 112	92.2	91.0	mg/L	1.31	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Zinc	2309430	3.13	2.89	0.351	2.50	67.8 - 117	111	102	mg/L	9.03	20.0

Analytical Set 1126538 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Molybdenum	1125777	0.000488	0.000155	0.001	mg/L	126508277
TCLP Selenium	1125777	ND	0.00294	0.005	mg/L	126508277

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Molybdenum	0.0485	0.05	mg/L	97.0	90.0 - 110	126508276
TCLP Molybdenum	0.048	0.05	mg/L	96.0	90.0 - 110	126508286
TCLP Selenium	0.051	0.05	mg/L	102	90.0 - 110	126508276
TCLP Selenium	0.0499	0.05	mg/L	99.8	90.0 - 110	126508286

Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
TCLP Molybdenum	2309430	53.3	57.9	0.0162	50.0	80.0 - 120	107	116	mg/L	8.27	20.0
TCLP Selenium	2309430	26.1	29.1	0.222	25.0	80.0 - 120	104	116	mg/L	10.9	20.0

Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units

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Direct SPK

Parameter	*Sample*	*DSPK*	*UNK*	*Known*	*Limits%*	*DSPK%*	*Units*	
TCLP Molybdenum	2309430	53.3	0.0162	50.0	80.0 - 120	107	mg/L	20.0
TCLP Selenium	2309430	26.1	0.222	25.0	80.0 - 120	104	mg/L	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Molybdenum	0.0496	0.05	mg/L	99.2	90.0 - 110	126508271
TCLP Selenium	0.0478	0.05	mg/L	95.6	90.0 - 110	126508271

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Molybdenum	1125777	1.02	1.04	1.00	88.4 - 131	102	104	mg/L	1.94	14.0
TCLP Selenium	1125777	0.503	0.520	0.500	83.5 - 121	101	104	mg/L	3.32	14.0

LDR

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Molybdenum	9.42	10	mg/L	94.2	90.0 - 110	126508273
TCLP Selenium	9.24	10	mg/L	92.4	90.0 - 110	126508273

Analytical Set **1125705** **EPA 8260B**

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1125705	174	174	1.2	0 - 2.00	126490049
BFB Mass 174	1125705	95.0	14966	61.6	50.0 - 100	126490049
BFB Mass 175	1125705	174	1218	8.1	5.00 - 9.00	126490049
BFB Mass 176	1125705	174	14657	97.9	95.0 - 101	126490049
BFB Mass 177	1125705	176	938	6.4	5.00 - 9.00	126490049
BFB Mass 50	1125705	95.0	5030	20.7	15.0 - 40.0	126490049
BFB Mass 75	1125705	95.0	12407	51.1	30.0 - 60.0	126490049
BFB Mass 95	1125705	95.0	24280	100.0	100 - 100	126490049
BFB Mass 96	1125705	95.0	1607	6.6	5.00 - 9.00	126490049

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 1,1-Dichloroethene	1125705	ND	0.000574	0.001	mg/L	126490053
TCLP 1,1-Dichloroethene	1125705	ND	0.000574	0.001	mg/L	126490054
TCLP 1,2-Dichloroethane	1125705	ND	0.00059	0.001	mg/L	126490053
TCLP 1,2-Dichloroethane	1125705	ND	0.00059	0.001	mg/L	126490054
TCLP 1,4 Dichlorobenzene	1125705	ND	0.000837	0.001	mg/L	126490053
TCLP 1,4 Dichlorobenzene	1125705	ND	0.000837	0.001	mg/L	126490054
TCLP Benzene	1125705	ND	0.000453	0.001	mg/L	126490053
TCLP Benzene	1125705	ND	0.000453	0.001	mg/L	126490054
TCLP Carbon tetrachloride	1125705	ND	0.000299	0.001	mg/L	126490053
TCLP Carbon tetrachloride	1125705	ND	0.000299	0.001	mg/L	126490054
TCLP Chlorobenzene	1125705	ND	0.000558	0.001	mg/L	126490053
TCLP Chlorobenzene	1125705	ND	0.000558	0.001	mg/L	126490054
TCLP Chloroform	1125705	ND	0.000463	0.001	mg/L	126490053

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Chloroform	1125705	ND	0.000463	0.001	mg/L	126490054
TCLP MEK	1125705	ND	0.000742	0.001	mg/L	126490053
TCLP MEK	1125705	ND	0.000742	0.001	mg/L	126490054
TCLP Tetrachloroethylene	1125705	ND	0.000607	0.001	mg/L	126490053
TCLP Tetrachloroethylene	1125705	ND	0.000607	0.001	mg/L	126490054
TCLP Trichloroethylene	1125705	ND	0.000521	0.001	mg/L	126490053
TCLP Trichloroethylene	1125705	ND	0.000521	0.001	mg/L	126490054
TCLP Vinyl chloride	1125705	ND	0.000702	0.001	mg/L	126490053
TCLP Vinyl chloride	1125705	ND	0.000702	0.001	mg/L	126490054

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 1,1-Dichloroethene	0.0185	0.020	mg/L	92.5	70.0 - 130	126490052
TCLP 1,2-Dichloroethane	0.0176	0.020	mg/L	88.0	70.0 - 130	126490052
TCLP 1,4 Dichlorobenzene	0.0191	0.020	mg/L	95.5	70.0 - 130	126490052
TCLP Benzene	0.0181	0.020	mg/L	90.5	70.0 - 130	126490052
TCLP Carbon tetrachloride	0.0179	0.020	mg/L	89.5	70.0 - 130	126490052
TCLP Chlorobenzene	0.018	0.020	mg/L	90.0	70.0 - 130	126490052
TCLP Chloroform	0.0177	0.020	mg/L	88.5	70.0 - 130	126490052
TCLP MEK	0.0171	0.020	mg/L	85.5	70.0 - 130	126490052
TCLP Tetrachloroethylene	0.019	0.020	mg/L	95.0	70.0 - 130	126490052
TCLP Trichloroethylene	0.0176	0.020	mg/L	88.0	70.0 - 130	126490052
TCLP Vinyl chloride	0.0157	0.020	mg/L	78.5	70.0 - 130	126490052

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1125705	LCS	126600	123600	86540	160700	126490050	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	LCS Dup	124800	123600	86540	160700	126490051	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	CCV	123600	123600	86540	160700	126490052	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	Blank	115300	123600	86540	160700	126490053	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	Blank	97940	123600	86540	160700	126490054	1125705
ChlorobenzeneD5 (ISTD)	1125705	LCS	270300	262200	183500	340900	126490050	1125705
ChlorobenzeneD5 (ISTD)	1125705	LCS Dup	261400	262200	183500	340900	126490051	1125705
ChlorobenzeneD5 (ISTD)	1125705	CCV	262200	262200	183500	340900	126490052	1125705
ChlorobenzeneD5 (ISTD)	1125705	Blank	256200	262200	183500	340900	126490053	1125705
ChlorobenzeneD5 (ISTD)	1125705	Blank	210300	262200	183500	340900	126490054	1125705
1,4-DichlorobenzeneD4 (ISTD)	2310000	MS	106500	123600	86540	160700	126490059	1125429
1,4-DichlorobenzeneD4 (ISTD)	2310000	MSD	101700	123600	86540	160700	126490060	1125429
ChlorobenzeneD5 (ISTD)	2310000	MS	208900	262200	183500	340900	126490059	1125429
ChlorobenzeneD5 (ISTD)	2310000	MSD	200000	262200	183500	340900	126490060	1125429

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1125705	LCS	11.97	11.97	11.91	12.03	126490050	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	LCS Dup	11.97	11.97	11.91	12.03	126490051	1125705
1,4-DichlorobenzeneD4 (ISTD)	1125705	Blank	11.97	11.97	11.91	12.03	126490053	1125705

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IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1125705	Blank	11.97	11.97	11.91	12.03	126490054	1125705
ChlorobenzeneD5 (ISTD)	1125705	LCS	9.597	9.597	9.537	9.657	126490050	1125705
ChlorobenzeneD5 (ISTD)	1125705	LCS Dup	9.597	9.597	9.537	9.657	126490051	1125705
ChlorobenzeneD5 (ISTD)	1125705	Blank	9.597	9.597	9.537	9.657	126490053	1125705
ChlorobenzeneD5 (ISTD)	1125705	Blank	9.597	9.597	9.537	9.657	126490054	1125705
1,4-DichlorobenzeneD4 (ISTD)	2310000	MS	11.97	11.97	11.91	12.03	126490059	1125429
1,4-DichlorobenzeneD4 (ISTD)	2310000	MSD	11.97	11.97	11.91	12.03	126490060	1125429
ChlorobenzeneD5 (ISTD)	2310000	MS	9.597	9.597	9.537	9.657	126490059	1125429
ChlorobenzeneD5 (ISTD)	2310000	MSD	9.597	9.597	9.537	9.657	126490060	1125429

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1125705	0.0215	0.0217	0.020	56.7 - 135	108	108	mg/L	0	30.0
TCLP 1,2-Dichloroethane	1125705	0.0185	0.0184	0.020	69.8 - 132	92.5	92.0	mg/L	0.542	30.0
TCLP 1,4 Dichlorobenzene	1125705	0.021	0.0197	0.020	74.8 - 116	105	98.5	mg/L	6.39	30.0
TCLP Benzene	1125705	0.0199	0.0197	0.020	67.1 - 123	99.5	98.5	mg/L	1.01	30.0
TCLP Carbon tetrachloride	1125705	0.0207	0.0207	0.020	60.1 - 132	104	104	mg/L	0	30.0
TCLP Chlorobenzene	1125705	0.020	0.0198	0.020	74.0 - 115	100	99.0	mg/L	1.01	30.0
TCLP Chloroform	1125705	0.0195	0.0196	0.020	71.1 - 128	97.5	98.0	mg/L	0.512	30.0
TCLP MEK	1125705	0.0185	0.0174	0.020	40.7 - 166	92.5	87.0	mg/L	6.13	30.0
TCLP Tetrachloroethylene	1125705	0.0216	0.022	0.020	71.2 - 126	108	110	mg/L	1.83	30.0
TCLP Trichloroethylene	1125705	0.020	0.0196	0.020	71.4 - 126	100	98.0	mg/L	2.02	30.0
TCLP Vinyl chloride	1125705	0.0171	0.0169	0.020	18.5 - 155	85.5	84.5	mg/L	1.18	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	2310000	0.204	0.204	ND	0.200	0.100 - 168	102	102	mg/L	0	30.0
TCLP 1,2-Dichloroethane	2310000	0.175	0.177	ND	0.200	48.4 - 134	87.5	88.5	mg/L	1.14	30.0
TCLP 1,4 Dichlorobenzene	2310000	0.179	0.188	ND	0.200	45.4 - 121	89.5	94.0	mg/L	4.90	30.0
TCLP Benzene	2310000	0.186	0.191	ND	0.200	5.00 - 119	93.0	95.5	mg/L	2.65	30.0
TCLP Carbon tetrachloride	2310000	0.188	0.200	ND	0.200	0.100 - 164	94.0	100	mg/L	6.19	30.0
TCLP Chlorobenzene	2310000	0.180	0.191	ND	0.200	32.5 - 130	90.0	95.5	mg/L	5.93	30.0
TCLP Chloroform	2310000	0.178	0.191	ND	0.200	22.1 - 141	89.0	95.5	mg/L	7.05	30.0
TCLP MEK	2310000	0.188	0.191	ND	0.200	9.88 - 197	94.0	95.5	mg/L	1.58	30.0
TCLP Tetrachloroethylene	2310000	0.193	0.204	ND	0.200	0.100 - 157	96.5	102	mg/L	5.54	30.0
TCLP Trichloroethylene	2310000	0.180	0.192	ND	0.200	0.100 - 161	90.0	96.0	mg/L	6.45	30.0
TCLP Vinyl chloride	2310000	0.156	0.164	ND	0.200	0.100 - 197	78.0	82.0	mg/L	5.00	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1125705	LCS	0.0178	0.020	mg/L	89.0	74.2 - 132	126490050
1,2-DCA-d4 (SURR)	1125705	LCS Dup	0.018	0.020	mg/L	90.0	74.2 - 132	126490051
1,2-DCA-d4 (SURR)	1125705	CCV	0.0181	0.020	mg/L	90.5	74.2 - 132	126490052
1,2-DCA-d4 (SURR)	1125705	Blank	0.0186	0.020	mg/L	93.0	74.2 - 132	126490053
1,2-DCA-d4 (SURR)	1125705	Blank	0.0181	0.020	mg/L	90.5	74.2 - 132	126490054
Bromofluorobenzene (SURR)	1125705	LCS	0.0199	0.020	mg/L	99.5	77.2 - 134	126490050

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Bromofluorobenzene (SURR)	1125705	LCS Dup	0.0202	0.020	mg/L	101	77.2 - 134	126490051
Bromofluorobenzene (SURR)	1125705	CCV	0.0197	0.020	mg/L	98.5	77.2 - 134	126490052
Bromofluorobenzene (SURR)	1125705	Blank	0.0201	0.020	mg/L	100	77.2 - 134	126490053
Bromofluorobenzene (SURR)	1125705	Blank	0.0196	0.020	mg/L	98.0	77.2 - 134	126490054
Dibromofluoromethane (SURR)	1125705	LCS	0.0187	0.020	mg/L	93.5	67.2 - 122	126490050
Dibromofluoromethane (SURR)	1125705	LCS Dup	0.0192	0.020	mg/L	96.0	67.2 - 122	126490051
Dibromofluoromethane (SURR)	1125705	CCV	0.019	0.020	mg/L	95.0	67.2 - 122	126490052
Dibromofluoromethane (SURR)	1125705	Blank	0.0191	0.020	mg/L	95.5	67.2 - 122	126490053
Dibromofluoromethane (SURR)	1125705	Blank	0.0185	0.020	mg/L	92.5	67.2 - 122	126490054
TolueneD8 (SURR)	1125705	LCS	0.0191	0.020	mg/L	95.5	69.2 - 122	126490050
TolueneD8 (SURR)	1125705	LCS Dup	0.0193	0.020	mg/L	96.5	69.2 - 122	126490051
TolueneD8 (SURR)	1125705	CCV	0.0192	0.020	mg/L	96.0	69.2 - 122	126490052
TolueneD8 (SURR)	1125705	Blank	0.0194	0.020	mg/L	97.0	69.2 - 122	126490053
TolueneD8 (SURR)	1125705	Blank	0.019	0.020	mg/L	95.0	69.2 - 122	126490054
1,2-DCA-d4 (SURR)	2309996	Unknown	0.0183	0.020	mg/L	91.5	74.2 - 132	126490057
Bromofluorobenzene (SURR)	2309996	Unknown	0.019	0.020	mg/L	95.0	77.2 - 134	126490057
Dibromofluoromethane (SURR)	2309996	Unknown	0.0191	0.020	mg/L	95.5	67.2 - 122	126490057
TolueneD8 (SURR)	2309996	Unknown	0.0187	0.020	mg/L	93.5	69.2 - 122	126490057
1,2-DCA-d4 (SURR)	2310000	Unknown	0.0187	0.020	mg/L	93.5	74.2 - 132	126490058
1,2-DCA-d4 (SURR)	2310000	MS	0.0191	0.020	mg/L	95.5	74.2 - 132	126490059
1,2-DCA-d4 (SURR)	2310000	MSD	0.0182	0.020	mg/L	91.0	74.2 - 132	126490060
Bromofluorobenzene (SURR)	2310000	Unknown	0.0196	0.020	mg/L	98.0	77.2 - 134	126490058
Bromofluorobenzene (SURR)	2310000	MS	0.0186	0.020	mg/L	93.0	77.2 - 134	126490059
Bromofluorobenzene (SURR)	2310000	MSD	0.0188	0.020	mg/L	94.0	77.2 - 134	126490060
Dibromofluoromethane (SURR)	2310000	Unknown	0.0185	0.020	mg/L	92.5	67.2 - 122	126490058
Dibromofluoromethane (SURR)	2310000	MS	0.0196	0.020	mg/L	98.0	67.2 - 122	126490059
Dibromofluoromethane (SURR)	2310000	MSD	0.0186	0.020	mg/L	93.0	67.2 - 122	126490060
TolueneD8 (SURR)	2310000	Unknown	0.0188	0.020	mg/L	94.0	69.2 - 122	126490058
TolueneD8 (SURR)	2310000	MS	0.019	0.020	mg/L	95.0	69.2 - 122	126490059
TolueneD8 (SURR)	2310000	MSD	0.0186	0.020	mg/L	93.0	69.2 - 122	126490060
1,2-DCA-d4 (SURR)	2310001	Unknown	0.0187	0.020	mg/L	93.5	74.2 - 132	126490056
Bromofluorobenzene (SURR)	2310001	Unknown	0.0198	0.020	mg/L	99.0	77.2 - 134	126490056
Dibromofluoromethane (SURR)	2310001	Unknown	0.0188	0.020	mg/L	94.0	67.2 - 122	126490056
TolueneD8 (SURR)	2310001	Unknown	0.0187	0.020	mg/L	93.5	69.2 - 122	126490056

Analytical Set **1126411** **EPA 8151**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 2,4 D	1125427	ND	0.000159	0.0005	mg/L	126506303
TCLP 2,4,5-TP (Silvex)	1125427	ND	0.0000893	0.0003	mg/L	126506303
TCLP 2,4 D	1126055	ND	0.000159	0.0005	mg/L	126506296
TCLP 2,4,5-TP (Silvex)	1126055	ND	0.0000893	0.0003	mg/L	126506296

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4 D	0.156	0.150	mg/L	104	70.0 - 130	126506295
TCLP 2,4 D	0.162	0.150	mg/L	108	70.0 - 130	126506309
TCLP 2,4,5-TP (Silvex)	0.156	0.150	mg/L	104	70.0 - 130	126506295
TCLP 2,4,5-TP (Silvex)	0.167	0.150	mg/L	111	70.0 - 130	126506309

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4 D	1126055	0.001	0.00123	0.001	2.06 - 194	100	123	mg/L	20.6	30.0
TCLP 2,4,5-TP (Silvex)	1126055	0.00102	0.00126	0.001	19.3 - 162	102	126	mg/L	21.1	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4 D	2309177	0.928	0	ND	1.00	0.100 - 228	92.8		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2309177	0.959	0	0.00526	1.00	2.02 - 165	95.4		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4-Dichlorophenylacetic Acid		CCV	0.163	0.200	mg/L	81.5	0.100 - 294	126506295
2,4-Dichlorophenylacetic Acid		CCV	0.171	0.200	mg/L	85.5	0.100 - 294	126506309
2,4-Dichlorophenylacetic Acid	1125427	Blank	0.137	0.200	mg/L	68.5	0.100 - 294	126506303
2,4-Dichlorophenylacetic Acid	1126055	Blank	0.137	0.200	mg/L	68.5	0.100 - 294	126506296
2,4-Dichlorophenylacetic Acid	1126055	LCS	0.0919	0.200	mg/L	46.0	0.100 - 294	126506297
2,4-Dichlorophenylacetic Acid	1126055	LCS Dup	0.115	0.200	mg/L	57.5	0.100 - 294	126506298
2,4-Dichlorophenylacetic Acid	2309177	MS	0.930	2.00	mg/L	46.5	0.100 - 294	126506301
2,4-Dichlorophenylacetic Acid	2309996	Unknown	0.930	2.00	mg/L	46.5	0.100 - 294	126506305
2,4-Dichlorophenylacetic Acid	2310000	Unknown	1.15	2.00	mg/L	57.5	0.100 - 294	126506306
2,4-Dichlorophenylacetic Acid	2310001	Unknown	0.991	2.00	mg/L	49.6	0.100 - 294	126506307

Analytical Set **1126681** **EPA 8270C**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 2,4,5-Trichlorophenol	1125427	ND	0.000961	0.005	mg/L	126511624
TCLP 2,4,6-Trichlorophenol	1125427	ND	0.00124	0.002	mg/L	126511624
TCLP 2,4-Dinitrotoluene	1125427	ND	0.00135	0.002	mg/L	126511624
TCLP 2-Methylphenol (o-Cresol)	1125427	ND	0.00848	0.010	mg/L	126511624
TCLP 3&4-Methylphenol (m&p-Creso	1125427	ND	0.00778	0.008	mg/L	126511624
TCLP Hexachlorobenzene	1125427	ND	0.000871	0.001	mg/L	126511624
TCLP Hexachlorobutadiene	1125427	ND	0.00103	0.00103	mg/L	126511624
TCLP Hexachloroethane	1125427	ND	0.00105	0.002	mg/L	126511624
TCLP Nitrobenzene	1125427	ND	0.000271	0.001	mg/L	126511624
TCLP Pentachlorophenol	1125427	ND	0.00096	0.005	mg/L	126511624
TCLP Pyridine (Reg. Limit 5)	1125427	ND	0.00135	0.00135	mg/L	126511624
TCLP 2,4,5-Trichlorophenol	1125879	ND	0.000961	0.005	mg/L	126511621
TCLP 2,4,6-Trichlorophenol	1125879	ND	0.00124	0.002	mg/L	126511621
TCLP 2,4-Dinitrotoluene	1125879	ND	0.00135	0.002	mg/L	126511621
TCLP 2-Methylphenol (o-Cresol)	1125879	ND	0.00848	0.010	mg/L	126511621

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 3&4-Methylphenol (m&p-Creso	1125879	ND	0.00778	0.008	mg/L	126511621
TCLP Hexachlorobenzene	1125879	ND	0.000871	0.001	mg/L	126511621
TCLP Hexachlorobutadiene	1125879	ND	0.00103	0.00103	mg/L	126511621
TCLP Hexachloroethane	1125879	ND	0.00105	0.002	mg/L	126511621
TCLP Nitrobenzene	1125879	ND	0.000271	0.001	mg/L	126511621
TCLP Pentachlorophenol	1125879	ND	0.00096	0.005	mg/L	126511621
TCLP Pyridine (Reg. Limit 5)	1125879	ND	0.00135	0.00135	mg/L	126511621

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	52.7	50.0	mg/L	105	70.0 - 130	126511620
TCLP 2,4,6-Trichlorophenol	48.7	50.0	mg/L	97.4	70.0 - 130	126511620
TCLP 2,4-Dinitrotoluene	42.0	50.0	mg/L	83.9	70.0 - 130	126511620
TCLP 2-Methylphenol (o-Cresol)	49.0	50.0	mg/L	98.0	70.0 - 130	126511620
TCLP 3&4-Methylphenol (m&p-Creso	47.9	50.0	mg/L	95.8	70.0 - 130	126511620
TCLP Hexachlorobenzene	45.2	50.0	mg/L	90.3	70.0 - 130	126511620
TCLP Hexachlorobutadiene	41.8	50.0	mg/L	83.6	70.0 - 130	126511620
TCLP Hexachloroethane	45.4	50.0	mg/L	90.9	70.0 - 130	126511620
TCLP Nitrobenzene	49.7	50.0	mg/L	99.4	70.0 - 130	126511620
TCLP Pentachlorophenol	47.3	50.0	mg/L	94.5	70.0 - 130	126511620
TCLP Pyridine (Reg. Limit 5)	64.2	50.0	mg/L	128	70.0 - 130	126511620

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	625285	198	144960	55.7	40.0 - 60.0	126511619
DFTPP Mass 197	625285	198	0	0.0	0 - 1.00	126511619
DFTPP Mass 198	625285	198	260181	100.0	100 - 100	126511619
DFTPP Mass 199	625285	198	17896	6.9	5.00 - 9.00	126511619
DFTPP Mass 275	625285	198	71597	27.5	10.0 - 30.0	126511619
DFTPP Mass 365	625285	198	13846	5.3	1.00 - 100	126511619
DFTPP Mass 441	625285	443	20359	52.8	0 - 100	126511619
DFTPP Mass 442	625285	198	205845	79.1	40.0 - 100	126511619
DFTPP Mass 443	625285	442	38564	18.7	17.0 - 23.0	126511619
DFTPP Mass 51	625285	198	83120	31.9	30.0 - 60.0	126511619
DFTPP Mass 68	625285	69.0	0	0.0	0 - 2.00	126511619
DFTPP Mass 69	625285	198	93819	36.1	0 - 100	126511619
DFTPP Mass 70	625285	69.0	528	0.6	0 - 2.00	126511619

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	625311	CCV	297800	297800	148900	446600	126511620	625311
Acenaphthene-d10-ISTD	625311	CCV	605900	605900	303000	908900	126511620	625311
Naphthalene-d8-ISTD	625311	CCV	989500	989500	494800	1484000	126511620	625311
Phenanthrene-d10-ISTD	625311	CCV	961200	961200	480600	1442000	126511620	625311
1,4-Dichlorobenzene-d4-ISTD	1125427	Blank	278500	297800	148900	446600	126511624	1125427
Acenaphthene-d10-ISTD	1125427	Blank	571400	605900	303000	908900	126511624	1125427

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IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
Naphthalene-d8-ISTD	1125427	Blank	1050000	989500	494800	1484000	126511624	1125427
Phenanthrene-d10-ISTD	1125427	Blank	872300	961200	480600	1442000	126511624	1125427
1,4-Dichlorobenzene-d4-ISTD	1125879	Blank	334900	297800	148900	446600	126511621	1125879
1,4-Dichlorobenzene-d4-ISTD	1125879	LCS	285500	297800	148900	446600	126511622	1125879
1,4-Dichlorobenzene-d4-ISTD	1125879	LCS Dup	263300	297800	148900	446600	126511623	1125879
Acenaphthene-d10-ISTD	1125879	Blank	650000	605900	303000	908900	126511621	1125879
Acenaphthene-d10-ISTD	1125879	LCS	562500	605900	303000	908900	126511622	1125879
Acenaphthene-d10-ISTD	1125879	LCS Dup	516800	605900	303000	908900	126511623	1125879
Naphthalene-d8-ISTD	1125879	Blank	1237000	989500	494800	1484000	126511621	1125879
Naphthalene-d8-ISTD	1125879	LCS	1058000	989500	494800	1484000	126511622	1125879
Naphthalene-d8-ISTD	1125879	LCS Dup	994000	989500	494800	1484000	126511623	1125879
Phenanthrene-d10-ISTD	1125879	Blank	1019000	961200	480600	1442000	126511621	1125879
Phenanthrene-d10-ISTD	1125879	LCS	838800	961200	480600	1442000	126511622	1125879
Phenanthrene-d10-ISTD	1125879	LCS Dup	801200	961200	480600	1442000	126511623	1125879
1,4-Dichlorobenzene-d4-ISTD	2309897	MS	277700	297800	148900	446600	126511627	1125879
Acenaphthene-d10-ISTD	2309897	MS	531300	605900	303000	908900	126511627	1125879
Naphthalene-d8-ISTD	2309897	MS	1014000	989500	494800	1484000	126511627	1125879
Phenanthrene-d10-ISTD	2309897	MS	753800	961200	480600	1442000	126511627	1125879
1,4-Dichlorobenzene-d4-ISTD	2309996	Unknown	281900	297800	148900	446600	126511628	1125879
Acenaphthene-d10-ISTD	2309996	Unknown	566100	605900	303000	908900	126511628	1125879
Naphthalene-d8-ISTD	2309996	Unknown	1080000	989500	494800	1484000	126511628	1125879
Phenanthrene-d10-ISTD	2309996	Unknown	827500	961200	480600	1442000	126511628	1125879
1,4-Dichlorobenzene-d4-ISTD	2310000	Unknown	293600	297800	148900	446600	126511629	1125879
Acenaphthene-d10-ISTD	2310000	Unknown	595100	605900	303000	908900	126511629	1125879
Naphthalene-d8-ISTD	2310000	Unknown	1103000	989500	494800	1484000	126511629	1125879
Phenanthrene-d10-ISTD	2310000	Unknown	935000	961200	480600	1442000	126511629	1125879
1,4-Dichlorobenzene-d4-ISTD	2310001	Unknown	373100	297800	148900	446600	126511630	1125879
Acenaphthene-d10-ISTD	2310001	Unknown	750800	605900	303000	908900	126511630	1125879
Naphthalene-d8-ISTD	2310001	Unknown	1412000	989500	494800	1484000	126511630	1125879
Phenanthrene-d10-ISTD	2310001	Unknown	1054000	961200	480600	1442000	126511630	1125879

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	625311	CCV	4.635	4.635	4.575	4.695	126511620	625311
Acenaphthene-d10-ISTD	625311	CCV	7.106	7.106	7.046	7.166	126511620	625311
Naphthalene-d8-ISTD	625311	CCV	5.661	5.661	5.601	5.721	126511620	625311
Phenanthrene-d10-ISTD	625311	CCV	8.338	8.338	8.278	8.398	126511620	625311
1,4-Dichlorobenzene-d4-ISTD	1125427	Blank	4.641	4.635	4.575	4.695	126511624	1125427
Acenaphthene-d10-ISTD	1125427	Blank	7.106	7.106	7.046	7.166	126511624	1125427
Naphthalene-d8-ISTD	1125427	Blank	5.667	5.661	5.601	5.721	126511624	1125427
Phenanthrene-d10-ISTD	1125427	Blank	8.344	8.338	8.278	8.398	126511624	1125427
1,4-Dichlorobenzene-d4-ISTD	1125879	Blank	4.629	4.635	4.575	4.695	126511621	1125879
1,4-Dichlorobenzene-d4-ISTD	1125879	LCS	4.647	4.635	4.575	4.695	126511622	1125879
1,4-Dichlorobenzene-d4-ISTD	1125879	LCS Dup	4.635	4.635	4.575	4.695	126511623	1125879
Acenaphthene-d10-ISTD	1125879	Blank	7.100	7.106	7.046	7.166	126511621	1125879

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GBRA Buda
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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	1125879	LCS	7.112	7.106	7.046	7.166	126511622	1125879
Acenaphthene-d10-ISTD	1125879	LCS Dup	7.112	7.106	7.046	7.166	126511623	1125879
Naphthalene-d8-ISTD	1125879	Blank	5.655	5.661	5.601	5.721	126511621	1125879
Naphthalene-d8-ISTD	1125879	LCS	5.673	5.661	5.601	5.721	126511622	1125879
Naphthalene-d8-ISTD	1125879	LCS Dup	5.667	5.661	5.601	5.721	126511623	1125879
Phenanthrene-d10-ISTD	1125879	Blank	8.332	8.338	8.278	8.398	126511621	1125879
Phenanthrene-d10-ISTD	1125879	LCS	8.344	8.338	8.278	8.398	126511622	1125879
Phenanthrene-d10-ISTD	1125879	LCS Dup	8.344	8.338	8.278	8.398	126511623	1125879
1,4-Dichlorobenzene-d4-ISTD	2309897	MS	4.635	4.635	4.575	4.695	126511627	1125879
Acenaphthene-d10-ISTD	2309897	MS	7.100	7.106	7.046	7.166	126511627	1125879
Naphthalene-d8-ISTD	2309897	MS	5.661	5.661	5.601	5.721	126511627	1125879
Phenanthrene-d10-ISTD	2309897	MS	8.332	8.338	8.278	8.398	126511627	1125879
1,4-Dichlorobenzene-d4-ISTD	2309996	Unknown	4.629	4.635	4.575	4.695	126511628	1125879
Acenaphthene-d10-ISTD	2309996	Unknown	7.100	7.106	7.046	7.166	126511628	1125879
Naphthalene-d8-ISTD	2309996	Unknown	5.655	5.661	5.601	5.721	126511628	1125879
Phenanthrene-d10-ISTD	2309996	Unknown	8.332	8.338	8.278	8.398	126511628	1125879
1,4-Dichlorobenzene-d4-ISTD	2310000	Unknown	4.629	4.635	4.575	4.695	126511629	1125879
Acenaphthene-d10-ISTD	2310000	Unknown	7.100	7.106	7.046	7.166	126511629	1125879
Naphthalene-d8-ISTD	2310000	Unknown	5.655	5.661	5.601	5.721	126511629	1125879
Phenanthrene-d10-ISTD	2310000	Unknown	8.326	8.338	8.278	8.398	126511629	1125879
1,4-Dichlorobenzene-d4-ISTD	2310001	Unknown	4.629	4.635	4.575	4.695	126511630	1125879
Acenaphthene-d10-ISTD	2310001	Unknown	7.100	7.106	7.046	7.166	126511630	1125879
Naphthalene-d8-ISTD	2310001	Unknown	5.655	5.661	5.601	5.721	126511630	1125879
Phenanthrene-d10-ISTD	2310001	Unknown	8.332	8.338	8.278	8.398	126511630	1125879

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1125879	0.00755	0.0118	0.0125	39.3 - 111	60.4	94.4	mg/L	43.9 *	30.0
TCLP 2,4,6-Trichlorophenol	1125879	0.00756	0.0111	0.0125	38.2 - 109	60.5	88.8	mg/L	37.9 *	30.0
TCLP 2,4-Dinitrotoluene	1125879	0.00668	0.0105	0.0125	36.3 - 132	53.4	84.0	mg/L	44.5 *	30.0
TCLP 2-Methylphenol (o-Cresol)	1125879	0.0074	0.00909	0.0125	23.0 - 87.8	59.2	72.7	mg/L	20.5	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1125879	0.00661	0.00833	0.0125	14.9 - 92.5	52.9	66.6	mg/L	22.9	30.0
TCLP Hexachlorobenzene	1125879	0.00664	0.00917	0.0125	44.4 - 117	53.1	73.4	mg/L	32.1 *	30.0
TCLP Hexachlorobutadiene	1125879	0.00465	0.00602	0.0125	17.2 - 88.9	37.2	48.2	mg/L	25.8	30.0
TCLP Hexachloroethane	1125879	0.00522	0.00706	0.0125	14.6 - 88.8	41.8	56.5	mg/L	29.9	30.0
TCLP Nitrobenzene	1125879	0.00744	0.0105	0.0125	34.3 - 113	59.5	84.0	mg/L	34.1 *	30.0
TCLP Pentachlorophenol	1125879	0.00722	0.00956	0.0125	15.7 - 129	57.8	76.5	mg/L	27.8	30.0
TCLP Pyridine (Reg. Limit 5)	1125879	0.00448	0.00892	0.0125	0.0753 - 83.4	35.8	71.4	mg/L	66.4 *	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2309897	0.118	0	0.0018	0.125	33.7 - 116	94.4		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2309897	0.115	0	0.0018	0.125	20.1 - 131	92.0		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2309897	0.100	0	0.0018	0.125	31.8 - 135	80.0		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2309897	0.0869	0	ND	0.125	10.6 - 106	69.5		mg/L		30.0

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QUALITY CONTROL

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MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 3&4-Methylphenol (m&p-Creso	2309897	0.0778	0	ND	0.125	0.100 - 149	62.2		mg/L		30.0
TCLP Hexachlorobenzene	2309897	0.096	0	0.0018	0.125	35.9 - 125	75.4		mg/L		30.0
TCLP Hexachlorobutadiene	2309897	0.0611	0	0.0018	0.125	11.1 - 88.5	47.4		mg/L		30.0
TCLP Hexachloroethane	2309897	0.0717	0	0.0018	0.125	8.41 - 88.1	57.4		mg/L		30.0
TCLP Nitrobenzene	2309897	0.110	0	0.0018	0.125	28.7 - 119	86.6		mg/L		30.0
TCLP Pentachlorophenol	2309897	0.104	0	0.0018	0.125	8.33 - 141	83.2		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2309897	0.072	0	0.0018	0.125	0.100 - 97.2	56.2		mg/L		30.0

SPCC

Parameter	*Sample*	*RF*	*Minimum*	*File*
TCLP 2,4-Dinitrophenol	625311	52.2	0.050	126511620
TCLP 4-Nitrophenol	625311	52.7	0.050	126511620
TCLP Hexachlorocyclopentadiene	625311	50.2	0.050	126511620
TCLP N-Nitroso-n-propylamine	625311	48.4	0.050	126511620

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	625311	CCV	45.1	100	mg/L	45.1	9.79 - 123	126511620
2-Fluorobiphenyl-SURR	625311	CCV	47.5	50.0	mg/L	95.0	0.100 - 131	126511620
2-Fluorophenol-SURR	625311	CCV	59.0	100	mg/L	59.0	5.36 - 80.2	126511620
4-Terphenyl-d14-SURR	625311	CCV	50.7	50.0	mg/L	101	0.100 - 137	126511620
Nitrobenzene-d5-SURR	625311	CCV	53.2	50.0	mg/L	106	0.100 - 131	126511620
Phenol-d6-SURR	625311	CCV	48.8	100	mg/L	48.8	0.100 - 66.5	126511620
2,4,6-Tribromophenol	1125427	Blank	2.02	3.33	mg/L	60.7	9.79 - 123	126511624
2-Fluorobiphenyl-SURR	1125427	Blank	33.8	50.0	mg/L	67.6	0.100 - 131	126511624
2-Fluorophenol-SURR	1125427	Blank	44.5	100	mg/L	44.5	5.36 - 80.2	126511624
4-Terphenyl-d14-SURR	1125427	Blank	38.6	50.0	mg/L	77.2	0.100 - 137	126511624
Nitrobenzene-d5-SURR	1125427	Blank	38.8	50.0	mg/L	77.6	0.100 - 131	126511624
Phenol-d6-SURR	1125427	Blank	32.9	100	mg/L	32.9	0.100 - 66.5	126511624
2,4,6-Tribromophenol	1125879	Blank	2.05	3.33	mg/L	61.6	9.79 - 123	126511621
2,4,6-Tribromophenol	1125879	LCS	1.43	3.33	mg/L	42.9	9.79 - 123	126511622
2,4,6-Tribromophenol	1125879	LCS Dup	1.90	3.33	mg/L	57.1	9.79 - 123	126511623
2-Fluorobiphenyl-SURR	1125879	Blank	33.3	50.0	mg/L	66.6	0.100 - 131	126511621
2-Fluorobiphenyl-SURR	1125879	LCS	13.1	50.0	mg/L	26.2	0.100 - 131	126511622
2-Fluorobiphenyl-SURR	1125879	LCS Dup	19.3	50.0	mg/L	38.6	0.100 - 131	126511623
2-Fluorophenol-SURR	1125879	Blank	40.5	100	mg/L	40.5	5.36 - 80.2	126511621
2-Fluorophenol-SURR	1125879	LCS	33.5	100	mg/L	33.5	5.36 - 80.2	126511622
2-Fluorophenol-SURR	1125879	LCS Dup	38.5	100	mg/L	38.5	5.36 - 80.2	126511623
4-Terphenyl-d14-SURR	1125879	Blank	36.1	50.0	mg/L	72.2	0.100 - 137	126511621
4-Terphenyl-d14-SURR	1125879	LCS	16.0	50.0	mg/L	32.0	0.100 - 137	126511622
4-Terphenyl-d14-SURR	1125879	LCS Dup	20.5	50.0	mg/L	41.0	0.100 - 137	126511623
Nitrobenzene-d5-SURR	1125879	Blank	37.8	50.0	mg/L	75.6	0.100 - 131	126511621
Nitrobenzene-d5-SURR	1125879	LCS	14.6	50.0	mg/L	29.2	0.100 - 131	126511622
Nitrobenzene-d5-SURR	1125879	LCS Dup	20.2	50.0	mg/L	40.4	0.100 - 131	126511623
Phenol-d6-SURR	1125879	Blank	30.2	100	mg/L	30.2	0.100 - 66.5	126511621

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GBRE-C

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenol-d6-SURR	1125879	LCS	21.6	100	mg/L	21.6	0.100 - 66.5	126511622
Phenol-d6-SURR	1125879	LCS Dup	25.8	100	mg/L	25.8	0.100 - 66.5	126511623
2,4,6-Tribromophenol	2309897	MS	0.547	1.00	mg/L	54.7	9.79 - 123	126511627
2-Fluorobiphenyl-SURR	2309897	MS	0.192	0.500	mg/L	38.4	0.100 - 131	126511627
2-Fluorophenol-SURR	2309897	MS	0.384	1.00	mg/L	38.4	5.36 - 80.2	126511627
4-Terphenyl-d14-SURR	2309897	MS	0.230	0.500	mg/L	46.0	0.100 - 137	126511627
Nitrobenzene-d5-SURR	2309897	MS	0.214	0.500	mg/L	42.8	0.100 - 131	126511627
Phenol-d6-SURR	2309897	MS	0.257	1.00	mg/L	25.7	0.100 - 66.5	126511627
2,4,6-Tribromophenol	2309996	Unknown	0.692	1.00	mg/L	69.2	9.79 - 123	126511628
2-Fluorobiphenyl-SURR	2309996	Unknown	0.347	0.500	mg/L	69.4	0.100 - 131	126511628
2-Fluorophenol-SURR	2309996	Unknown	0.450	1.00	mg/L	45.0	5.36 - 80.2	126511628
4-Terphenyl-d14-SURR	2309996	Unknown	0.443	0.500	mg/L	88.6	0.100 - 137	126511628
Nitrobenzene-d5-SURR	2309996	Unknown	0.354	0.500	mg/L	70.8	0.100 - 131	126511628
Phenol-d6-SURR	2309996	Unknown	0.280	1.00	mg/L	28.0	0.100 - 66.5	126511628
2,4,6-Tribromophenol	2310000	Unknown	0.714	1.00	mg/L	71.4	9.79 - 123	126511629
2-Fluorobiphenyl-SURR	2310000	Unknown	0.383	0.500	mg/L	76.6	0.100 - 131	126511629
2-Fluorophenol-SURR	2310000	Unknown	0.526	1.00	mg/L	52.6	5.36 - 80.2	126511629
4-Terphenyl-d14-SURR	2310000	Unknown	0.401	0.500	mg/L	80.2	0.100 - 137	126511629
Nitrobenzene-d5-SURR	2310000	Unknown	0.416	0.500	mg/L	83.2	0.100 - 131	126511629
Phenol-d6-SURR	2310000	Unknown	0.338	1.00	mg/L	33.8	0.100 - 66.5	126511629
2,4,6-Tribromophenol	2310001	Unknown	0.580	1.00	mg/L	58.0	9.79 - 123	126511630
2-Fluorobiphenyl-SURR	2310001	Unknown	0.324	0.500	mg/L	64.8	0.100 - 131	126511630
2-Fluorophenol-SURR	2310001	Unknown	0.467	1.00	mg/L	46.7	5.36 - 80.2	126511630
4-Terphenyl-d14-SURR	2310001	Unknown	0.445	0.500	mg/L	89.0	0.100 - 137	126511630
Nitrobenzene-d5-SURR	2310001	Unknown	0.390	0.500	mg/L	78.0	0.100 - 131	126511630
Phenol-d6-SURR	2310001	Unknown	0.285	1.00	mg/L	28.5	0.100 - 66.5	126511630

Analytical Set **1126708** — **EPA 8082**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
PCB-1016	1125573	ND	43.0	250	ug/kg	126512068
PCB-1221	1125573	ND	43.0	250	ug/kg	126512068
PCB-1232	1125573	ND	43.0	250	ug/kg	126512068
PCB-1242	1125573	ND	43.0	250	ug/kg	126512068
PCB-1248	1125573	ND	43.0	250	ug/kg	126512068
PCB-1254	1125573	ND	43.0	250	ug/kg	126512068
PCB-1260	1125573	ND	43.0	250	ug/kg	126512068
PCB-1262	1125573	ND	78.3	250	ug/kg	126512068
PCB-1268	1125573	ND	78.3	250	ug/kg	126512068

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
PCB-1016	1050	1000	ug/kg	105	80.0 - 115		126512067
PCB-1260	948	1000	ug/kg	94.8	80.0 - 115		126512067
PCB-1016	798	1000	ug/kg	79.8	80.0 - 115	*	126512075

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1260	784	1000	ug/kg	78.4	80.0 - 115	*	126512075

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1125573	2990	3280	5000	39.8 - 135	59.8	65.6	ug/kg	9.25	30.0
PCB-1260	1125573	3180	3610	5000	36.1 - 134	63.6	72.2	ug/kg	12.7	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1125573	Blank	63.6	100	ug/kg	63.6	10.0 - 200	126512068
Tetrachloro-m-Xylene (Surr)	1125573	Blank	60.8	100	ug/kg	60.8	10.0 - 200	126512068
Decachlorobiphenyl	2309996	Unknown	28.8	50.0	ug/kg	57.6	10.0 - 200	126512074
Tetrachloro-m-Xylene (Surr)	2309996	Unknown	28.9	50.0	ug/kg	57.8	10.0 - 200	126512074
Decachlorobiphenyl	2310000	Unknown	30.1	50.0	ug/kg	60.2	10.0 - 200	126512072
Tetrachloro-m-Xylene (Surr)	2310000	Unknown	27.2	50.0	ug/kg	54.4	10.0 - 200	126512072
Decachlorobiphenyl	2310001	Unknown	32.4	50.0	ug/kg	64.8	10.0 - 200	126512073
Tetrachloro-m-Xylene (Surr)	2310001	Unknown	34.7	50.0	ug/kg	69.4	10.0 - 200	126512073

Analytical Set 1127320 — **EPA 8081A**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1125427	ND	0.0183	0.020	mg/L	126525158
TCLP Endrin	1125427	ND	0.000538	0.001	mg/L	126525158
TCLP gamma-BHC (Lindane)	1125427	ND	0.000385	0.001	mg/L	126525158
TCLP Heptachlor	1125427	0.000867	0.000207	0.001	mg/L	126525158
TCLP Heptachlor Epoxide	1125427	ND	0.00066	0.001	mg/L	126525158
TCLP Methoxychlor	1125427	ND	0.000898	0.001	mg/L	126525158
TCLP Toxaphene	1125427	ND	0.000169	0.0002	mg/L	126525158
TCLP Chlordane	1126252	ND	0.0183	0.020	mg/L	126525155
TCLP Endrin	1126252	ND	0.000538	0.001	mg/L	126525155
TCLP gamma-BHC (Lindane)	1126252	ND	0.000385	0.001	mg/L	126525155
TCLP Heptachlor	1126252	ND	0.000207	0.001	mg/L	126525155
TCLP Heptachlor Epoxide	1126252	ND	0.00066	0.001	mg/L	126525155
TCLP Methoxychlor	1126252	ND	0.000898	0.001	mg/L	126525155
TCLP Toxaphene	1126252	ND	0.000169	0.0002	mg/L	126525155

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.048	0.050	mg/L	96.0	70.0 - 130	126525154
TCLP Endrin	0.0522	0.050	mg/L	104	70.0 - 130	126525168
TCLP gamma-BHC (Lindane)	0.0472	0.050	mg/L	94.4	70.0 - 130	126525154
TCLP gamma-BHC (Lindane)	0.0408	0.050	mg/L	81.6	70.0 - 130	126525168
TCLP Heptachlor	0.0459	0.050	mg/L	91.8	70.0 - 130	126525154
TCLP Heptachlor	0.0395	0.050	mg/L	79.1	70.0 - 130	126525168
TCLP Heptachlor Epoxide	0.046	0.050	mg/L	92.0	70.0 - 130	126525154
TCLP Heptachlor Epoxide	0.048	0.050	mg/L	96.1	70.0 - 130	126525168

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Methoxychlor	0.0499	0.050	mg/L	99.7	70.0 - 130	126525154
TCLP Methoxychlor	0.037	0.050	mg/L	74.0	70.0 - 130	126525168

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	1126252	0.0711	0.0674	0.100	42.6 - 137	71.1	67.4	mg/L	5.34	30.0
TCLP gamma-BHC (Lindane)	1126252	0.0676	0.062	0.100	33.0 - 129	67.6	62.0	mg/L	8.64	30.0
TCLP Heptachlor	1126252	0.0588	0.0518	0.100	24.2 - 129	58.8	51.8	mg/L	12.7	30.0
TCLP Heptachlor Epoxide	1126252	0.0644	0.0608	0.100	40.8 - 128	64.4	60.8	mg/L	5.75	30.0
TCLP Methoxychlor	1126252	0.0785	0.0746	0.100	33.3 - 146	78.5	74.6	mg/L	5.09	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	2309897	0.00339	0	ND	0.005	24.3 - 151	67.8		mg/L		30.0
TCLP gamma-BHC (Lindane)	2309897	0.003	0	ND	0.005	21.3 - 144	60.0		mg/L		30.0
TCLP Heptachlor	2309897	0.0019	0	ND	0.005	14.9 - 138	38.0		mg/L		30.0
TCLP Heptachlor Epoxide	2309897	0.00299	0	ND	0.005	29.9 - 133	59.8		mg/L		30.0
TCLP Methoxychlor	2309897	0.00125	0	ND	0.005	10.3 - 183	25.0		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	625249	CCV	0.0493	0.100	mg/L	49.3	10.0 - 150	126525154
Decachlorobiphenyl	625249	CCV	0.0528	0.100	mg/L	52.8	10.0 - 150	126525168
Tetrachloro-m-Xylene (Surr)	625249	CCV	0.0452	0.100	mg/L	45.2	10.0 - 150	126525154
Tetrachloro-m-Xylene (Surr)	625249	CCV	0.0392	0.100	mg/L	39.2	10.0 - 150	126525168
Decachlorobiphenyl	1125427	Blank	0.0877	0.100	mg/L	87.7	10.0 - 150	126525158
Tetrachloro-m-Xylene (Surr)	1125427	Blank	0.0623	0.100	mg/L	62.3	10.0 - 150	126525158
Decachlorobiphenyl	1126252	Blank	0.109	0.100	mg/L	109	10.0 - 150	126525155
Decachlorobiphenyl	1126252	LCS	0.0819	0.100	mg/L	81.9	10.0 - 150	126525156
Decachlorobiphenyl	1126252	LCS Dup	0.0695	0.100	mg/L	69.5	10.0 - 150	126525157
Tetrachloro-m-Xylene (Surr)	1126252	Blank	0.0716	0.100	mg/L	71.6	10.0 - 150	126525155
Tetrachloro-m-Xylene (Surr)	1126252	LCS	0.0528	0.100	mg/L	52.8	10.0 - 150	126525156
Tetrachloro-m-Xylene (Surr)	1126252	LCS Dup	0.0497	0.100	mg/L	49.7	10.0 - 150	126525157
Decachlorobiphenyl	2309897	MS	0.00284	0.005	mg/L	56.8	10.0 - 150	126525160
Tetrachloro-m-Xylene (Surr)	2309897	MS	0.00232	0.005	mg/L	46.4	10.0 - 150	126525160
Decachlorobiphenyl	2309996	Unknown	0.00445	0.005	mg/L	89.0	10.0 - 150	126525161
Tetrachloro-m-Xylene (Surr)	2309996	Unknown	0.00294	0.005	mg/L	58.8	10.0 - 150	126525161
Decachlorobiphenyl	2310000	Unknown	0.00428	0.005	mg/L	85.6	10.0 - 150	126525162
Tetrachloro-m-Xylene (Surr)	2310000	Unknown	0.00317	0.005	mg/L	63.4	10.0 - 150	126525162
Decachlorobiphenyl	2310001	Unknown	0.00355	0.005	mg/L	71.0	10.0 - 150	126525163
Tetrachloro-m-Xylene (Surr)	2310001	Unknown	0.00264	0.005	mg/L	52.8	10.0 - 150	126525163

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

Recover% is Recovery Percent: result / known * 100%

QUALITY CONTROL

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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); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); LDR - Linear Dynamic Range Standard; MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.); DFTPP - GC/MS Tuning Compound

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GBRE-C-4
113

Lab Number 2310000

PO Number

Phone 512/312-0526

Shadow Creek Annual

☐ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 6-18-24 Time: 10:00 AM

Sampler Printed Name: Jesus Loera

Sampler Affiliation: GBRA

Sampler Signature: Jesus Loera

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 Glass Qt w/Teflon lined lid

NELAC	*AsT	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (14.0 days)
NELAC	*CdT	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (14.0 days)
NELAC	*CrT	TCLP Chromium	EPA 6020A CAS:7440-47-3 (14.0 days)
NELAC	*CuT	TCLP Copper	EPA 6020A CAS:7440-50-8 (14.0 days)
NELAC	*Hg*	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	*MoT	TCLP Molybdenum	EPA 6020A CAS:7439-98-7 (14.0 days)
NELAC	*NiT	TCLP Nickel	EPA 6020A CAS:7440-02-0 (14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
NELAC	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	*ZnT	TCLP Zinc	EPA 6020A CAS:7440-66-6 (14.0 days)
NELAC	TABN	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)

1107888 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

Printed 06/10/2024 Page 2 of 3

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

GBRE-C-4
113

NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 Glass 4 oz w/Teflon lined lid

NELAC	!PCB	Polychlorinated Biphenyls	EPA 8082 (7.00 days)
NELAC	*AsM	Arsenic, Total	EPA 6020A CAS:7440-38-2 (180 days)
NELAC	*CdM	Cadmium, Total	EPA 6020A CAS:7440-43-9 (180 days)
NELAC	*CrM	Chromium, Total	EPA 6020A CAS:7440-47-3 (180 days)
NELAC	*CuM	Copper, Total	EPA 6020A CAS:7440-50-8 (180 days)
NELAC	*HgS	Mercury	EPA 7471B 2 CAS:7439-97-6 (28.0 days)
NELAC	*MoM	Molybdenum, Total	EPA 6020A CAS:7439-98-7 (180 days)
NELAC	*NiM	Nickel, Total	EPA 6020A CAS:7440-02-0 (180 days)
NELAC	*PbM	Lead, Total	EPA 6020A CAS:7439-92-1 (180 days)
NELAC	*SeM	Selenium, Total	EPA 6020A CAS:7782-49-2 (180 days)
NELAC	*ZnM	Zinc, Total	EPA 6020A CAS:7440-66-6 (180 days)
NELAC	301S	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
NELAC	747S	Solid Metals Digestion Hg	EPA 7471B (28.0 days)
	P130	Pickup/Sampling/Transport	
NELAC	TS%	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

ARDW	As Received to Dry Weight Basis	Calculation

Ambient Conditions/Comments

1107888 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

Printed 06/10/2024 Page 3 of 3

GBRA Buda
Jesi Mann
575 Garison Rd
Buda, TX 78610

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113

Date	Time	Relinquished	Received
6/20/24	1037	Printed Name: Dennis Walker Affiliation: GBRA Signature: D Walker	Printed Name: Wood Affiliation: SPL Signature:
6/20/24	1700	Printed Name: Cody Wood Affiliation: SPL Signature:	Printed Name: FedEx Affiliation: Signature:
6/21/24	1015	Printed Name: FedEx Affiliation: Signature:	Printed Name: Ashley Vasquez - SPL, Inc. Affiliation: Signature:
		Printed Name: Affiliation: Signature:	Printed Name: Affiliation: Signature:

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Publish Date/Time: 9/3/2020 12:22 PM

Report of Analysis

For: **425066 - GBRA-Singing Hills**
Attn:

933 E Court St
Seguin, TX 78155

Michelle M. Robertson

Released By: Michelle Robertson
Title: Quality Assurance Officer

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

1 Parameter not available for NELAP accreditation at the GBRA
NA = not analyzed

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Publish Date/Time: 9/3/2020 12:22 PM

Lab Sample ID: 200813.11-01 **Collection Date/Time:** 8/13/2020 06:30 AM **Sample Matrix:** Solids

Site: Sludge **Receive Date/Time:** 8/13/2020 01:11 PM **Sample Type:** Grab

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1	TCLP Arsenic	Subcontract	See Attached Report	mg/L	1			8/25/2020 02:32 PM			
1	TCLP Barium	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Cadmium	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Chromium	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Lead	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Mercury	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Selenium	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	TCLP Silver	Subcontract	See Attached Report		1			8/25/2020 02:32 PM			
1	PCB-1016	Subcontract	See Attached Report		1			8/27/2020 07:21 PM			
1	TCLP gamma-BHC (Lindane)	Subcontract	See Attached Report	mg/L	1			8/28/2020 03:12 AM			
1	PCB-1221	Subcontract	See Attached Report		1			8/27/2020 07:21 PM			
1	TCLP Chlordane	Subcontract	See Attached Report		1			8/28/2020 03:12 AM			
1	PCB-1232	Subcontract	See		1			8/27/2020 07:21 PM			

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1 TCLP Endrin	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 PCB-1242	Subcontract	See Attached Report	1	8/27/2020 07:21 PM
1 TCLP Heptachlor	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 PCB-1248	Subcontract	See Attached Report	1	8/27/2020 07:21 PM
1 TCLP Heptachlor Epoxide	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 PCB-1254	Subcontract	See Attached Report	1	8/27/2020 07:21 PM
1 TCLP Methoxychlor	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 PCB-1260	Subcontract	See Attached Report	1	8/27/2020 07:21 PM
1 TCLP Toxaphene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 TCLP 2,4 D	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 TCLP 2,4,5-TP (Silvex)	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 TCLP 1,2-Dichloroethane	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 TCLP 1,1-Dichloroethene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1 TCLP 1,4 Dichlorobenzene	Subcontract	See	1	8/28/2020 03:12 AM

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Seguin, TX 78155
(830)379-5822 ext 256

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1	TCLP Benzene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Carbon tetrachloride	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Chlorobenzene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Chloroform	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP MEK	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Tetrachloroethylene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Trichloroethylene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Vinyl chloride	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP 3 and 4-Methylphenol (m and p-Cresol)	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP 2-Methylphenol (o-Cresol)	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP 2,4-Dinitrotoluene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Hexachlorobenzene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Hexachlorobutadiene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Hexachloroethane	Subcontract	See	1	8/28/2020 03:12 AM

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1	TCLP Nitrobenzene	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Pentachlorophenol	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Pyridine	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP 2,4,6-Trichlorophenol	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP 2,4,5-Trichlorophenol	Subcontract	See Attached Report	1	8/28/2020 03:12 AM
1	TCLP Total Cresols	Subcontract	See Attached Report	1	8/28/2020 03:12 AM

Subcontract methods are tested by an external laboratory. See subcontracted report for further details.

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LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition

%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments

200813.11	N/A

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GBRA LAB
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Phone: (830) 379-5822 Fax: (830) 379-7478

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

Customer Information

Customer Acct.#: 425066	RUSH Analysis : _____ by EOB (Additional Fees Apply)
Name: GBRA - Singing Hills WWTP	Billing Address:
Address:	Fax #:
Phone #: 830-560-0446	Email 1: chollilday@gbra.org
Thermometer #: 22	Email 2:
Receipt Temp (°C) Observed / Corrected: 4.1 / 5.0	Chlorine Strip GBRA Reagent # / Chlorine : Absent/ Present
Ice: Yes / No (Circle One)	pH Paper GBRA Reagent #:
# of Containers: 2 / Condition of Containers (Intact): Yes / No (Circle One)	Residual Chlorine (Total/Free) Results:

Date Collected	Time Collected	Matrix WW=Wastewater DW=Drinking Water SW=Surface Water S=Soil/Sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	200813.11 GBRA Sample ID	Bottle I.D.#	pH	Type of Preservation	Rush sample (2x, 3x, 4x)
8.13.20	0930	S	1 QT Glass (2)	Sludge		Grab	TCLP, PCBs, Metals	-01				

Collected By: Chad Nelson	Date/Time: 8-13-20 0955	Transferred To: FEDEX	Date/Time: 8-13-2020 0955
Released From: FEDEX	Date/Time: 8-13-2020 1200	Received By:	Date/Time: 8-13-2020 1200
Released From:	Date/Time: 8.13.20 1311	Received By:	Date/Time: 1311 8/17/2020
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

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ANA LAB
Testing the Limits of Science and Service

Project
932840

GBRL-C

GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Printed 09/02/2020 7:54

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GBRL-C

GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
932840

Printed: 09/02/2020

Results

Sample Results

1914427 **200813.11-01** Received: 08/19/2020

Solid & Chemical Materials | Collected by: Client | GBRA/Seguin | PO: dept= LabInvoices@gbra.org
Taken: 08/13/2020 06:30:00

EPA 6020A — Prepared: 913412 08/25/2020 10:15:00 — Analyzed 913491 08/25/2020 14:32:00 JAB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Arsenic**	**<0.050**	**mg/L**	0.050		**7440-38-2**	11
NELAC	**TCLP Barium**	**0.106**	**mg/L**	0.050		**7440-39-3**	11
NELAC	**TCLP Cadmium**	**<0.005**	**mg/L**	0.005		**7440-43-9**	11
NELAC	**TCLP Chromium**	**<0.050**	**mg/L**	0.050		**7440-47-3**	11
NELAC	**TCLP Lead**	**<0.050**	**mg/L**	0.050		**7439-92-1**	11
NELAC	**TCLP Selenium**	**<0.050**	**mg/L**	0.050		**7782-49-2**	11
NELAC	**TCLP Silver**	**<0.050**	**mg/L**	0.050		**7440-22-4**	11

EPA 7470 A — Prepared: 913373 08/25/2020 10:30:00 — Analyzed 913523 08/25/2020 13:53:00 LPS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Mercury**	**<0.0015**	**mg/L**	0.0015		**7439-97-6**	08

EPA 8081A — Prepared: 913388 08/25/2020 14:00:00 — Analyzed 913976 08/28/2020 03:12:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Chlordane**	**<0.00005**	**mg/L**	0.00005		**57-74-9**	09
NELAC	**TCLP Endrin**	**<0.00005**	**mg/L**	0.00005	X	**72-20-8**	09
NELAC	**TCLP gamma-BHC (Lindane)**	**<0.00005**	**mg/L**	0.00005		**58-89-9**	09
NELAC	**TCLP Heptachlor**	**<0.00005**	**mg/L**	0.00005		**76-44-8**	09
NELAC	**TCLP Heptachlor Epoxide**	**<0.00005**	**mg/L**	0.00005		**1024-57-3**	09
NELAC	**TCLP Methoxychlor**	**<0.00005**	**mg/L**	0.00005		**72-43-5**	09
NELAC	**TCLP Toxaphene**	**<0.00005**	**mg/L**	0.00005		**8001-35-2**	09

EPA 8082 — Prepared: 913128 08/24/2020 09:20:00 — Analyzed 914255 08/27/2020 19:21:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**PCB-1016**	**<0.742 ***	**mg/kg**	0.742		**12674-11-2**	04
NELAC	**PCB-1221**	**<0.742 ***	**mg/kg**	0.742		**11104-28-2**	04

NELAP-accredited #T104704201-20-17

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GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
932840

Printed: 09/02/2020

1914427 **200813.11-01** Received: 08/19/2020

Solid & Chemical Materials | Collected by: Client | GBRA/Seguin | PO: dept= LabInvoices@gbra.org
Taken: 08/13/2020 06:30:00

EPA 8082 Prepared: 913128 08/24/2020 09:20:00 Analyzed 914255 08/27/2020 19:21:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**PCB-1232**	**<0.742 ***	**mg/kg**	0.742		**11141-16-5**	04
NELAC	**PCB-1242**	**<0.742 ***	**mg/kg**	0.742		**53469-21-9**	04
NELAC	**PCB-1248**	**<0.742 ***	**mg/kg**	0.742		**12672-29-6**	04
NELAC	**PCB-1254**	**<0.742 ***	**mg/kg**	0.742		**11097-69-1**	04
NELAC	**PCB-1260**	**<0.742 ***	**mg/kg**	0.742	X	**11096-82-5**	04

* Dry Weight Basis

EPA 8151 Prepared: 913703 08/26/2020 14:00:00 Analyzed 913933 08/27/2020 14:51:00 EMT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 2,4 D**	**<0.500**	**mg/L**	0.500		**94-75-7**	13
NELAC	**TCLP 2,4,5-TP (Silvex)**	**<0.300**	**mg/L**	0.300	D	**93-72-1**	13

EPA 8260B Prepared: 913795 08/26/2020 16:05:00 Analyzed 914622 08/31/2020 17:15:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 1,1-Dichloroethene**	**<0.020**	**mg/L**	0.020		**75-35-4**	15
NELAC	**TCLP 1,2-Dichloroethane**	**<0.010**	**mg/L**	0.010		**107-06-2**	15
NELAC	**TCLP 1,4 Dichlorobenzene**	**<0.010**	**mg/L**	0.010	S	**106-46-7**	15
NELAC	**TCLP Benzene**	**<0.0101**	**mg/L**	0.0101		**71-43-2**	15
NELAC	**TCLP Carbon tetrachloride**	**<0.010**	**mg/L**	0.010		**56-23-5**	15
NELAC	**TCLP Chlorobenzene**	**<0.020**	**mg/L**	0.020		**108-90-7**	15
NELAC	**TCLP Chloroform**	**<0.010**	**mg/L**	0.010		**67-66-3**	15
NELAC	**TCLP MEK**	**0.321**	**mg/L**	0.010		**78-93-3**	15
NELAC	**TCLP Tetrachloroethylene**	**<0.020**	**mg/L**	0.020		**127-18-4**	15
NELAC	**TCLP Trichloroethylene**	**<0.0104**	**mg/L**	0.0104		**79-01-6**	15
NELAC	**TCLP Vinyl chloride**	**<0.020**	**mg/L**	0.020		**75-01-4**	15

EPA 8270C Prepared: 913190 08/25/2020 12:30:00 Analyzed 914150 08/27/2020 20:44:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 2,4,5-Trichlorophenol**	**<0.010**	**mg/L**	0.010		**95-95-4**	12
NELAC	**TCLP 2,4,6-Trichlorophenol**	**<0.010**	**mg/L**	0.010		**88-06-2**	12
NELAC	**TCLP 2,4-Dinitrotoluene**	**<0.035**	**mg/L**	0.035		**121-14-2**	12
NELAC	**TCLP 2-Methylphenol (o-Cresol)**	**<0.052**	**mg/L**	0.052			12

NELAP-accredited #T104704201-20-17

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Seguin, TX 78155-5819

Project
932840

Printed: 09/02/2020

1914427 **200813.11-01** Received: 08/19/2020

Solid & Chemical Materials | Collected by: Client | GBRA/Seguin | PO: dept= LabInvoices@gbra.org
Taken: 08/13/2020 06:30:00

EPA 8270C Prepared: 913190 08/25/2020 12:30:00 Analyzed 914150 08/27/2020 20:44:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP 3&4-Methylphenol (m&p-Creso**	**<0.062**	**mg/L**	0.062			12
NELAC	**TCLP Hexachlorobenzene**	**<0.010**	**mg/L**	0.010		**118-74-1**	12
NELAC	**TCLP Hexachlorobutadiene**	**<0.010**	**mg/L**	0.010		**87-68-3**	12
NELAC	**TCLP Hexachloroethane**	**<0.010**	**mg/L**	0.010		**67-72-1**	12
NELAC	**TCLP Nitrobenzene**	**<0.010**	**mg/L**	0.010		**98-95-3**	12
NELAC	**TCLP Pentachlorophenol**	**<0.010**	**mg/L**	0.010		**87-86-5**	12
NELAC	**TCLP Pyridine (Reg. Limit 5)**	**<0.054**	**mg/L**	0.054		**110-86-1**	12

EPA 8270C Prepared: 913190 08/25 2020 12:30:00 Calculated 914150 08/28/2020 14:26:28 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Total Cresols (Reg Lim 200)**	**<0.062**	**mg/L**	0.062		**108-39-4,ect.**	12

SM2540 G-1997 /MOD Prepared: 912562 08/19 2020 15:55:00 Analyzed 912562 08/19/2020 15:55:00 TH2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt**	**3.37**	**%**	0.010			01

Sample Preparation

1914427 **200813.11-01** Received: 08/19/2020

dept= LabInvoices@gbra.org

08/13/2020

Prepared: 08/19/2020 16:26:56 Calculated 08/19 2020 16:26:56 CAL

Sampling/Transport **Verified**

Calculation Prepared: 09/01/2020 14:37:17 Calculated 09/01/2020 14:37:17 CAL

As Received to Dry Weight Basis **Calculated**

NELAP-accredited #T104704201-20-17

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GBRL-C

GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
932840

Printed: 09/02/2020

1914427 **200813.11-01**

Received: 08/19/2020

dept= LabInvoices@gbra.org

08/13/2020

	EPA 3510C	Prepared:	913241	08/24/2020	14:40:00	Analyzed	913190	08/25/2020	12:30:00	CRS
	TCLP Liquid-Liquid Extract	**1/100**	**ml**							07
	EPA 3510C	Prepared:	913241	08/24/2020	14:40:00	Analyzed	913388	08/25/2020	14:00:00	CRS
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**							07
	EPA 1311	Prepared:	913241	08/24/2020	14:40:00	Analyzed	913241	08/24/2020	14:40:00	TDD
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**							01
	EPA 1311ZHE	Prepared:	913795	08/26/2020	16:05:00	Analyzed	913795	08/26/2020	16:05:00	TDD
NELAC	**TCLP Extraction ZHE Volatiles**	**33.6% SOLID**	**ml**							01
	EPA 3005A	Prepared:	913241	08/24/2020	14:40:00	Analyzed	913412	08/25/2020	10:15:00	TES
NELAC	**Metals Digestion TCLP Extract**	**50/10**	**ml**							06
	EPA 3510C	Prepared:	913128	08/24/2020	09:20:00	Analyzed	913128	08/24/2020	09:20:00	CRS
	PCB Liq-Liq Extr. W/Hex Exch.	**10/20**	**grams**							02
	EPA 7470A	Prepared:	913241	08/24/2020	14:40:00	Analyzed	913373	08/25/2020	10:30:00	ALB
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**							06
	EPA 8081A	Prepared:	913388	08/25/2020	14:00:00	Analyzed	913976	08/28/2020	03:12:00	EMT

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	EPA 8081A	*Prepared:*	*913388*	*08/25/2020*	*14:00:00*	*Analyzed*	*913976*	*08/28/2020*	*03:12:00* *EMT*
NELAC	**GC TCLP Pesticide**	**Entered**							09
	EPA 8082	*Prepared:*	*913128*	*08/24/2020*	*09:20:00*	*Analyzed*	*914255*	*08/27/2020*	*19:21:00* *EMT*
NELAC	**Polychlorinated Biphenyls**	**Entered**							04
	EPA 8151	*Prepared:*	*913703*	*08/26/2020*	*14:00:00*	*Analyzed*	*913933*	*08/27/2020*	*14:51:00* *EMT*
NELAC	**GC TCLP Herbicide**	**Entered**							13
	EPA 8151A (Prep)	*Prepared:*	*913241*	*08/24/2020*	*14:40:00*	*Analyzed*	*913703*	*08/26/2020*	*14:00:00* *MCC*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**						07
	EPA 8260B	*Prepared:*	*913795*	*08/26/2020*	*16:05:00*	*Analyzed*	*914622*	*08/31/2020*	*17:15:00* *DWL*
NELAC	**MS TCLP Volatile Analysis**	**Entered**							15
	EPA 8270C	*Prepared:*	*913190*	*08/25/2020*	*12:30:00*	*Analyzed*	*914150*	*08/27/2020*	*20:44:00* *DWL*
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**							12
	SM 2540 G-1997	*Prepared:*	*909843*	*08/19/2020*	*15:55:00*	*Analyzed*	*909843*	*08/19/2020*	*15:55:00* *TH2*
NELAC	**Total Solids Start Code**	**Started**							

NELAP-accredited #T104704201-20-17

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Qualifiers:

D - Duplicate RPD was higher than expected
S - Standard reads lower than desired
X - Standard reads higher than desired.

We report results on an As Received or wet basis unless marked Dry Weight. Unless otherwise noted, testing was performed at Ana-labs corporate laboratory that holds the following Federal and State certificates: EPA Lab Number TX00063, US Department of Agriculture Soil Import Permit P330-17-00117, Texas Commission on Environmental Quality Commercial Drinking Water Lab Approval (Lab ID: TX219), Texas Commission on Environmental Quality NELAP T104704201-20-17, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) Certificate No LA026, Oklahoma Department of Environmental Quality TNI Laboratory Accreditation Program Certificate No. 2018-126, Arkansas Department of Environmental Quality Certification #18-068-0. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under 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 Ana-Lab Corp. 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

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Analytical Set 912562 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt	912562	0.0005			grams	121513992

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Total Solids for Dry Wt	1914304	83.9	84.4	%	0.594		20.0
Total Solids for Dry Wt	1914428	0.883	1.80	%	68.4	*	20.0

Analytical Set 913491 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	913412	ND	0.010	0.010	mg/L	121530616
TCLP Barium	913412	ND	0.010	0.010	mg/L	121530616
TCLP Cadmium	913412	ND	0.001	0.001	mg/L	121530616
TCLP Chromium	913412	ND	0.010	0.010	mg/L	121530616
TCLP Lead	913412	ND	0.010	0.010	mg/L	121530616
TCLP Selenium	913412	ND	0.010	0.010	mg/L	121530616
TCLP Silver	913412	ND	0.010	0.010	mg/L	121530616

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.048	0.05	mg/L	96.0	90.0 - 110	121530615
TCLP Arsenic	0.0463	0.05	mg/L	92.6	90.0 - 110	121530625
TCLP Arsenic	0.0491	0.05	mg/L	98.2	90.0 - 110	121530629
TCLP Barium	0.0482	0.05	mg/L	96.4	90.0 - 110	121530615
TCLP Barium	0.0477	0.05	mg/L	95.4	90.0 - 110	121530625
TCLP Barium	0.048	0.05	mg/L	96.0	90.0 - 110	121530629
TCLP Cadmium	0.0474	0.05	mg/L	94.8	90.0 - 110	121530615
TCLP Cadmium	0.0473	0.05	mg/L	94.6	90.0 - 110	121530625
TCLP Cadmium	0.0477	0.05	mg/L	95.4	90.0 - 110	121530629
TCLP Chromium	0.0504	0.05	mg/L	101	90.0 - 110	121530615
TCLP Chromium	0.0496	0.05	mg/L	99.2	90.0 - 110	121530625
TCLP Chromium	0.0503	0.05	mg/L	101	90.0 - 110	121530629
TCLP Lead	0.0469	0.05	mg/L	93.8	90.0 - 110	121530615
TCLP Lead	0.0482	0.05	mg/L	96.4	90.0 - 110	121530625
TCLP Lead	0.0479	0.05	mg/L	95.8	90.0 - 110	121530629
TCLP Selenium	0.0485	0.05	mg/L	97.0	90.0 - 110	121530615
TCLP Selenium	0.0476	0.05	mg/L	95.2	90.0 - 110	121530625
TCLP Selenium	0.048	0.05	mg/L	96.0	90.0 - 110	121530629
TCLP Silver	0.0474	0.05	mg/L	94.8	90.0 - 110	121530615
TCLP Silver	0.0476	0.05	mg/L	95.2	90.0 - 110	121530625
TCLP Silver	0.0485	0.05	mg/L	97.0	90.0 - 110	121530629

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0486	0.05	mg/L	97.2	90.0 - 110	121530607
TCLP Barium	0.0489	0.05	mg/L	97.8	90.0 - 110	121530607
TCLP Cadmium	0.048	0.05	mg/L	96.0	90.0 - 110	121530607
TCLP Chromium	0.0513	0.05	mg/L	103	90.0 - 110	121530607
TCLP Lead	0.0473	0.05	mg/L	94.6	90.0 - 110	121530607
TCLP Selenium	0.0477	0.05	mg/L	95.4	90.0 - 110	121530607
TCLP Silver	0.0488	0.05	mg/L	97.6	90.0 - 110	121530607

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	913412	0.458	0.463	0.500	89.7 - 114	91.6	92.6	mg/L	1.09	14.0
TCLP Barium	913412	0.476	0.473	0.500	86.9 - 115	95.2	94.6	mg/L	0.632	14.0
TCLP Cadmium	913412	0.241	0.239	0.250	90.1 - 112	96.4	95.6	mg/L	0.833	14.0
TCLP Chromium	913412	0.480	0.484	0.500	88.6 - 120	96.0	96.8	mg/L	0.830	14.0
TCLP Lead	913412	0.480	0.484	0.500	90.4 - 116	96.0	96.8	mg/L	0.830	14.0
TCLP Selenium	913412	0.465	0.471	0.500	89.2 - 124	93.0	94.2	mg/L	1.28	14.0
TCLP Silver	913412	0.0955	0.0945	0.100	85.0 - 114	95.5	94.5	mg/L	1.05	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	1915362	2.36	2.34	ND	2.50	88.9 - 115	94.4	93.6	mg/L	0.851	20.0
TCLP Barium	1915362	3.02	3.03	0.674	2.50	81.0 - 121	93.8	94.2	mg/L	0.425	20.0
TCLP Cadmium	1915362	1.21	1.20	0.00163	1.25	89.2 - 113	96.7	95.9	mg/L	0.831	20.0
TCLP Chromium	1915362	2.42	2.44	0.0124	2.50	93.2 - 114	96.3	97.1	mg/L	0.827	20.0
TCLP Lead	1915362	2.44	2.43	ND	2.50	90.1 - 115	97.6	97.2	mg/L	0.411	20.0
TCLP Selenium	1915362	2.36	2.34	ND	2.50	87.2 - 125	94.4	93.6	mg/L	0.851	20.0
TCLP Silver	1915362	0.474	0.474	ND	0.500	84.5 - 114	94.8	94.8	mg/L	0	20.0

Analytical Set 913523 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	913373	ND	0.000075	0.0001	mg/L	121531482

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.005	0.005	mg/L	100	90.0 - 110	121531481
TCLP Mercury	0.00508	0.005	mg/L	102	90.0 - 110	121531490

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0194	0.02	mg/L	97.0	90.0 - 110	121531480

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00525	0.005	mg/L	105	90.0 - 110	121531479

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	913373	0.00485	0.00503		0.005	85.0 - 118	97.0	101	mg/L	3.64	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	1914005	0.101	0.0982	0.00082	0.100	80.9 - 121	100	97.4	mg/L	2.83	15.0

Analytical Set 913639 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	913190	ND	0.000734	0.001	mg/L	121533491
TCLP 2,4,6-Trichlorophenol	913190	ND	0.000704	0.001	mg/L	121533491
TCLP 2,4-Dinitrotoluene	913190	ND	0.00335	0.0035	mg/L	121533491
TCLP 2-Methylphenol (o-Cresol)	913190	ND	0.00513	0.0052	mg/L	121533491
TCLP 3&4-Methylphenol (m&p-Creso	913190	ND	0.00615	0.0062	mg/L	121533491
TCLP Hexachlorobenzene	913190	ND	0.000187	0.001	mg/L	121533491
TCLP Hexachlorobutadiene	913190	ND	0.000618	0.001	mg/L	121533491
TCLP Hexachloroethane	913190	ND	0.000789	0.001	mg/L	121533491
TCLP Nitrobenzene	913190	ND	0.00039	0.001	mg/L	121533491
TCLP Pentachlorophenol	913190	ND	0.000129	0.001	mg/L	121533491
TCLP Pyridine (Reg. Limit 5)	913190	ND	0.00533	0.0054	mg/L	121533491

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	913190	0.0221	0.0221		0.025	39.2 - 111	88.4	88.4	mg/L	0	30.0
TCLP 2,4,6-Trichlorophenol	913190	0.0226	0.0226		0.025	38.3 - 109	90.4	90.4	mg/L	0	30.0
TCLP 2,4-Dinitrotoluene	913190	0.0199	0.0202		0.025	36.8 - 131	79.6	80.8	mg/L	1.50	30.0
TCLP 2-Methylphenol (o-Cresol)	913190	0.0173	0.017		0.025	21.4 - 88.6	69.2	68.0	mg/L	1.75	30.0
TCLP 3&4-Methylphenol (m&p-Creso	913190	0.016	0.0158		0.025	13.7 - 93.8	64.0	63.2	mg/L	1.26	30.0
TCLP Hexachlorobenzene	913190	0.0251	0.0244		0.025	41.6 - 122	100	97.6	mg/L	2.43	30.0
TCLP Hexachlorobutadiene	913190	0.0111	0.0115		0.025	17.2 - 89.9	44.4	46.0	mg/L	3.54	30.0
TCLP Hexachloroethane	913190	0.00974	0.0105		0.025	14.2 - 90.3	39.0	42.0	mg/L	7.41	30.0
TCLP Nitrobenzene	913190	0.0212	0.0216		0.025	34.2 - 114	84.8	86.4	mg/L	1.87	30.0
TCLP Pentachlorophenol	913190	0.0212	0.0217		0.025	17.5 - 128	84.8	86.8	mg/L	2.33	30.0
TCLP Pyridine (Reg. Limit 5)	913190	0.0111	0.0107		0.025	0.154 - 84.1	44.4	42.8	mg/L	3.67	30.0

Analytical Set 913933 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	913241	ND	0.000159	0.0005	mg/L	121540817
TCLP 2,4,5-TP (Silvex)	913241	ND	0.0000893	0.0003	mg/L	121540817
TCLP 2,4 D	913703	ND	0.000159	0.0005	mg/L	121538376
TCLP 2,4,5-TP (Silvex)	913703	ND	0.0000893	0.0003	mg/L	121538376

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.161	0.150	mg/L	107	70.0 - 130	121538375
TCLP 2,4 D	0.172	0.150	mg/L	114	70.0 - 130	121538382
TCLP 2,4 D	0.183	0.150	mg/L	122	70.0 - 130	121540822
TCLP 2,4,5-TP (Silvex)	0.169	0.150	mg/L	113	70.0 - 130	121538375
TCLP 2,4,5-TP (Silvex)	0.180	0.150	mg/L	120	70.0 - 130	121538382
TCLP 2,4,5-TP (Silvex)	0.193	0.150	mg/L	129	70.0 - 130	121540822

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	913703	0.000804	0.00105	0.001	0.100 - 197	80.4	105	mg/L	26.5	30.0
TCLP 2,4,5-TP (Silvex)	913703	0.00061	0.000883	0.001	13.9 - 165	61.0	88.3	mg/L	36.6 *	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	1913440	0.693	0	ND	1.00	0.100 - 228	69.3		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	1913440	0.624	0	ND	1.00	0.912 - 168	62.4		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.176	0.200	mg/L	88.0	0.100 - 333	121538375
2,4-Dichlorophenylacetic Acid		CCV	0.187	0.200	mg/L	93.5	0.100 - 333	121538382
2,4-Dichlorophenylacetic Acid		CCV	0.200	0.200	mg/L	100	0.100 - 333	121540822
2,4-Dichlorophenylacetic Acid	913241	Blank	0.159	0.200	mg/L	79.5	0.100 - 333	121540817
2,4-Dichlorophenylacetic Acid	913703	Blank	0.090	0.200	mg/L	45.0	0.100 - 333	121538376
2,4-Dichlorophenylacetic Acid	913703	LCS	0.0843	0.200	mg/L	42.2	0.100 - 333	121538377
2,4-Dichlorophenylacetic Acid	913703	LCS Dup	0.137	0.200	mg/L	68.5	0.100 - 333	121538378
2,4-Dichlorophenylacetic Acid	1913440	MS	0.968	2.00	mg/L	48.4	0.100 - 333	121538381
2,4-Dichlorophenylacetic Acid	1914427	UNKNOWN	1.69	2.00	mg/L	84.5	0.100 - 333	121540818

Analytical Set **913976** — **EPA 8081A**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	913241	ND	0.0000018	0.00001	mg/L	121543403
TCLP Endrin	913241	ND	0.000538	0.001	mg/L	121543403
TCLP gamma-BHC (Lindane)	913241	ND	0.000385	0.001	mg/L	121543403
TCLP Heptachlor	913241	0.000408	0.000207	0.001	mg/L	121543403
TCLP Heptachlor Epoxide	913241	ND	0.00066	0.001	mg/L	121543403
TCLP Methoxychlor	913241	ND	0.000898	0.001	mg/L	121543403
TCLP Toxaphene	913241	ND	0.0000037	0.00001	mg/L	121543403
TCLP Chlordane	913388	ND	0.0000018	0.00001	mg/L	121543400
TCLP Endrin	913388	ND	0.000538	0.001	mg/L	121543400
TCLP gamma-BHC (Lindane)	913388	ND	0.000385	0.001	mg/L	121543400
TCLP Heptachlor	913388	ND	0.000207	0.001	mg/L	121543400
TCLP Heptachlor Epoxide	913388	ND	0.00066	0.001	mg/L	121543400

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Methoxychlor	913388	ND	0.000898	0.001	mg/L	121543400
TCLP Toxaphene	913388	ND	0.0000037	0.00001	mg/L	121543400

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP Endrin	0.107	0.100	mg/L	107	70.0 - 130		121539142
TCLP Endrin	0.0893	0.100	mg/L	89.3	70.0 - 130		121539149
TCLP Endrin	0.119	0.100	mg/L	119	70.0 - 130		121543396
TCLP Endrin	0.124	0.100	mg/L	124	70.0 - 130		121543405
TCLP Endrin	0.131	0.100	mg/L	131	70.0 - 130	*	121543408
TCLP gamma-BHC (Lindane)	0.0851	0.100	mg/L	85.1	70.0 - 130		121539142
TCLP gamma-BHC (Lindane)	0.0911	0.100	mg/L	91.1	70.0 - 130		121539149
TCLP gamma-BHC (Lindane)	0.109	0.100	mg/L	109	70.0 - 130		121543396
TCLP gamma-BHC (Lindane)	0.108	0.100	mg/L	108	70.0 - 130		121543405
TCLP gamma-BHC (Lindane)	0.108	0.100	mg/L	108	70.0 - 130		121543408
TCLP Heptachlor	0.0915	0.100	mg/L	91.5	70.0 - 130		121539142
TCLP Heptachlor	0.0878	0.100	mg/L	87.8	70.0 - 130		121539149
TCLP Heptachlor	0.118	0.100	mg/L	118	70.0 - 130		121543396
TCLP Heptachlor	0.119	0.100	mg/L	119	70.0 - 130		121543405
TCLP Heptachlor	0.125	0.100	mg/L	125	70.0 - 130		121543408
TCLP Heptachlor Epoxide	0.0959	0.100	mg/L	95.9	70.0 - 130		121539142
TCLP Heptachlor Epoxide	0.0925	0.100	mg/L	92.5	70.0 - 130		121539149
TCLP Heptachlor Epoxide	0.112	0.100	mg/L	112	70.0 - 130		121543396
TCLP Heptachlor Epoxide	0.110	0.100	mg/L	110	70.0 - 130		121543405
TCLP Heptachlor Epoxide	0.111	0.100	mg/L	111	70.0 - 130		121543408
TCLP Methoxychlor	0.0962	0.100	mg/L	96.2	70.0 - 130		121539142
TCLP Methoxychlor	0.0954	0.100	mg/L	95.4	70.0 - 130		121539149
TCLP Methoxychlor	0.118	0.100	mg/L	118	70.0 - 130		121543396
TCLP Methoxychlor	0.117	0.100	mg/L	117	70.0 - 130		121543405
TCLP Methoxychlor	0.112	0.100	mg/L	112	70.0 - 130		121543408

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	913388	0.0753	0.0893	0.100	42.0 - 137	75.3	89.3	mg/L	17.0	30.0
TCLP gamma-BHC (Lindane)	913388	0.0808	0.0868	0.100	33.6 - 127	80.8	86.8	mg/L	7.16	30.0
TCLP Heptachlor	913388	0.0549	0.065	0.100	23.6 - 127	54.9	65.0	mg/L	16.8	30.0
TCLP Heptachlor Epoxide	913388	0.0706	0.083	0.100	41.2 - 127	70.6	83.0	mg/L	16.1	30.0
TCLP Methoxychlor	913388	0.0638	0.0743	0.100	32.6 - 146	63.8	74.3	mg/L	15.2	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	0.123	0.100	mg/L	123	10.0 - 150	121539142
Decachlorobiphenyl		CCV	0.114	0.100	mg/L	114	10.0 - 150	121539149
Decachlorobiphenyl		CCV	0.115	0.100	mg/L	115	10.0 - 150	121543396
Decachlorobiphenyl		CCV	0.109	0.100	mg/L	109	10.0 - 150	121543405

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	0.0969	0.100	mg/L	96.9	10.0 - 150	121543408
Tetrachloro-m-Xylene (Surr)		CCV	0.0999	0.100	mg/L	99.9	10.0 - 150	121539142
Tetrachloro-m-Xylene (Surr)		CCV	0.101	0.100	mg/L	101	10.0 - 150	121539149
Tetrachloro-m-Xylene (Surr)		CCV	0.108	0.100	mg/L	108	10.0 - 150	121543396
Tetrachloro-m-Xylene (Surr)		CCV	0.106	0.100	mg/L	106	10.0 - 150	121543405
Tetrachloro-m-Xylene (Surr)		CCV	0.107	0.100	mg/L	107	10.0 - 150	121543408
Decachlorobiphenyl	913241	Blank	0.0654	0.100	mg/L	65.4	10.0 - 150	121543403
Tetrachloro-m-Xylene (Surr)	913241	Blank	0.0591	0.100	mg/L	59.1	10.0 - 150	121543403
Decachlorobiphenyl	913388	Blank	0.0347	0.100	mg/L	34.7	10.0 - 150	121543400
Decachlorobiphenyl	913388	LCS	0.055	0.100	mg/L	55.0	10.0 - 150	121543401
Decachlorobiphenyl	913388	LCS Dup	0.0636	0.100	mg/L	63.6	10.0 - 150	121543402
Tetrachloro-m-Xylene (Surr)	913388	Blank	0.0487	0.100	mg/L	48.7	10.0 - 150	121543400
Tetrachloro-m-Xylene (Surr)	913388	LCS	0.0502	0.100	mg/L	50.2	10.0 - 150	121543401
Tetrachloro-m-Xylene (Surr)	913388	LCS Dup	0.0561	0.100	mg/L	56.1	10.0 - 150	121543402

Analytical Set 914150 — EPA 8270C

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	59.3	50.0	mg/L	119	70.0 - 130	121542244
TCLP 2,4,6-Trichlorophenol	56.4	50.0	mg/L	113	70.0 - 130	121542244
TCLP 2,4-Dinitrotoluene	63.6	50.0	mg/L	127	70.0 - 130	121542244
TCLP 2-Methylphenol (o-Cresol)	50.3	50.0	mg/L	101	70.0 - 130	121542244
TCLP 3&4-Methylphenol (m&p-Creso	50.0	50.0	mg/L	99.9	70.0 - 130	121542244
TCLP Hexachlorobenzene	51.4	50.0	mg/L	103	70.0 - 130	121542244
TCLP Hexachlorobutadiene	52.9	50.0	mg/L	106	70.0 - 130	121542244
TCLP Hexachloroethane	51.0	50.0	mg/L	102	70.0 - 130	121542244
TCLP Nitrobenzene	53.0	50.0	mg/L	106	70.0 - 130	121542244
TCLP Pentachlorophenol	58.7	50.0	mg/L	117	70.0 - 130	121542244
TCLP Pyridine (Reg. Limit 5)	52.6	50.0	mg/L	105	70.0 - 130	121542244

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	598772	198	46133	52.5	40.0 - 60.0	121542243
DFTPP Mass 197	598772	198	0	0.0	0 - 1.00	121542243
DFTPP Mass 198	598772	198	87826	100.0	100 - 100	121542243
DFTPP Mass 199	598772	198	6020	6.9	5.00 - 9.00	121542243
DFTPP Mass 275	598772	198	22728	25.9	10.0 - 30.0	121542243
DFTPP Mass 365	598772	198	2646	3.0	1.00 - 100	121542243
DFTPP Mass 441	598772	443	10453	79.9	0 - 100	121542243
DFTPP Mass 442	598772	198	68074	77.5	40.0 - 100	121542243
DFTPP Mass 443	598772	442	13084	19.2	17.0 - 23.0	121542243
DFTPP Mass 51	598772	198	31253	35.6	30.0 - 60.0	121542243

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DFTPP

Parameter		RefMass	Reading	%	Limits%		File
DFTPP Mass 68	598772	69.0	0	0.0	0 - 2.00		121542243
DFTPP Mass 69	598772	198	37370	42.6	0 - 100		121542243
DFTPP Mass 70	598772	69.0	218	0.6	0 - 2.00		121542243

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	597177	CCV	338000	338000	169000	507000	121542244	597177
Acenaphthene-d10-ISTD	597177	CCV	523800	523800	261900	785800	121542244	597177
Naphthalene-d8-ISTD	597177	CCV	1180000	1180000	590200	1771000	121542244	597177
Phenanthrene-d10-ISTD	597177	CCV	826300	826300	413200	1240000	121542244	597177
1,4-Dichlorobenzene-d4-ISTD	1913440	MS	230000	338000	169000	507000	121542253	913190
Acenaphthene-d10-ISTD	1913440	MS	316100	523800	261900	785800	121542253	913190
Naphthalene-d8-ISTD	1913440	MS	780300	1180000	590200	1771000	121542253	913190
Phenanthrene-d10-ISTD	1913440	MS	458800	826300	413200	1240000	121542253	913190
1,4-Dichlorobenzene-d4-ISTD	1914427	UNKNOWN	259800	338000	169000	507000	121542249	913190
Acenaphthene-d10-ISTD	1914427	UNKNOWN	363100	523800	261900	785800	121542249	913190
Naphthalene-d8-ISTD	1914427	UNKNOWN	886600	1180000	590200	1771000	121542249	913190
Phenanthrene-d10-ISTD	1914427	UNKNOWN	534400	826300	413200	1240000	121542249	913190

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	597177	CCV	8.530	8.530	8.470	8.590	121542244	597177
Acenaphthene-d10-ISTD	597177	CCV	15.05	15.05	14.99	15.11	121542244	597177
Naphthalene-d8-ISTD	597177	CCV	11.05	11.05	10.99	11.11	121542244	597177
Phenanthrene-d10-ISTD	597177	CCV	17.59	17.59	17.53	17.65	121542244	597177
1,4-Dichlorobenzene-d4-ISTD	1913440	MS	8.530	8.530	8.470	8.590	121542253	913190
Acenaphthene-d10-ISTD	1913440	MS	15.04	15.05	14.99	15.11	121542253	913190
Naphthalene-d8-ISTD	1913440	MS	11.04	11.05	10.99	11.11	121542253	913190
Phenanthrene-d10-ISTD	1913440	MS	17.58	17.59	17.53	17.65	121542253	913190
1,4-Dichlorobenzene-d4-ISTD	1914427	UNKNOWN	8.520	8.530	8.470	8.590	121542249	913190
Acenaphthene-d10-ISTD	1914427	UNKNOWN	15.04	15.05	14.99	15.11	121542249	913190
Naphthalene-d8-ISTD	1914427	UNKNOWN	11.04	11.05	10.99	11.11	121542249	913190
Phenanthrene-d10-ISTD	1914427	UNKNOWN	17.58	17.59	17.53	17.65	121542249	913190

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1913440	0.224	0	ND	0.250	30.5 - 121	89.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	1913440	0.222	0	ND	0.250	18.8 - 133	88.8		mg/L		30.0
TCLP 2,4-Dinitrotoluene	1913440	0.230	0	ND	0.250	34.3 - 133	92.0		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	1913440	0.171	0	ND	0.250	9.61 - 108	68.4		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	1913440	0.158	0	ND	0.250	0.100 - 157	63.2		mg/L		30.0
TCLP Hexachlorobenzene	1913440	0.209	0	ND	0.250	32.0 - 131	83.6		mg/L		30.0
TCLP Hexachlorobutadiene	1913440	0.142	0	ND	0.250	11.4 - 88.3	56.8		mg/L		30.0

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Hexachloroethane	1913440	0.134	0	ND	0.250	8.60 - 87.8	53.6		mg/L		30.0
TCLP Nitrobenzene	1913440	0.217	0	ND	0.250	27.8 - 121	86.8		mg/L		30.0
TCLP Pentachlorophenol	1913440	0.235	0	ND	0.250	7.03 - 143	94.0		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	1913440	0.137	0	ND	0.250	0.100 - 99.4	54.8		mg/L		30.0

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	597177	63.2	0.050	121542244
TCLP 4-Nitrophenol	597177	62.4	0.050	121542244
TCLP Hexachlorocyclopentadiene	597177	53.8	0.050	121542244
TCLP N-Nitroso-n-propylamine	597177	52.5	0.050	121542244

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	597177	CCV	69.9	100	mg/L	69.9	0.100 - 177	121542244
2-Fluorobiphenyl-SURR	597177	CCV	49.7	50.0	mg/L	99.4	13.0 - 136	121542244
2-Fluorophenol-SURR	597177	CCV	50.0	100	mg/L	50.0	7.70 - 84.2	121542244
4-Terphenyl-d14-SURR	597177	CCV	59.0	50.0	mg/L	118	11.1 - 146	121542244
Nitrobenzene-d5-SURR	597177	CCV	53.1	50.0	mg/L	106	15.7 - 135	121542244
Phenol-d6-SURR	597177	CCV	51.0	100	mg/L	51.0	0.100 - 70.0	121542244
2,4,6-Tribromophenol	1913440	MS	1.01	1.00	mg/L	101	0.100 - 177	121542253
2-Fluorobiphenyl-SURR	1913440	MS	0.333	0.500	mg/L	66.6	13.0 - 136	121542253
2-Fluorophenol-SURR	1913440	MS	0.493	1.00	mg/L	49.3	7.70 - 84.2	121542253
4-Terphenyl-d14-SURR	1913440	MS	0.344	0.500	mg/L	68.8	11.1 - 146	121542253
Nitrobenzene-d5-SURR	1913440	MS	0.359	0.500	mg/L	71.8	15.7 - 135	121542253
Phenol-d6-SURR	1913440	MS	0.335	1.00	mg/L	33.5	0.100 - 70.0	121542253
2,4,6-Tribromophenol	1914427	UNKNOWN	0.989	1.00	mg/L	98.9	0.100 - 177	121542249
2-Fluorobiphenyl-SURR	1914427	UNKNOWN	0.377	0.500	mg/L	75.4	13.0 - 136	121542249
2-Fluorophenol-SURR	1914427	UNKNOWN	0.519	1.00	mg/L	51.9	7.70 - 84.2	121542249
4-Terphenyl-d14-SURR	1914427	UNKNOWN	0.342	0.500	mg/L	68.4	11.1 - 146	121542249
Nitrobenzene-d5-SURR	1914427	UNKNOWN	0.389	0.500	mg/L	77.8	15.7 - 135	121542249
Phenol-d6-SURR	1914427	UNKNOWN	0.348	1.00	mg/L	34.8	0.100 - 70.0	121542249

Analytical Set **914255** **EPA 8082**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	913128	ND	43.0	250	ug/kg	121544308
PCB-1221	913128	ND	43.0	250	ug/kg	121544308
PCB-1232	913128	ND	43.0	250	ug/kg	121544308
PCB-1242	913128	ND	43.0	250	ug/kg	121544308
PCB-1248	913128	ND	43.0	250	ug/kg	121544308
PCB-1254	913128	ND	43.0	250	ug/kg	121544308
PCB-1260	913128	ND	43.0	250	ug/kg	121544308

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Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1030	1000	ug/kg	103	80.0 - 120	121544317
PCB-1016	1120	1000	ug/kg	112	80.0 - 120	121544332
PCB-1260	1120	1000	ug/kg	112	80.0 - 120	121544317
PCB-1260	1130	1000	ug/kg	113	80.0 - 120	121544332

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	913128	4600	4290	5000	29.2 - 189	92.0	85.8	ug/kg	6.97	30.0
PCB-1260	913128	5540	5000	2500	38.4 - 175	222 *	200 *	ug/kg	10.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	913128	Blank	45.2	100	ug/kg	45.2	10.0 - 200	121544308
Tetrachloro-m-Xylene (Surr)	913128	Blank	46.7	100	ug/kg	46.7	10.0 - 160	121544308
Decachlorobiphenyl	1914427	UNKNOWN	21.4	50.0	ug/kg	42.8	10.0 - 200	121544325
Tetrachloro-m-Xylene (Surr)	1914427	UNKNOWN	14.0	50.0	ug/kg	28.0	10.0 - 160	121544325

Analytical Set 914622 — EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	914622	174	0	0.0	0 - 2.00	121552050
BFB Mass 174	914622	95.0	22228	73.5	50.0 - 100	121552050
BFB Mass 175	914622	174	1692	7.6	5.00 - 9.00	121552050
BFB Mass 176	914622	174	21919	98.6	95.0 - 101	121552050
BFB Mass 177	914622	176	1525	7.0	5.00 - 9.00	121552050
BFB Mass 50	914622	95.0	5746	19.0	15.0 - 40.0	121552050
BFB Mass 75	914622	95.0	14656	48.5	30.0 - 60.0	121552050
BFB Mass 95	914622	95.0	30235	100.0	100 - 100	121552050
BFB Mass 96	914622	95.0	2093	6.9	5.00 - 9.00	121552050

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	914622	ND	0.0011	0.002	mg/L	121552054
TCLP 1,1-Dichloroethene	914622	ND	0.0011	0.002	mg/L	121552055
TCLP 1,1-Dichloroethene	914622	ND	0.0011	0.002	mg/L	121552056
TCLP 1,2-Dichloroethane	914622	ND	0.000874	0.001	mg/L	121552054
TCLP 1,2-Dichloroethane	914622	ND	0.000874	0.001	mg/L	121552055
TCLP 1,2-Dichloroethane	914622	ND	0.000874	0.001	mg/L	121552056
TCLP 1,4 Dichlorobenzene	914622	ND	0.000958	0.001	mg/L	121552054
TCLP 1,4 Dichlorobenzene	914622	ND	0.000958	0.001	mg/L	121552055
TCLP 1,4 Dichlorobenzene	914622	ND	0.000958	0.001	mg/L	121552056
TCLP Benzene	914622	ND	0.00101	0.00101	mg/L	121552054
TCLP Benzene	914622	ND	0.00101	0.00101	mg/L	121552055
TCLP Benzene	914622	ND	0.00101	0.00101	mg/L	121552056

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Parameter	PrepSet	Reading	MDL	MQL	Units		File
TCLP Carbon tetrachloride	914622	ND	0.000246	0.001	mg/L		121552054
TCLP Carbon tetrachloride	914622	ND	0.000246	0.001	mg/L		121552055
TCLP Carbon tetrachloride	914622	ND	0.000246	0.001	mg/L		121552056
TCLP Chlorobenzene	914622	ND	0.00106	0.002	mg/L		121552054
TCLP Chlorobenzene	914622	ND	0.00106	0.002	mg/L		121552055
TCLP Chlorobenzene	914622	ND	0.00106	0.002	mg/L		121552056
TCLP Chloroform	914622	ND	0.000971	0.001	mg/L		121552054
TCLP Chloroform	914622	ND	0.000971	0.001	mg/L		121552055
TCLP Chloroform	914622	ND	0.000971	0.001	mg/L		121552056
TCLP MEK	914622	ND	0.000742	0.001	mg/L		121552054
TCLP MEK	914622	0.0131	0.000742	0.001	mg/L	*	121552055
TCLP MEK	914622	ND	0.000742	0.001	mg/L		121552056
TCLP Tetrachloroethylene	914622	ND	0.00112	0.002	mg/L		121552054
TCLP Tetrachloroethylene	914622	ND	0.00112	0.002	mg/L		121552055
TCLP Tetrachloroethylene	914622	ND	0.00112	0.002	mg/L		121552056
TCLP Trichloroethylene	914622	ND	0.00104	0.00104	mg/L		121552054
TCLP Trichloroethylene	914622	ND	0.00104	0.00104	mg/L		121552055
TCLP Trichloroethylene	914622	ND	0.00104	0.00104	mg/L		121552056
TCLP Vinyl chloride	914622	ND	0.0012	0.002	mg/L		121552054
TCLP Vinyl chloride	914622	ND	0.0012	0.002	mg/L		121552055
TCLP Vinyl chloride	914622	ND	0.0012	0.002	mg/L		121552056

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0163	0.020	mg/L	81.5	70.0 - 130	121552051
TCLP 1,2-Dichloroethane	0.0164	0.020	mg/L	82.0	70.0 - 130	121552051
TCLP 1,4 Dichlorobenzene	0.0154	0.020	mg/L	77.0	70.0 - 130	121552051
TCLP Benzene	0.0169	0.020	mg/L	84.5	70.0 - 130	121552051
TCLP Carbon tetrachloride	0.0163	0.020	mg/L	81.5	70.0 - 130	121552051
TCLP Chlorobenzene	0.0169	0.020	mg/L	84.5	70.0 - 130	121552051
TCLP Chloroform	0.0167	0.020	mg/L	83.5	70.0 - 130	121552051
TCLP MEK	0.0148	0.020	mg/L	74.0	70.0 - 130	121552051
TCLP Tetrachloroethylene	0.0175	0.020	mg/L	87.5	70.0 - 130	121552051
TCLP Trichloroethylene	0.0167	0.020	mg/L	83.5	70.0 - 130	121552051
TCLP Vinyl chloride	0.0179	0.020	mg/L	89.5	70.0 - 130	121552051

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	914622	CCV	308600	308600	216000	401100	121552051	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	LCS	312500	308600	216000	401100	121552052	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	LCS Dup	304600	308600	216000	401100	121552053	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	283000	308600	216000	401100	121552054	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	298800	308600	216000	401100	121552055	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	305600	308600	216000	401100	121552056	914622

Quality Control

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GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
932840

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
ChlorobenzeneD5 (ISTD)	914622	CCV	597400	597400	418200	776600	121552051	914622
ChlorobenzeneD5 (ISTD)	914622	LCS	610600	597400	418200	776600	121552052	914622
ChlorobenzeneD5 (ISTD)	914622	LCS Dup	580100	597400	418200	776600	121552053	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	586800	597400	418200	776600	121552054	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	607400	597400	418200	776600	121552055	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	620800	597400	418200	776600	121552056	914622
1,4-DichlorobenzeneD4 (ISTD)	1914428	MS	288000	308600	216000	401100	121552061	913795
1,4-DichlorobenzeneD4 (ISTD)	1914428	MSD	301900	308600	216000	401100	121552062	913795
ChlorobenzeneD5 (ISTD)	1914428	MS	550200	597400	418200	776600	121552061	913795
ChlorobenzeneD5 (ISTD)	1914428	MSD	594900	597400	418200	776600	121552062	913795

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	914622	LCS	11.94	11.94	11.88	12.00	121552052	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	LCS Dup	11.94	11.94	11.88	12.00	121552053	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	11.94	11.94	11.88	12.00	121552054	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	11.94	11.94	11.88	12.00	121552055	914622
1,4-DichlorobenzeneD4 (ISTD)	914622	Blank	11.94	11.94	11.88	12.00	121552056	914622
ChlorobenzeneD5 (ISTD)	914622	LCS	9.567	9.568	9.508	9.628	121552052	914622
ChlorobenzeneD5 (ISTD)	914622	LCS Dup	9.567	9.568	9.508	9.628	121552053	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	9.573	9.568	9.508	9.628	121552054	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	9.567	9.568	9.508	9.628	121552055	914622
ChlorobenzeneD5 (ISTD)	914622	Blank	9.568	9.568	9.508	9.628	121552056	914622
1,4-DichlorobenzeneD4 (ISTD)	1914428	MS	11.94	11.94	11.88	12.00	121552061	913795
1,4-DichlorobenzeneD4 (ISTD)	1914428	MSD	11.94	11.94	11.88	12.00	121552062	913795
ChlorobenzeneD5 (ISTD)	1914428	MS	9.567	9.568	9.508	9.628	121552061	913795
ChlorobenzeneD5 (ISTD)	1914428	MSD	9.567	9.568	9.508	9.628	121552062	913795

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	914622	0.0143	0.0147	0.020	59.8 - 134	71.5	73.5	mg/L	2.76	30.0
TCLP 1,2-Dichloroethane	914622	0.016	0.0167	0.020	70.1 - 133	80.0	83.5	mg/L	4.28	30.0
TCLP 1,4 Dichlorobenzene	914622	0.0142	0.0145	0.020	77.0 - 116	71.0 *	72.5 *	mg/L	2.09	30.0
TCLP Benzene	914622	0.0155	0.0161	0.020	69.0 - 124	77.5	80.5	mg/L	3.80	30.0
TCLP Carbon tetrachloride	914622	0.0158	0.0161	0.020	60.7 - 131	79.0	80.5	mg/L	1.88	30.0
TCLP Chlorobenzene	914622	0.0154	0.0159	0.020	74.7 - 118	77.0	79.5	mg/L	3.19	30.0
TCLP Chloroform	914622	0.0163	0.0168	0.020	71.4 - 127	81.5	84.0	mg/L	3.02	30.0
TCLP MEK	914622	0.0148	0.0158	0.020	49.0 - 152	74.0	79.0	mg/L	6.54	30.0
TCLP Tetrachloroethylene	914622	0.0168	0.0175	0.020	71.1 - 127	84.0	87.5	mg/L	4.08	30.0
TCLP Trichloroethylene	914622	0.0159	0.0164	0.020	71.7 - 126	79.5	82.0	mg/L	3.10	30.0
TCLP Vinyl chloride	914622	0.0148	0.0134	0.020	29.3 - 147	74.0	67.0	mg/L	9.93	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1914428	0.064	0.0566	ND	0.200	0.100 - 184	32.0	28.3	mg/L	12.3	30.0

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Seguin, TX 78155-5819

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932840

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,2-Dichloroethane	1914428	0.148	0.137	ND	0.200	49.3 - 138	74.0	68.5	mg/L	7.72	30.0
TCLP 1,4 Dichlorobenzene	1914428	0.128	0.121	ND	0.200	47.5 - 126	64.0	60.5	mg/L	5.62	30.0
TCLP Benzene	1914428	0.123	0.112	ND	0.200	0.100 - 162	61.5	56.0	mg/L	9.36	30.0
TCLP Carbon tetrachloride	1914428	0.088	0.077	ND	0.200	0.100 - 180	44.0	38.5	mg/L	13.3	30.0
TCLP Chlorobenzene	1914428	0.141	0.131	ND	0.200	32.4 - 138	70.5	65.5	mg/L	7.35	30.0
TCLP Chloroform	1914428	0.142	0.128	ND	0.200	22.0 - 148	71.0	64.0	mg/L	10.4	30.0
TCLP MEK	1914428	0.206	0.195	0.0656	0.200	9.31 - 192	70.2	64.7	mg/L	8.15	30.0
TCLP Tetrachloroethylene	1914428	0.117	0.107	ND	0.200	0.100 - 170	58.5	53.5	mg/L	8.93	30.0
TCLP Trichloroethylene	1914428	0.120	0.106	ND	0.200	0.100 - 171	60.0	53.0	mg/L	12.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	914622	CCV	0.0184	0.020	mg/L	92.0	71.1 - 137	121552051
1,2-DCA-d4 (SURR)	914622	LCS	0.0183	0.020	mg/L	91.5	71.1 - 137	121552052
1,2-DCA-d4 (SURR)	914622	LCS Dup	0.0185	0.020	mg/L	92.5	71.1 - 137	121552053
1,2-DCA-d4 (SURR)	914622	Blank	0.0184	0.020	mg/L	92.0	71.1 - 137	121552054
1,2-DCA-d4 (SURR)	914622	Blank	0.0186	0.020	mg/L	93.0	71.1 - 137	121552055
1,2-DCA-d4 (SURR)	914622	Blank	0.0188	0.020	mg/L	94.0	71.1 - 137	121552056
Bromofluorobenzene (SURR)	914622	CCV	0.0193	0.020	mg/L	96.5	67.7 - 127	121552051
Bromofluorobenzene (SURR)	914622	LCS	0.0195	0.020	mg/L	97.5	67.7 - 127	121552052
Bromofluorobenzene (SURR)	914622	LCS Dup	0.0193	0.020	mg/L	96.5	67.7 - 127	121552053
Bromofluorobenzene (SURR)	914622	Blank	0.0199	0.020	mg/L	99.5	67.7 - 127	121552054
Bromofluorobenzene (SURR)	914622	Blank	0.0194	0.020	mg/L	97.0	67.7 - 127	121552055
Bromofluorobenzene (SURR)	914622	Blank	0.0193	0.020	mg/L	96.5	67.7 - 127	121552056
Dibromofluoromethane (SURR)	914622	CCV	0.0188	0.020	mg/L	94.0	79.0 - 121	121552051
Dibromofluoromethane (SURR)	914622	LCS	0.0195	0.020	mg/L	97.5	79.0 - 121	121552052
Dibromofluoromethane (SURR)	914622	LCS Dup	0.0192	0.020	mg/L	96.0	79.0 - 121	121552053
Dibromofluoromethane (SURR)	914622	Blank	0.0187	0.020	mg/L	93.5	79.0 - 121	121552054
Dibromofluoromethane (SURR)	914622	Blank	0.0185	0.020	mg/L	92.5	79.0 - 121	121552055
Dibromofluoromethane (SURR)	914622	Blank	0.0194	0.020	mg/L	97.0	79.0 - 121	121552056
TolueneD8 (SURR)	914622	CCV	0.0191	0.020	mg/L	95.5	70.0 - 121	121552051
TolueneD8 (SURR)	914622	LCS	0.019	0.020	mg/L	95.0	70.0 - 121	121552052
TolueneD8 (SURR)	914622	LCS Dup	0.0189	0.020	mg/L	94.5	70.0 - 121	121552053
TolueneD8 (SURR)	914622	Blank	0.0184	0.020	mg/L	92.0	70.0 - 121	121552054
TolueneD8 (SURR)	914622	Blank	0.0186	0.020	mg/L	93.0	70.0 - 121	121552055
TolueneD8 (SURR)	914622	Blank	0.0186	0.020	mg/L	93.0	70.0 - 121	121552056
1,2-DCA-d4 (SURR)	1914427	UNKNOWN	0.0187	0.020	mg/L	93.5	71.1 - 137	121552057
Bromofluorobenzene (SURR)	1914427	UNKNOWN	0.0199	0.020	mg/L	99.5	67.7 - 127	121552057
Dibromofluoromethane (SURR)	1914427	UNKNOWN	0.0193	0.020	mg/L	96.5	79.0 - 121	121552057
TolueneD8 (SURR)	1914427	UNKNOWN	0.018	0.020	mg/L	90.0	70.0 - 121	121552057

Quality Control

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GBRA/Seguin
Kylie Gudgell
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project 932840

Printed 09/02/2020

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	**1914428**	**MS**	**0.0193**	**0.020**	**mg/L**	**96.5**	**71.1 - 137**	**121552061**
1,2-DCA-d4 (SURR)	**1914428**	**MSD**	**0.0192**	**0.020**	**mg/L**	**96.0**	**71.1 - 137**	**121552062**
Bromofluorobenzene (SURR)	**1914428**	**MS**	**0.0194**	**0.020**	**mg/L**	**97.0**	**67.7 - 127**	**121552061**
Bromofluorobenzene (SURR)	**1914428**	**MSD**	**0.0196**	**0.020**	**mg/L**	**98.0**	**67.7 - 127**	**121552062**
Dibromofluoromethane (SURR)	**1914428**	**MS**	**0.0197**	**0.020**	**mg/L**	**98.5**	**79.0 - 121**	**121552061**
Dibromofluoromethane (SURR)	**1914428**	**MSD**	**0.020**	**0.020**	**mg/L**	**100**	**79.0 - 121**	**121552062**
TolueneD8 (SURR)	**1914428**	**MS**	**0.0191**	**0.020**	**mg/L**	**95.5**	**70.0 - 121**	**121552061**
TolueneD8 (SURR)	**1914428**	**MSD**	**0.0192**	**0.020**	**mg/L**	**96.0**	**70.0 - 121**	**121552062**

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

Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank; CCV - Continuing Calibration Verification; ICV - Initial Calibration Verification; MS - Matrix Spike; DFTPP - GC/MS Tuning Compound; BFB - GC/MS Tuning Compound

Chain of Custody

Guadalupe Blanco River Authority- Regional Laboratory
933 E. Court Street, Seguin, Texas 78155
(830) 379-5822 fax: (830) 379-7478

Customer Information

Customer Acct.#

RUSH Due Date: _____ **by EOB**

Name: GBRA

Billing Address labsubinvoices@gbra.org

Address: 933 East Court St

Phone # (830)379-5822 Fax #

Seguin, TX 78155

E-mail: labreports@gbra.org ☐E-mail Only ☐Mail Only

Sample Collected By: _____
Signature

Printed Name Residual Chlorine (Total/Free) Results _____

Thermometer No. _____

pH Paper GBRA reagent no. _____

Temp C	Date Collected	Time Collected	DW=Drinking Water SW=Surface Water S=soil/sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample I.D.	Bottle I.D.#	pH	GBRA Preservation	Rush sample (2x, 3x, 4x)
	8/13/2020	6:30	S	2 * 1L G	200813.11-01		G	Full TCLP with metals, PCB					
14.7	4.27												
								Time is estimated					
								Due to Pick Up Window					
								Of Carrier					

Delivered By: [signature] Date/Time: 8/18/2020 12:00 Received By: Common Carrier Date/Time: 8/18/2020 12:00

Delivered By: Common Carrier Date/Time: 8/19/20 0540 Received By: [signature] Date/Time: 8/19/20 0540

Special Notes/Ship to: Temperature Tracking # and Temp

Ice: _____ (Y or N) Number of Containers _____ Condition of Container(s): (Intact) _____

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SHIP TO:
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ANA-LAB CORP
2600 DUDLEY RD
KILGORE, TX 75663
9039840551

From:
JENNIFER SANCHEZ
GBRA
933 EAST COURT
SEGUIN, TX 78155
8303785822

G GGG **LSO ECONOMY NEXT DAY**
3:00 IN MOST AREAS
LATER IN REMOTE AREAS

PRINT DATE: 8/17/2020 REF 3:
QUICKCODE: HQ WEIGHT: 5.00LBS
REF 1: 1D00V.0000 REF 2:

8/19 0849 RT
Date Time Tech
Temp: 25.8/5.8 C
Therm#: 8444 Corr Fact: 0.0 C

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned. Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find A Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**.

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 Lone Star Overnight account number.
This label is valid for use for 3 months from the date printed. Use of expired labels may result in delayed billing and / or additional research charges. LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

Publish Date/Time: 7/14/2023 2:24 PM

Report of Analysis

For: **425425 - GBRA-Park Village WWTP**
933 E Court St
Seguin, TX 78155

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

1 Parameter not available for NELAP accreditation at the GBRA
NA = not analyzed

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Publish Date/Time: 7/14/2023 2:24 PM

Lab Sample ID: 230614.26-01 **Collection Date/Time:** 6/14/2023 01:50 PM **Sample Matrix:** Solids

Site: Sludge **Receive Date/Time:** 6/14/2023 03:15 PM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1 Percent Total Solids	Subcontract	See Attached Report	%	1			6/21/2023 07:59 AM			
1 TCLP Arsenic	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 TCLP Cadmium	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 TCLP Chromium	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 TCLP Lead	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 TCLP Mercury	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 TCLP Selenium	Subcontract	See Attached Report	mg/L	1			6/21/2023 02:40 PM			
1 PCB-1016	Subcontract	See Attached Report		1			6/20/2023 10:51 AM			
1 PCB-1221	Subcontract	See Attached Report		1			6/20/2023 10:51 AM			
1 TCLP Chlordane	Subcontract	See Attached Report	mg/L	1			6/21/2023 05:31 PM			
1 PCB-1232	Subcontract	See Attached Report		1			6/20/2023 10:51 AM			
1 TCLP Endrin	Subcontract	See Attached Report	mg/L	1			6/21/2023 05:31 PM			
1 PCB-1242	Subcontract	See		1			6/20/2023 10:51 AM			

[1] Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

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Work Order: 230614.26

1 TCLP Heptachlor	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 PCB-1248	Subcontract	See Attached Report		1	6/20/2023 10:51 AM
1 TCLP Heptachlor Epoxide	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 PCB-1254	Subcontract	See Attached Report		1	6/20/2023 10:51 AM
1 TCLP Methoxychlor	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 PCB-1260	Subcontract	See Attached Report		1	6/20/2023 10:51 AM
1 TCLP Toxaphene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP 2,4 D	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP 1,2-Dichloroethane	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP 1,1-Dichloroethylene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP 1,4 Dichlorobenzene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP Benzene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP Carbon tetrachloride	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1 TCLP Chlorobenzene	Subcontract	See	mg/L	1	6/21/2023 05:31 PM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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			Attached Report			
1	TCLP Chloroform	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Tetrachloroethylene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Trichloroethylene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Vinyl chloride	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP 3 and 4-Methylphenol (m and p-Cresol)	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP 2-Methylphenol (o-Cresol)	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Hexachlorobenzene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Hexachlorobutadiene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Hexachloroethane	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Nitrobenzene	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Pentachlorophenol	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP Pyridine	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP 2,4,6-Trichlorophenol	Subcontract	See Attached Report	mg/L	1	6/21/2023 05:31 PM
1	TCLP 2,4,5-Trichlorophenol	Subcontract	See	mg/L	1	6/21/2023 05:31 PM

[1] Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition			
%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments	
230614.26	N/A

[1] Parameter not available for NELAP accreditation at the GBRA
NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

This report cannot be reproduced, except in full, without prior written permission of the GBRA Laboratory. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted.

GBRA LAB
933 E. Court Street, Seguin, TX 78155
Phone: (830) 379-6822 Fax: (830) 379-7475

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

Customer Information

Customer Acct.#: 426425		RUSH Analysis : _____ by EOB (Additional Fees Apply)	
Name: GBRA-Park Village WWTP		Billing Address:	
Address:		Fax #:	
Phone #: 830-560-0446		Email 1:	cholliday@gbra.org
Thermometer #: 24		Email 2:	hduncan@gbra.org
Receipt Temp (°C) Observed / Corrected: 11.5/11.5		Chlorine Strip GBRA Reagent #	Chlorine : Absent/ Present
Ice: Yes / No (Circle One)		pH Paper GBRA Reagent #:	
# of Containers: 2	Condition of Containers (Intact): Yes / No (Circle One)	Residual Chlorine (Total/Free) Results:	

Date Collected	Time Collected	Matrix (WW=Wastewater DW=Drinking Water SW=Surface Water S=Solid/Soil)	Sx Vol. Px/Plastic G=Glass	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	2306141.26 GBRA Sample ID	pH	Type of Preservation	Rush sample (2x, 3x, 4x)
6-14-23	1350	S	2-1 QRT G	Sludge		Grab	TCLP,PCBs,Metals	-01			

Sampler Name (Print): Cecil Holliday		Sampler Signature:	
Released by (Sampler):	Date/Time: 6-14-23 1515	Transferred To: OK DK	Date/Time: 1515 6/14/23
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

Notes: $=Metals sent to subcontracted lab *=O&G pH tested at subcontracted lab.

Rush Fees: 24 hour TAT/ Holiday Fee=4X Price; 48 hour TAT=3X Price; 3-5 days TAT = 2X Price

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Jennifer Sanchez **Guadalupe—Blanco River Authority** **933 East Court St.** **Seguin, TX 78155**	**Project Name:** **Sample ID: 230614.26-01** **Matrix: Liquid Sludge** **Date/Time Taken: 06/14/2023 1350**	**PCS Sample #: 723895 Page 1 of 1** **Date/Time Received: 06/14/2023 16:25** **Report Date: 06/27/2023** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
RCRA 8 Metals	See Attached				DHL	
TCLP-Full	See Attached				DHL	
PCB, Total	See Attached				DHL	

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

Web Site: www.pcslab.net
eMail: chuck@pcslab.net
Toll Free 800-880-4616
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
210-340-0343
FAX # 210-658-7903

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723895

Chain of Custody

Guadalupe Blanco River Authority- Regional Laboratory

933 E. Court Street, Seguin, Texas 78155

(830) 379-5822 fax: (830) 379-7478

Customer Information

Customer Acct.#

Name: **GBRA** Kylie Gudgell

Address: 933 East Court St

Seguin, TX 78155

Sample Collected By:

Signature

Thermometer No.

RUSH Due Date:____ by NOON

Billing Address labsubinvoices@gbra.org

Phone # (830)379-5822 Fax #

E-mail: labreports@gbra.org ☑E-mail Only ☐Mail Only

Printed Name

Residual Chlorine (Total/Free) Results

pH Paper GBRA reagent no.

Temp C	Date Collected	Time Collected	WW=Wastewater DW=Drinking Water SW=Surface Water S=soil/sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample I.D.	Bottle I.D.#	pH	GBRA Preservation	Rush sample (2x, 3x, 4x)
	6/14/2023	13:50	S	2Quart-G	230614.26-01		G	TCLP, Metals, PCBs	723895				

Delivered By: Date/Time: 6/14/23 1625 **Received By:** Date/Time: 6.14.23 1625

Delivered By: Date/Time: **Received By:** Date/Time:

**Special Notes/Ship to:

Ice: (Y or N) Number of Containers Condition of Container(s): (intact)

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

2306188

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

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

Relinquished by: Lauren Wallgren
Date/Time: 06/15/2023 @ 1500
Received by: Lauren Wallgren
Date/Time: 6/16/23 0830 via Fedex

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
723895	06/14/2023	1350	~~TCLP~~ 8 Metals; PCB Total RCRA per Chuck W.	Ice	Std
723895	———	—	TCLP-Full 6/16/23 @		—

01

Page 9 of 38

Comments/Special Instructions: 5.9°C therm #78 no cust seal

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: Lauren Wallgren Date: 6-15-23

\\PCS-DC-2K16\aa\LIMS\Subout\723895.docx

DHL ANALYTICAL

June 26, 2023

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd. #100
Universal City, TX 78148
TEL: (210) 340-0343
FAX

Order No.: 2306188

RE: PCS 723895

Dear Chuck Wallgren:

DHL Analytical, Inc. received 1 sample(s) on 6/16/2023 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,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

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ORIGIN ID:NIRA
CHUCK WALL,GREN
1532 UNIVERSAL CITY BLVD.,#108
UNIVERSAL CITY, TX 78148
UNITED STATES US

(210) 340-0313

SHIP DATE: 15JUN23
ACTWGT: 33.00 LB
CAD: 112447368/INET4010
DIMS: 18x10x16 IN

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK
ROUND ROCK TX 78664
(512) 388-8222

REF:
INV:
PO:
DEPT:

FedEx Express

FRI - 16 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7724 6604 0290

44 BSMA

78664
TX-US AUS

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.

4

https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue 1/2

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: Pollution Control Services | Date Received: 6/16/2023

Work Order Number: 2306188 | Received by: GLK

Checklist completed by: _____ 6/16/2023 (Signature / Date) | Reviewed by: _____ 6/16/2023 (Initials / Date)

Carrier name: FedEx 1day

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 #
	Adjusted? _____		Checked by _____
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1
Temp °C	5.9
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: _____

Page 13 of 38

DHL Analytical, Inc. Date: *26-Jun-23*

CLIENT:	Pollution Control Services
Project:	PCS 723895
Lab Order:	2306188

CASE NARRATIVE

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

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and ASTM.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For PCB Analysis, the recovery of Aroclor 1260 for the Matrix Spike and Matrix Spike Duplicate (2306198-01 MS/MSD) was below the method control limits. This is flagged accordingly in the QC Summary Report. This aroclor was within method control limits in the associated LCS. No further corrective action was taken.

DHL Analytical, Inc.

Date: *26-Jun-23*

CLIENT: Pollution Control Services
Project: PCS 723895
Lab Order: 2306188

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recvd
2306188-01	723895		06/14/23 01:50 PM	06/16/2023

DHL Analytical, Inc.

Date: *26-Jun-23*

CLIENT:	Pollution Control Services	**Client Sample ID:**	723895
Project:	PCS 723895	**Lab ID:**	2306188-01
Project No:		**Collection Date:**	06/14/23 01:50 PM
Lab Order:	2306188	**Matrix:**	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **DEW**
Aroclor 1016	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1221	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1232	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1242	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1248	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1254	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Aroclor 1260	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Total PCB	<9.20	9.20	18.4		mg/Kg-dry	1	06/20/23 10:51 AM
Surr: Decachlorobiphenyl	76.8	0	58-125		%REC	1	06/20/23 10:51 AM
Surr: Tetrachloro-m-xylene	79.1	0	40-130		%REC	1	06/20/23 10:51 AM
TCLP HERBICIDES		**SW1311/8321B**					Analyst: **DMK**
2,4-D	<0.000860	0.000860	0.00258		mg/L	1	06/20/23 09:45 PM
Silvex (2,4,5-TP)	<0.000860	0.000860	0.00258		mg/L	1	06/20/23 09:45 PM
Surr: CPMBA	85.7	0	50-130		%REC	1	06/20/23 09:45 PM
Surr: DCAA	94.2	0	50-130		%REC	1	06/20/23 09:45 PM
TRACE METALS: ICP-MS - SOLID		**SW6020B**					Analyst: **SP**
Arsenic	<17.1	17.1	34.2		mg/Kg-dry	5	06/22/23 11:55 AM
Barium	62.7	17.1	68.4	J	mg/Kg-dry	5	06/22/23 11:55 AM
Cadmium	<3.42	3.42	10.3		mg/Kg-dry	5	06/22/23 11:55 AM
Chromium	<17.1	17.1	68.4		mg/Kg-dry	5	06/22/23 11:55 AM
Lead	3.56	3.42	10.3	J	mg/Kg-dry	5	06/22/23 11:55 AM
Selenium	<5.13	5.13	17.1		mg/Kg-dry	5	06/22/23 11:55 AM
Silver	<3.42	3.42	6.84		mg/Kg-dry	5	06/22/23 11:55 AM
MERCURY TOTAL: SOIL/SOLID		**SW7471B**					Analyst: **CMC**
Mercury	<0.571	0.571	1.43		mg/Kg-dry	1	06/22/23 11:53 AM
TCLP MERCURY		**SW1311/7470A**					Analyst: **CMC**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	06/21/23 10:54 AM
TCLP METALS		**SW1311/6020B**					Analyst: **SP**
Arsenic	<0.0100	0.0100	0.0250		mg/L	1	06/21/23 02:40 PM
Barium	0.126	0.0150	0.0500		mg/L	1	06/21/23 02:40 PM
Cadmium	<0.00150	0.00150	0.00500		mg/L	1	06/21/23 02:40 PM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	06/21/23 02:40 PM
Lead	<0.00150	0.00150	0.00500		mg/L	1	06/21/23 02:40 PM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	06/21/23 02:40 PM
Silver	<0.00500	0.00500	0.0100		mg/L	1	06/21/23 02:40 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: *26-Jun-23*

CLIENT: Pollution Control Services
Project: PCS 723895
Project No:
Lab Order: 2306188

Client Sample ID: 723895
Lab ID: 2306188-01
Collection Date: 06/14/23 01:50 PM
Matrix: SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP PESTICIDES BY GC/MS		**SW1311/8270E**					Analyst: **DEW**
Chlordane	<0.000521	0.000521	0.00174		mg/L	1	06/21/23 05:31 PM
Endrin	<0.0000868	0.0000868	0.000260		mg/L	1	06/21/23 05:31 PM
gamma-BHC	<0.0000868	0.0000868	0.000260		mg/L	1	06/21/23 05:31 PM
Heptachlor	<0.0000868	0.0000868	0.000260		mg/L	1	06/21/23 05:31 PM
Heptachlor + epoxide	<0.0000868	0.0000868	0.000260		mg/L	1	06/21/23 05:31 PM
Heptachlor epoxide	<0.0000868	0.0000868	0.000260		mg/L	1	06/21/23 05:31 PM
Methoxychlor	<0.0000868	0.0000868	0.000434		mg/L	1	06/21/23 05:31 PM
Toxaphene	<0.00347	0.00347	0.0109		mg/L	1	06/21/23 05:31 PM
Surr: 2-Fluorobiphenyl	68.9	0	48-120		%REC	1	06/21/23 05:31 PM
Surr: 4-Terphenyl-d14	83.2	0	51-135		%REC	1	06/21/23 05:31 PM
TCLP SEMI-VOLATILES		**SW1311/8270E**					Analyst: **DEW**
1,4-Dichlorobenzene	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
2,4,5-Trichlorophenol	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
2,4,6-Trichlorophenol	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
2,4-Dinitrotoluene	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
2-Methylphenol	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
3&4-Methylphenol	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
Hexachlorobenzene	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
Hexachlorobutadiene	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
Hexachloroethane	<0.00947	0.00947	0.0379		mg/L	1	06/20/23 05:25 PM
Nitrobenzene	<0.0189	0.0189	0.0379		mg/L	1	06/20/23 05:25 PM
Pentachlorophenol	<0.0189	0.0189	0.0379		mg/L	1	06/20/23 05:25 PM
Pyridine	<0.0379	0.0379	0.0947		mg/L	1	06/20/23 05:25 PM
Surr: 2,4,6-Tribromophenol	94.0	0	42-124		%REC	1	06/20/23 05:25 PM
Surr: 2-Fluorobiphenyl	62.0	0	48-120		%REC	1	06/20/23 05:25 PM
Surr: 2-Fluorophenol	59.8	0	20-120		%REC	1	06/20/23 05:25 PM
Surr: 4-Terphenyl-d14	74.5	0	51-135		%REC	1	06/20/23 05:25 PM
Surr: Nitrobenzene-d5	72.5	0	41-120		%REC	1	06/20/23 05:25 PM
Surr: Phenol-d5	78.0	0	20-120		%REC	1	06/20/23 05:25 PM
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
1,1-Dichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
1,2-Dichloroethane	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
1,4-Dichlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
2-Butanone	<0.0500	0.0500	0.150		mg/L	10	06/23/23 12:35 PM
Benzene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Carbon tetrachloride	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Chlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: *26-Jun-23*

CLIENT: Pollution Control Services
Project: PCS 723895
Project No:
Lab Order: 2306188

Client Sample ID: 723895
Lab ID: 2306188-01
Collection Date: 06/14/23 01:50 PM
Matrix: SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
Chloroform	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Hexachlorobutadiene	<0.0100	0.0100	0.0300		mg/L	10	06/23/23 12:35 PM
Tetrachloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Trichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Vinyl chloride	<0.00300	0.00300	0.0100		mg/L	10	06/23/23 12:35 PM
Surr: 1,2-Dichloroethane-d4	95.7	0	72-119		%REC	10	06/23/23 12:35 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	10	06/23/23 12:35 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	10	06/23/23 12:35 PM
Surr: Toluene-d8	94.2	0	81-120		%REC	10	06/23/23 12:35 PM
PERCENT MOISTURE		**D2216**					Analyst: **SMA**
Percent Moisture	97.6	0	0		WT%	1	06/21/23 07:59 AM

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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: *26-Jun-23*

CLIENT: Pollution Control Services
Work Order: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_230620A

The QC data in batch 110731 applies to the following samples: 2306188-01B

Sample ID: LCS-110731	Batch ID: 110731	TestNo: SW8082A	Units: mg/Kg
SampType: LCS	Run ID: GC16_230620A	Analysis Date: 6/20/2023 9:35:00 AM	Prep Date: 6/19/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.775	0.100	1.000	0	77.5	41	138			
Aroclor 1260	0.749	0.100	1.000	0	74.9	61	131			
Total PCB	1.52	0.100	2.000	0	76.2	41	138			
Surr: Decachlorobiphenyl	0.0883		0.1000		88.3	58	125			
Surr: Tetrachloro-m-xylene	0.0901		0.1000		90.1	40	130			

Sample ID: MB-110731	Batch ID: 110731	TestNo: SW8082A	Units: mg/Kg
SampType: MBLK	Run ID: GC16_230620A	Analysis Date: 6/20/2023 10:00:00 AM	Prep Date: 6/19/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.0500	0.100								
Aroclor 1221	<0.0500	0.100								
Aroclor 1232	<0.0500	0.100								
Aroclor 1242	<0.0500	0.100								
Aroclor 1248	<0.0500	0.100								
Aroclor 1254	<0.0500	0.100								
Aroclor 1260	<0.0500	0.100								
Total PCB	<0.0500	0.100								
Surr: Decachlorobiphenyl	0.0886		0.1000		88.6	58	125			
Surr: Tetrachloro-m-xylene	0.0908		0.1000		90.8	40	130			

Sample ID: 2306198-01AMSD	Batch ID: 110731	TestNo: SW8082A	Units: mg/Kg-dry
SampType: MSD	Run ID: GC16_230620A	Analysis Date: 6/20/2023 12:07:00 PM	Prep Date: 6/19/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.584	0.105	1.048	0	55.7	41	138	10.2	50	
Aroclor 1260	0.558	0.105	1.048	0	53.3	61	131	10.3	50	S
Total PCB	1.14	0.105	2.095	0	54.5	41	138	10.2	50	
Surr: Decachlorobiphenyl	0.0771		0.1048		73.6	58	125	0		
Surr: Tetrachloro-m-xylene	0.0700		0.1048		66.9	40	130	0		

Sample ID: 2306198-01AMS	Batch ID: 110731	TestNo: SW8082A	Units: mg/Kg-dry
SampType: MS	Run ID: GC16_230620A	Analysis Date: 6/20/2023 2:18:00 PM	Prep Date: 6/19/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.527	0.103	1.033	0	51.0	41	138			
Aroclor 1260	0.504	0.103	1.033	0	48.7	61	131			S
Total PCB	1.03	0.103	2.067	0	49.9	41	138			
Surr: Decachlorobiphenyl	0.0684		0.1033		66.2	58	125			

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_230620A

Sample ID: 2306198-01AMS	Batch ID: 110731	TestNo: SW8032A	Units: mg/Kg-dry
SampType: MS	Run ID: GC16_230620A	Analysis Date: 6/20/2023 2:18:00 PM	Prep Date: 6/19/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	0.0614		0.1033		59.5	40	130			

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: Poilution Control Services
Work Order: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_230620B

The QC data in batch 110762 applies to the following samples: 2306188-01A

Sample ID: **MB-110762** Batch ID: **110762** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MBLK** Run ID: **LCMS2_230620B** Analysis Date: **6/20/2023 7:55:43 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	<0.000100	0.000300								
Silvex (2,4,5-TP)	<0.000100	0.000300								
Surr: CPMBA	0.00159		0.002200		72.4	50	130			
Surr: DCAA	0.00198		0.002200		90.2	50	130			

Sample ID: **MB-110713-TCLP** Batch ID: **110762** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MBLK** Run ID: **LCMS2_230620B** Analysis Date: **6/20/2023 8:14:05 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	<0.000764	0.00229								
Silvex (2,4,5-TP)	<0.000764	0.00229								
Surr: CPMBA	0.0133		0.01681		78.9	50	130			
Surr: DCAA	0.0156		0.01681		92.7	50	130			

Sample ID: **LCS-110762** Batch ID: **110762** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **LCS** Run ID: **LCMS2_230620B** Analysis Date: **6/20/2023 8:32:26 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.00149	0.000300	0.002200	0	67.9	39	120			
Silvex (2,4,5-TP)	0.00161	0.000300	0.002200	0	73.1	49	126			
Surr: CPMBA	0.00178		0.002200		80.8	50	130			
Surr: DCAA	0.00213		0.002200		96.8	50	130			

Sample ID: **2306187-01AMS** Batch ID: **110762** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MS** Run ID: **LCMS2_230620B** Analysis Date: **6/20/2023 8:50:48 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0145	0.00268	0.01968	0	73.5	39	120			
Silvex (2,4,5-TP)	0.0151	0.00268	0.01968	0	76.6	49	126			
Surr: CPMBA	0.0155		0.01968		78.9	50	130			
Surr: DCAA	0.0174		0.01968		88.3	50	130			

Sample ID: **2306187-01AMSD** Batch ID: **110762** TestNo: **SW1311/8321B** Units: **mg/L**
SampType: **MSD** Run ID: **LCMS2_230620B** Analysis Date: **6/20/2023 9:09:11 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0130	0.00245	0.01793	0	72.8	39	120	10.3	30	
Silvex (2,4,5-TP)	0.0136	0.00245	0.01793	0	75.6	49	126	10.6	30	
Surr: CPMBA	0.0146		0.01793		81.3	50	130	0	0	
Surr: DCAA	0.0169		0.01793		94.5	50	130	0	30	

Qualifiers:
- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL
- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230621A

The QC data in batch 110763 applies to the following samples: 2306188-01A

Sample ID: MB-110763	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:29:37 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID: MB-TCLP-110712	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:31:53 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100								

Sample ID: LCS-110763	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: LCS	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:34:09 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00188	0.000200	0.002000	0	94.0	85	115			

Sample ID: LCSD-110763	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: LCSD	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:36:25 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.002000	0	99.0	85	115	5.18	15	

Sample ID: 2306187-01AMS	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: MS	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:45:30 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0101	0.00100	0.01000	0	101	80	120			

Sample ID: 2306187-01AMSD	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: MSD	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:47:46 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0101	0.00100	0.01000	0	101	80	120	0	15	

Sample ID: 2306187-01ASD	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L
SampType: SD	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:50:02 AM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.00200	0.00500	0	0				0	10	

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230621A

Sample ID: 2306187-01APDS	Batch ID: 110763	TestNo: SW1311/7470A	Units: mg/L				
SampType: PDS	Run ID: CETAC2_HG_230621A	Analysis Date: 6/21/2023 10:52:18 AM	Prep Date: 6/20/2023				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0118	0.00100	0.01250	0	94.4	85	115			

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230622B

The QC data in batch 110766 applies to the following samples: 2306188-01B

Sample ID: MB-110766	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg
SampType: MBLK	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:24:00 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID: LCS-110766	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg
SampType: LCS	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:26:16 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.214	0.0400	0.2000	0	107	85	115			

Sample ID: LCSD-110766	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg
SampType: LCSD	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:28:32 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.213	0.0400	0.2000	0	106	85	115	0.468	25	

Sample ID: 2306186-01BMS	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:35:23 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.189	0.0376	0.1880	0	100	80	120			

Sample ID: 2306186-01BMSD	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:37:39 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.191	0.0375	0.1876	0	102	80	120	1.27	25	

Sample ID: 2306186-01BSD	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg-dry
SampType: SD	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:39:54 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0756	0.189	0	0				0	10	

Sample ID: 2306186-01BPDS	Batch ID: 110766	TestNo: SW7471B	Units: mg/Kg-dry
SampType: PDS	Run ID: CETAC2_HG_230622B	Analysis Date: 6/22/2023 11:42:10 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.231	0.0378	0.2364	0	97.6	85	115			

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_230621A

The QC data in batch 110749 applies to the following samples: 2306188-01A

Sample ID: MB-110749 Batch ID: 110749 TestNo: SW1311/6020B Units: mg/L
SampType: MBLK Run ID: ICP-MS4_230621A Analysis Date: 6/21/2023 2:22:00 PM Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								

Sample ID: MB-110712-TCLP Batch ID: 110749 TestNo: SW1311/6020B Units: mg/L
SampType: MBLK Run ID: ICP-MS4_230621A Analysis Date: 6/21/2023 2:24:00 PM Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0100	0.0250								
Barium	<0.0150	0.0500								
Cadmium	<0.00150	0.00500								
Chromium	<0.0100	0.0250								
Lead	<0.00150	0.00500								
Selenium	<0.0100	0.0250								
Silver	<0.00500	0.0100								

Sample ID: LCS-110749 Batch ID: 110749 TestNo: SW1311/6020B Units: mg/L
SampType: LCS Run ID: ICP-MS4_230621A Analysis Date: 6/21/2023 2:26:00 PM Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.199	0.00500	0.2000	0	99.5	80	120			
Barium	0.207	0.0100	0.2000	0	103	80	120			
Cadmium	0.205	0.00100	0.2000	0	103	80	120			
Chromium	0.200	0.00500	0.2000	0	100	80	120			
Lead	0.188	0.00100	0.2000	0	93.8	80	120			
Selenium	0.204	0.00500	0.2000	0	102	80	120			
Silver	0.202	0.00200	0.2000	0	101	80	120			

Sample ID: LCSD-110749 Batch ID: 110749 TestNo: SW1311/6020B Units: mg/L
SampType: LCSD Run ID: ICP-MS4_230621A Analysis Date: 6/21/2023 2:28:00 PM Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.196	0.00500	0.2000	0	97.8	80	120	1.67	15	
Barium	0.202	0.0100	0.2000	0	101	80	120	2.37	15	
Cadmium	0.202	0.00100	0.2000	0	101	80	120	1.59	15	
Chromium	0.199	0.00500	0.2000	0	99.3	80	120	0.780	15	

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_230621A

Sample ID: LCSD-110749	Batch ID: 110749	TestNo: SW1311/6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS4_230621A	Analysis Date: 6/21/2023 2:28:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.190	0.00100	0.2000	0	95.1	80	120	1.33	15	
Selenium	0.200	0.00500	0.2000	0	100	80	120	2.13	15	
Silver	0.200	0.00200	0.2000	0	99.9	80	120	1.11	15	

Sample ID: 2306187-01A SD	Batch ID: 110749	TestNo: SW1311/6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS4_230621A	Analysis Date: 6/21/2023 2:34:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.0500	0.125	0	0				0	20	
Barium	0.147	0.250	0	0.1456				0.971	20	
Cadmium	<0.00750	0.0250	0	0				0	20	
Chromium	<0.0500	0.125	0	0				0	20	
Lead	<0.00750	0.0250	0	0.002910				0	20	
Selenium	<0.0500	0.125	0	0				0	20	
Silver	<0.0250	0.0500	0	0				0	20	

Sample ID: 2306187-01A PDS	Batch ID: 110749	TestNo: SW1311/6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS4_230621A	Analysis Date: 6/21/2023 2:48:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.978	0.0250	1.000	0	97.8	75	125			
Barium	1.13	0.0500	1.000	0.1456	98.8	75	125			
Cadmium	0.975	0.00500	1.000	0	97.5	75	125			
Chromium	0.954	0.0250	1.000	0	95.4	75	125			
Lead	0.926	0.00500	1.000	0.002910	92.3	75	125			
Selenium	0.990	0.0250	1.000	0	99.0	75	125			
Silver	0.945	0.0100	1.000	0	94.5	75	125			

Sample ID: 2306187-01A MS	Batch ID: 110749	TestNo: SW1311/6020B	Units: mg/L
SampType: MS	Run ID: ICP-MS4_230621A	Analysis Date: 6/21/2023 2:48:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.00	0.0250	1.000	0	100	75	125			
Barium	1.16	0.0500	1.000	0.1456	101	75	125			
Cadmium	0.990	0.00500	1.000	0	99.0	75	125			
Chromium	0.968	0.0250	1.000	0	96.8	75	125			
Lead	0.955	0.00500	1.000	0.002910	95.2	75	125			
Selenium	1.01	0.0250	1.000	0	101	75	125			
Silver	0.957	0.0100	1.000	0	95.7	75	125			

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_230621A

Sample ID: **2306187-01A MSD**	Batch ID: **110749**	TestNo: **SW1311/6020B**	Units: **mg/L**				
SampType: **MSD**	Run ID: **ICP-MS4_230621A**	Analysis Date: **6/21/2023 2:50:00 PM**	Prep Date: **6/21/2023**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.999	0.0250	1.000	0	99.9	75	125	0.085	15	
Barium	1.17	0.0500	1.000	0.1456	103	75	125	1.17	15	
Cadmium	0.990	0.00500	1.000	0	99.0	75	125	0.065	15	
Chromium	0.969	0.0250	1.000	0	96.9	75	125	0.165	15	
Lead	0.973	0.00500	1.000	0.002910	97.0	75	125	1.82	15	
Selenium	1.00	0.0250	1.000	0	100	75	125	1.18	15	
Silver	0.959	0.0100	1.000	0	95.9	75	125	0.117	15	

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230622A

The QC data in batch 110779 applies to the following samples: 2306188-01B

Sample ID: **MB-110779** Batch ID: **110779** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_230622A** Analysis Date: **6/22/2023 11:37:00 AM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Lead	<0.100	0.300								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								

Sample ID: **LCS-110779** Batch ID: **110779** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_230622A** Analysis Date: **6/22/2023 11:40:00 AM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	49.7	1.00	50.00	0	99.4	80	120			
Barium	50.0	2.00	50.00	0	100	80	120			
Cadmium	50.2	0.300	50.00	0	100	80	120			
Chromium	50.9	2.00	50.00	0	102	80	120			
Lead	49.9	0.300	50.00	0	99.7	80	120			
Selenium	48.5	0.500	50.00	0	97.1	80	120			
Silver	49.7	0.200	50.00	0	99.4	80	120			

Sample ID: **LCSD-110779** Batch ID: **110779** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_230622A** Analysis Date: **6/22/2023 11:42:00 AM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	49.8	1.00	50.00	0	99.6	80	120	0.204	25	
Barium	50.4	2.00	50.00	0	101	80	120	0.877	25	
Cadmium	50.1	0.300	50.00	0	100	80	120	0.200	25	
Chromium	50.8	2.00	50.00	0	102	80	120	0.196	25	
Lead	49.6	0.300	50.00	0	99.3	80	120	0.459	25	
Selenium	48.7	0.500	50.00	0	97.4	80	120	0.352	25	
Silver	49.9	0.200	50.00	0	99.7	80	120	0.295	25	

Sample ID: **2306186-03B SD** Batch ID: **110779** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS5_230622A** Analysis Date: **6/22/2023 11:50:00 AM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	8.70	4.70	0	8.339				4.20	20	
Barium	46.1	9.41	0	45.89				0.481	20	
Cadmium	<0.470	1.41	0	0				0	20	
Chromium	13.7	9.41	0	13.09				4.89	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL
- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230622A

Sample ID: 2306186-03B SD	Batch ID: 110779	TestNo: SW6020B	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS5_230622A	Analysis Date: 6/22/2023 11:50:00 AM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	5.15	1.41	0	5.247				1.91	20	
Selenium	<0.706	2.35	0	0.2345				0	20	
Silver	<0.470	0.941	0	0				0	20	

Sample ID: 2306186-03B PDS	Batch ID: 110779	TestNo: SW6020B	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS5_230622A	Analysis Date: 6/22/2023 12:16:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	54.2	0.941	47.03	8.339	97.6	75	125			
Barium	95.4	1.88	47.03	45.89	105	75	125			
Cadmium	46.5	0.282	47.03	0	98.8	75	125			
Chromium	60.2	1.88	47.03	13.09	100	75	125			
Lead	52.5	0.282	47.03	5.247	100	75	125			
Selenium	42.5	0.470	47.03	0.2345	89.9	75	125			
Silver	46.8	0.188	47.03	0	99.5	75	125			

Sample ID: 2306186-03B MS	Batch ID: 110779	TestNo: SW6020B	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS5_230622A	Analysis Date: 6/22/2023 12:18:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	56.4	0.949	47.46	8.339	101	75	125			
Barium	100	1.90	47.46	45.89	114	75	125			
Cadmium	46.1	0.285	47.46	0	97.1	75	125			
Chromium	63.1	1.90	47.46	13.09	105	75	125			
Lead	52.6	0.285	47.46	5.247	99.9	75	125			
Selenium	42.7	0.475	47.46	0.2345	89.4	75	125			
Silver	46.0	0.190	47.46	0	97.0	75	125			

Sample ID: 2306186-03B MSD	Batch ID: 110779	TestNo: SW6020B	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS5_230622A	Analysis Date: 6/22/2023 12:21:00 PM	Prep Date: 6/21/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	57.1	0.949	47.46	8.339	103	75	125	1.33	25	
Barium	105	1.90	47.46	45.89	125	75	125	5.01	25	
Cadmium	46.6	0.285	47.46	0	98.1	75	125	1.05	25	
Chromium	64.1	1.90	47.46	13.09	107	75	125	1.46	25	
Lead	53.6	0.285	47.46	5.247	102	75	125	1.70	25	
Selenium	42.8	0.475	47.46	0.2345	89.8	75	125	0.426	25	
Silver	46.6	0.190	47.46	0	98.2	75	125	1.24	25	

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_230621A

The QC data in batch 110774 applies to the following samples: 2306188-01A

Sample ID: **LCS-110774** Batch ID: **110774** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS10_230621A** Analysis Date: **6/21/2023 3:11:00 PM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000479	0.0000300	0.0004000	0	120	55	135			
gamma-BHC	0.000314	0.0000300	0.0004000	0	78.4	25	135			
Heptachlor	0.000357	0.0000300	0.0004000	0	89.2	40	130			
Heptachlor + epoxide	0.000720	0.0000300	0.0008000	0	90.0	40	130			
Heptachlor epoxide	0.000363	0.0000300	0.0004000	0	90.8	60	130			
Methoxychlor	0.000428	0.0000500	0.0004000	0	107	55	150			
Surr: 2-Fluorobiphenyl	0.00300		0.004000		74.9	48	120			
Surr: 4-Terphenyl-d14	0.00350		0.004000		87.5	51	135			

Sample ID: **MB-110774** Batch ID: **110774** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS10_230621A** Analysis Date: **6/21/2023 4:21:00 PM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	<0.0000600	0.000200								
Endrin	<0.0000100	0.0000300								
gamma-BHC	<0.0000100	0.0000300								
Heptachlor	<0.0000100	0.0000300								
Heptachlor + epoxide	<0.0000100	0.0000300								
Heptachlor epoxide	<0.0000100	0.0000300								
Methoxychlor	<0.0000100	0.0000500								
Toxaphene	<0.000400	0.00125								
Surr: 2-Fluorobiphenyl	0.00293		0.004000		73.3	48	120			
Surr: 4-Terphenyl-d14	0.00348		0.004000		87.0	51	135			

Sample ID: **2306187-01AMS** Batch ID: **110774** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MS** Run ID: **GCMS10_230621A** Analysis Date: **6/21/2023 6:41:00 PM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00474	0.000292	0.003891	0	122	55	135			
gamma-BHC	0.00306	0.000292	0.003891	0	78.7	25	135			
Heptachlor	0.00362	0.000292	0.003891	0	93.0	40	130			
Heptachlor + epoxide	0.00729	0.000292	0.007782	0	93.7	40	130			
Heptachlor epoxide	0.00367	0.000292	0.003891	0	94.4	60	130			
Methoxychlor	0.00395	0.000486	0.003891	0	102	55	150			
Surr: 2-Fluorobiphenyl	0.0289		0.03891		74.2	48	120			
Surr: 4-Terphenyl-d14	0.0333		0.03891		85.7	51	135			

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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_230621A

Sample ID: **2306187-01AMSD** Batch ID: **110774** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS10_230621A** Analysis Date: **6/21/2023 7:16:00 PM** Prep Date: **6/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.00454	0.000273	0.003643	0	125	55	135	4.33	30	
gamma-BHC	0.00273	0.000273	0.003643	0	75.0	25	135	11.4	30	
Heptachlor	0.00341	0.000273	0.003643	0	93.6	40	130	5.93	30	
Heptachlor + epoxide	0.00663	0.000273	0.007286	0	91.0	40	130	9.53	30	
Heptachlor epoxide	0.00322	0.000273	0.003643	0	88.4	60	130	13.2	30	
Methoxychlor	0.00365	0.000455	0.003643	0	100	55	150	7.90	30	
Surr: 2-Fluorobiphenyl	0.0258		0.03643		70.7	48	120	0	0	
Surr: 4-Terphenyl-d14	0.0308		0.03643		84.6	51	135	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230620B

The QC data in batch 110746 applies to the following samples: 2306188-01A

Sample ID: **LCS-110746** Batch ID: **110746** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_230620B** Analysis Date: **6/20/2023 2:27:00 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0265	0.00400	0.04000	0	66.2	30	125			
2,4,5-Trichlorophenol	0.0364	0.00400	0.04000	0	91.0	49	120			
2,4,6-Trichlorophenol	0.0353	0.00400	0.04000	0	88.4	49	126			
2,4-Dinitrotoluene	0.0380	0.00400	0.04000	0	94.9	51	120			
2-Methylphenol	0.0334	0.00400	0.04000	0	83.6	38	120			
3&4-Methylphenol	0.0341	0.00400	0.04000	0	85.2	32	120			
Hexachlorobenzene	0.0325	0.00400	0.04000	0	81.4	52	120			
Hexachlorobutadiene	0.0254	0.00400	0.04000	0	63.4	27	120			
Hexachloroethane	0.0252	0.00400	0.04000	0	63.0	28	120			
Nitrobenzene	0.0347	0.00400	0.04000	0	86.6	44	120			
Pentachlorophenol	0.0325	0.00400	0.04000	0	81.4	38	120			
Pyridine	0.0112	0.0100	0.04000	0	28.1	20	120			
Surr: 2,4,6-Tribromophenol	0.0792		0.08000		99.0	42	124			
Surr: 2-Fluorobiphenyl	0.0588		0.08000		73.5	48	120			
Surr: 2-Fluorophenol	0.0560		0.08000		70.0	20	120			
Surr: 4-Terphenyl-d14	0.0614		0.08000		76.8	51	135			
Surr: Nitrobenzene-d5	0.0670		0.08000		83.8	41	120			
Surr: Phenol-d5	0.0466		0.08000		58.2	20	120			

Sample ID: **MB-110746** Batch ID: **110746** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS9_230620B** Analysis Date: **6/20/2023 3:11:00 PM** Prep Date: **6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	<0.00100	0.00400								
2,4,5-Trichlorophenol	<0.00100	0.00400								
2,4,6-Trichlorophenol	<0.00100	0.00400								
2,4-Dinitrotoluene	<0.00100	0.00400								
2-Methylphenol	<0.00100	0.00400								
3&4-Methylphenol	<0.00100	0.00400								
Hexachlorobenzene	<0.00100	0.00400								
Hexachlorobutadiene	<0.00100	0.00400								
Hexachloroethane	<0.00100	0.00400								
Nitrobenzene	<0.00200	0.00400								
Pentachlorophenol	<0.00200	0.00400								
Pyridine	<0.00400	0.0100								
Surr: 2,4,6-Tribromophenol	0.0776		0.08000		97.0	42	124			
Surr: 2-Fluorobiphenyl	0.0546		0.08000		68.2	48	120			
Surr: 2-Fluorophenol	0.0492		0.08000		61.5	20	120			
Surr: 4-Terphenyl-d14	0.0614		0.08000		76.8	51	135			
Surr: Nitrobenzene-d5	0.0642		0.08000		80.3	41	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230620B

Sample ID: MB-110746	Batch ID: 110746	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230620B	Analysis Date: 6/20/2023 3:11:00 PM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d5	0.0368		0.08000		46.0	20	120			

Sample ID: MB-110713-TCLP	Batch ID: 110746	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230620B	Analysis Date: 6/20/2023 3:33:00 PM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	<0.00888	0.0355								
2,4,5-Trichlorophenol	<0.00888	0.0355								
2,4,6-Trichlorophenol	<0.00888	0.0355								
2,4-Dinitrotoluene	<0.00888	0.0355								
2-Methylphenol	<0.00888	0.0355								
3&4-Methylphenol	<0.00888	0.0355								
Hexachlorobenzene	<0.00888	0.0355								
Hexachlorobutadiene	<0.00888	0.0355								
Hexachloroethane	<0.00888	0.0355								
Nitrobenzene	<0.0178	0.0355								
Pentachlorophenol	<0.0178	0.0355								
Pyridine	<0.0355	0.0888								
Surr: 2,4,6-Tribromophenol	0.741		0.7105		104	42	124			
Surr: 2-Fluorobiphenyl	0.513		0.7105		72.2	48	120			
Surr: 2-Fluorophenol	0.590		0.7105		83.0	20	120			
Surr: 4-Terphenyl-d14	0.574		0.7105		80.8	51	135			
Surr: Nitrobenzene-d5	0.618		0.7105		87.0	41	120			
Surr: Phenol-d5	0.611		0.7105		86.0	20	120			

Sample ID: 2306121-01CMS	Batch ID: 110746	TestNo: SW1311/8270E	Units: mg/L
SampType: MS	Run ID: GCMS9_230620B	Analysis Date: 6/20/2023 5:47:00 PM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.235	0.0369	0.3690	0	63.8	30	125			
2,4,5-Trichlorophenol	0.327	0.0369	0.3690	0	88.7	49	120			
2,4,6-Trichlorophenol	0.322	0.0369	0.3690	0	87.2	49	126			
2,4-Dinitrotoluene	0.335	0.0369	0.3690	0	90.9	51	120			
2-Methylphenol	0.323	0.0369	0.3690	0	87.4	38	120			
3&4-Methylphenol	0.329	0.0369	0.3690	0	89.0	32	120			
Hexachlorobenzene	0.297	0.0369	0.3690	0	80.4	52	120			
Hexachlorobutadiene	0.221	0.0369	0.3690	0	59.8	27	120			
Hexachloroethane	0.220	0.0369	0.3690	0	59.5	28	120			
Nitrobenzene	0.325	0.0369	0.3690	0	88.0	44	120			
Pentachlorophenol	0.292	0.0369	0.3690	0	79.0	38	120			
Pyridine	0.207	0.0923	0.3690	0	56.2	20	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230620B

Sample ID: 2306121-01CMS	Batch ID: 110746	TestNo: SW1311/8270E	Units: mg/L
SampType: MS	Run ID: GCMS9_230620B	Analysis Date: 6/20/2023 5:47:00 PM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	0.720		0.7380		97.5	42	124			
Surr: 2-Fluorobiphenyl	0.524		0.7380		71.0	48	120			
Surr: 2-Fluorophenol	0.614		0.7380		83.2	20	120			
Surr: 4-Terphenyl-d14	0.554		0.7380		75.0	51	135			
Surr: Nitrobenzene-d5	0.627		0.7380		85.0	41	120			
Surr: Phenol-d5	0.624		0.7380		84.5	20	120			

Sample ID: 2306121-01CMSD	Batch ID: 110746	TestNo: SW1311/8270E	Units: mg/L
SampType: MSD	Run ID: GCMS9_230620B	Analysis Date: 6/20/2023 6:10:00 PM	Prep Date: 6/20/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.252	0.0375	0.3745	0	67.4	30	125	7.05	20	
2,4,5-Trichlorophenol	0.338	0.0375	0.3745	0	90.3	49	120	3.27	20	
2,4,6-Trichlorophenol	0.327	0.0375	0.3745	0	87.4	49	126	1.72	20	
2,4-Dinitrotoluene	0.350	0.0375	0.3745	0	93.6	51	120	4.41	20	
2-Methylphenol	0.327	0.0375	0.3745	0	87.2	38	120	1.32	20	
3&4-Methylphenol	0.334	0.0375	0.3745	0	89.1	32	120	1.54	20	
Hexachlorobenzene	0.304	0.0375	0.3745	0	81.1	52	120	2.29	20	
Hexachlorobutadiene	0.243	0.0375	0.3745	0	64.8	27	120	9.43	20	
Hexachloroethane	0.240	0.0375	0.3745	0	64.0	28	120	8.69	20	
Nitrobenzene	0.334	0.0375	0.3745	0	89.2	44	120	2.73	20	
Pentachlorophenol	0.304	0.0375	0.3745	0	81.2	38	120	4.17	20	
Pyridine	0.220	0.0938	0.3745	0	58.7	20	120	5.84	20	
Surr: 2,4,6-Tribromophenol	0.740		0.7491		98.8	42	124	0	0	
Surr: 2-Fluorobiphenyl	0.543		0.7491		72.5	48	120	0	0	
Surr: 2-Fluorophenol	0.631		0.7491		84.2	20	120	0	0	
Surr: 4-Terphenyl-d14	0.575		0.7491		76.8	51	135	0	0	
Surr: Nitrobenzene-d5	0.646		0.7491		86.2	41	120	0	0	
Surr: Phenol-d5	0.631		0.7491		84.2	20	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_230623B

The QC data in batch 110824 applies to the following samples: 2306188-01A

Sample ID: **LCS-110824** Batch ID: **110824** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_230623B** Analysis Date: **6/23/2023 10:47:00 AM** Prep Date: **6/23/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0252	0.00100	0.02320	0	109	68	130			
1,2-Dichloroethane	0.0238	0.00100	0.02320	0	102	69	132			
1,4-Dichlorobenzene	0.0224	0.00100	0.02320	0	96.6	74	123			
2-Butanone	0.109	0.0150	0.1160	0	94.3	49	136			
Benzene	0.0260	0.00100	0.02320	0	112	81	122			
Carbon tetrachloride	0.0255	0.00100	0.02320	0	110	66	138			
Chlorobenzene	0.0235	0.00100	0.02320	0	101	81	122			
Chloroform	0.0252	0.00100	0.02320	0	109	69	128			
Hexachlorobutadiene	0.0230	0.00300	0.02320	0	99.3	67	131			
Tetrachloroethene	0.0242	0.00100	0.02320	0	104	66	126			
Trichloroethene	0.0261	0.00100	0.02320	0	113	70	127			
Vinyl chloride	0.0199	0.00100	0.02320	0	85.6	50	134			
Surr: 1,2-Dichloroethane-d4	0.184		0.2000		92.2	72	119			
Surr: 4-Bromofluorobenzene	0.187		0.2000		93.3	76	119			
Surr: Dibromofluoromethane	0.201		0.2000		101	85	115			
Surr: Toluene-d8	0.187		0.2000		93.4	81	120			

Sample ID: **MB-110824** Batch ID: **110824** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_230623B** Analysis Date: **6/23/2023 11:46:00 AM** Prep Date: **6/23/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,4-Dichlorobenzene	<0.000300	0.00100								
2-Butanone	<0.00500	0.0150								
Benzene	<0.000300	0.00100								
Carbon tetrachloride	<0.000300	0.00100								
Chlorobenzene	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Hexachlorobutadiene	<0.00100	0.00300								
Tetrachloroethene	<0.000300	0.00100								
Trichloroethene	<0.000300	0.00100								
Vinyl chloride	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	0.192		0.2000		96.0	72	119			
Surr: 4-Bromofluorobenzene	0.202		0.2000		101	76	119			
Surr: Dibromofluoromethane	0.204		0.2000		102	85	115			
Surr: Toluene-d8	0.185		0.2000		92.4	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_230623B

Sample ID: 2306289-06AMS	Batch ID: 110824	TestNo: SW1311/8260D	Units: mg/L
SampType: MS	Run ID: GCMS7_230623B	Analysis Date: 6/23/2023 8:33:00 PM	Prep Date: 6/23/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0260	0.00100	0.02320	0	112	68	130			
1,2-Dichloroethane	0.0257	0.00100	0.02320	0	111	69	132			
1,4-Dichlorobenzene	0.0229	0.00100	0.02320	0	98.8	74	123			
2-Butanone	0.109	0.0150	0.1160	0	93.7	49	136			
Benzene	0.0268	0.00100	0.02320	0	116	81	122			
Carbon tetrachloride	0.0260	0.00100	0.02320	0	112	66	138			
Chlorobenzene	0.0240	0.00100	0.02320	0	103	81	122			
Chloroform	0.0262	0.00100	0.02320	0	113	69	128			
Hexachlorobutadiene	0.0216	0.00300	0.02320	0	93.1	67	131			
Tetrachloroethene	0.0242	0.00100	0.02320	0	104	66	128			
Trichloroethene	0.0270	0.00100	0.02320	0	116	70	127			
Vinyl chloride	0.0199	0.00100	0.02320	0	85.9	50	134			
Surr: 1,2-Dichloroethane-d4	0.199		0.2000		99.7	72	119			
Surr: 4-Bromofluorobenzene	0.189		0.2000		94.5	76	119			
Surr: Dibromofluoromethane	0.204		0.2000		102	85	115			
Surr: Toluene-d8	0.183		0.2000		91.3	81	120			

Sample ID: 2306289-06AMSD	Batch ID: 110824	TestNo: SW1311/8260D	Units: mg/L
SampType: MSD	Run ID: GCMS7_230623B	Analysis Date: 6/23/2023 8:58:00 PM	Prep Date: 6/23/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0241	0.00100	0.02320	0	104	68	130	7.61	20	
1,2-Dichloroethane	0.0244	0.00100	0.02320	0	105	69	132	5.23	20	
1,4-Dichlorobenzene	0.0208	0.00100	0.02320	0	89.9	74	123	9.41	20	
2-Butanone	0.109	0.0150	0.1160	0	94.2	49	136	0.587	20	
Benzene	0.0254	0.00100	0.02320	0	110	81	122	5.32	20	
Carbon tetrachloride	0.0247	0.00100	0.02320	0	106	66	138	5.01	20	
Chlorobenzene	0.0229	0.00100	0.02320	0	98.5	81	122	4.95	20	
Chloroform	0.0248	0.00100	0.02320	0	107	69	128	5.84	20	
Hexachlorobutadiene	0.0213	0.00300	0.02320	0	91.7	67	131	1.45	20	
Tetrachloroethene	0.0224	0.00100	0.02320	0	96.5	66	128	7.69	20	
Trichloroethene	0.0251	0.00100	0.02320	0	108	70	127	7.42	20	
Vinyl chloride	0.0189	0.00100	0.02320	0	81.3	50	134	5.52	20	
Surr: 1,2-Dichloroethane-d4	0.197		0.2000		98.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	0.190		0.2000		94.8	76	119	0	0	
Surr: Dibromofluoromethane	0.204		0.2000		102	85	115	0	0	
Surr: Toluene-d8	0.185		0.2000		92.3	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: 2306188
Project: PCS 723895

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_230620A

The QC data in batch 110770 applies to the following samples: 2306188-01B

Sample ID: **2306187-01B-DUP**	Batch ID: **110770**	TestNo: **D2216**		Units:	**WT%**
SampType: **DUP**	Run ID: **PMOIST_230620A**	Analysis Date: **6/21/2023 7:59:00 AM**		Prep Date:	**6/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	99.4	0	0	99.47				0.083	30	

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

PCS Sample No(s) 723895 **COC No.** 723895

Client/Company Name: GBRA **Checklist Completed by:** LMW

Sample Delivery to Lab Via:
Client Drop Off ✓ Commercial Carrier: Bus ____ UPS ____ Lone Star ____ FedEx ____ USPS ____
PCS Field Services: Collection/Pick Up ____ Other: ____

Sample Kit/Coolers
Sample Kit/Cooler? Yes ✓ No ____ Sample Kit/Cooler: Intact? Yes ✓ No ____
Custody Seals on Sample Kit/Cooler: Not Present ✓ If Present, Intact ____ Broken ____
Sample Containers Intact; Unbroken and Not Leaking? Yes ✓ No ____
Custody Seals on Sample Bottles: Not Present ✓ If Present, Intact ____ Broken ____
COC Present with Shipment or Delivery or Completed at Drop Off? Yes ✓ No ____
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes: ✓ No: ____
Has COC been properly Signed when Received/Relinquished? Yes ✓ No ____
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes ✓ No ____
All Samples Received before Hold Time Expiration? Yes ✓ No ____
Sufficient Sample Volumes for Analysis Requested? Yes ✓ No ____
Zero Headspace in VOA Vial? Yes ____ No ____

Sample Preservation:
* ***Cooling:*** **Not Required** ____ or **Required** ✓
If cooling required, record temperature of submitted samples Observed/Corrected 4 / 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: ____ Date ____ Time ____
pH paper used to check sample preservation (PCS log #): ____ (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: ____

Publish Date/Time: 7/26/2023 9:30 AM

Report of Analysis

For: **425067 - GBRA-Johnson Ranch WWTP**
933 E Court St
Seguin, TX 78155

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

[1] Parameter not available for NELAP accreditation at the GBRA
NA = not analyzed

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Publish Date/Time: 7/26/2023 9:30 AM

Lab Sample ID: 230621.13-01 **Collection Date/Time:** 6/21/2023 10:00 AM **Sample Matrix:** Solids

Site: Johnson Ranch Sludge **Receive Date/Time:** 6/21/2023 11:15 AM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1 Percent Total Solids	Subcontract	See Attached Report	%	1			6/7/2023 08:03 AM			
1 TCLP Arsenic	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Cadmium	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Chromium	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Lead	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Mercury	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Molybdenum	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Nickel	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Selenium	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 TCLP Zinc	Subcontract	See Attached Report	mg/L	1			6/30/2023 02:52 PM			
1 PCB-1016	Subcontract	See Attached Report		1			6/29/2023 04:24 PM			
1 TCLP gamma-BHC (Lindane)	Subcontract	See Attached Report	mg/L	1			6/29/2023 12:28 PM			
1 PCB-1221	Subcontract	See		1			6/29/2023 04:24 PM			

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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Seguin, TX 78155
(830)379-5822 ext 256

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Work Order: 230621.13

		Attached Report			
1 TCLP Chlordane	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 PCB-1232	Subcontract	See Attached Report		1	6/29/2023 04:24 PM
1 TCLP Endrin	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 PCB-1242	Subcontract	See Attached Report		1	6/29/2023 04:24 PM
1 TCLP Heptachlor	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 PCB-1248	Subcontract	See Attached Report		1	6/29/2023 04:24 PM
1 TCLP Heptachlor Epoxide	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 PCB-1254	Subcontract	See Attached Report		1	6/29/2023 04:24 PM
1 TCLP Methoxychlor	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 PCB-1260	Subcontract	See Attached Report		1	6/29/2023 04:24 PM
1 TCLP Toxaphene	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 TCLP 2,4 D	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 TCLP 2,4,5-TP (Silvex)	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1 TCLP Benzene	Subcontract	See	mg/L	1	6/29/2023 12:28 PM

1 Parameter not available for NELAP accreditation at the GBRA

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1	TCLP Carbon tetrachloride	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Chlorobenzene	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Chloroform	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Vinyl chloride	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP 3 and 4-Methylphenol (m and p-Cresol)	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Hexachlorobenzene	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Hexachlorobutadiene	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Hexachloroethane	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Nitrobenzene	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Pentachlorophenol	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM
1	TCLP Pyridine	Subcontract	See Attached Report	mg/L	1	6/29/2023 12:28 PM

[1] Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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Seguin, TX 78155
(830)379-5822 ext 256

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LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition			
%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments	
230621.13	N/A

[1] Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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Seguin, TX 78155
(830)379-5822 ext 256

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GBRA LAB
933 E. Court Street, Seguin, TX 78155
Phone: (830) 379-5822 Fax: (830) 379-7478

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

Customer Information

Customer Acct.#: 425067		RUSH Analysis : _____ by EOB (Additional Fees Apply)	
Name: GBRA-Johnson Ranch WWTP		Billing Address:	
Address:		Fax #:	
Phone #: 830-560-0446		Email 1:	choliday@gbra.org
Thermometer #: 24		Email 2:	hduncan@gbra.org
Receipt Temp (°C) Observed / Corrected: 4.5 | 4.5		Chlorine Strip GBRA Reagent #	Chlorine : Absent/ Present
Ice? Yes / No (Circle One)		pH Paper GBRA Reagent #:	
# of Containers: 2	Condition of Containers (Intact)/ Yes / No (Circle One)	Residual Chlorine (Total/Free) Results:	

Date Collected	Time Collected	Matrix WW=Wastewater DW=Drinking Water SW=Surface Water S=Soil/Sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	230621 13. GBRA Sample ID	pH	Type of Preservation	Rush sample (2x, 3x, 4x)
6.21.23	1000	S	2-Qrt G	Johnson Ranch Sludge		G	TCLP, Metals, PCBs ($)	01			

Sampler Name (Print): Cecil Holliday		Sampler Signature:	
Released by (Sampler):	Date/Time: 6.21.23 1115	Transferred To: CRAIK	Date/Time: 1115 6/21/23
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

Notes: $=Metals sent to subcontracted lab *=O&G pH tested at subcontracted lab. ($) sent to Subcontract Lab KH 6/21/23

Rush Fees: 24 hour TAT/ Holiday Fee=4X Price; 48 hour TAT=3X Price; 3-5 days TAT = 2X Price

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Jennifer Sanchez **Guadalupe—Blanco River Authority** **933 East Court St.** **Seguin, TX 78155**	**Project Name:** **Sample ID: 230621.13-01** **Matrix: Liquid Sludge** **Date/Time Taken: 06/21/2023 1000**	**PCS Sample #: 724728 Page 1 of 1** **Date/Time Received: 06/21/2023 16:10** **Report Date: 07/10/2023** Approved by: Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
503 Metals	See Attached				DHL	
TCLP-Full	See Attached				DHL	
PCB, Total	See Attached				DHL	

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

Web Site: www.pcslab.net
eMail: chuck@pcslab.net
Toll Free 800-880-4616
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
210-340-0343
FAX # 210-658-7903

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724728

Chain of Custody

Guadalupe Blanco River Authority- Regional Laboratory

933 E. Court Street, Seguin, Texas 78155

(830) 379-5822 fax: (830) 379-7478

GBRA LAB

NELAP ACCREDITED TNI LABORATORY

Customer Information

Customer Acct.# _____ **RUSH Due Date:** _____ **by EOB**

Name: **GBRA** Kylie Gudgell Billing Address labsubinvoices@gbra.org

Address: 933 East Court St Phone # (830)379-5822 Fax # _____

Seguin, TX 78155 E-mail: labreports@gbra.org ☐E-mail Only ☐Mail Only

Sample Collected By: _____

Signature Printed Name Residual Chlorine (Total/Free) Results _____

Thermometer No. _____ pH Paper GBRA reagent no. _____

Temp C	Date Collected	Time Collected	WW=Wastewater DW=Drinking Water SW=Surface Water S=soil/sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample I.D.	Bottle I.D.#	pH	GBRA Preservation	Rush sample (2x, 3x, 4x)
	6/21/2023	10:00	S	2-1Qt- G	230621.13-01		G	TCLP, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, PCBs, Selenium, Zinc	724728				

Delivered By: _____ **Date/Time:** 6/21/23 1610 **Received By:** _____ **Date/Time:** 6-21-23 1610

Delivered By: _____ **Date/Time:** _____ **Received By:** _____ **Date/Time:** _____

**Special Notes/Ship to: _____

Ice: _____(Y or N) Number of Containers_____ Condition of Container(s): (intact)_____

DHL ANALYTICAL

July 10, 2023

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd. #100
Universal City, TX 78148
TEL: (210) 340-0343
FAX:

Order No.: 2306292

RE: PCS 724728

Dear Chuck Wallgren:

DHL Analytical, Inc. received 1 sample(s) on 6/23/2023 for the analyses presented in the following report.

Revision Number 1 for Work Order 2306292: This revision consists of changing the target analyte list for per the client's request. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

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

2306292

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

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

Relinquished by: Lauren Wallgren
Date/Time: 06/22/2023 @ 1500
Received by: [signature]
Date/Time: 6/23/23 0805 Via Fedex

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
724728	06/21/2023	1000	RCRA 8 Metals; PCB + Cu, Mo, Ni, Zn - Ba, Ag Per Chuck 7/7/23	Ice	Std
724728	———	—	TCLP-Full		—

01

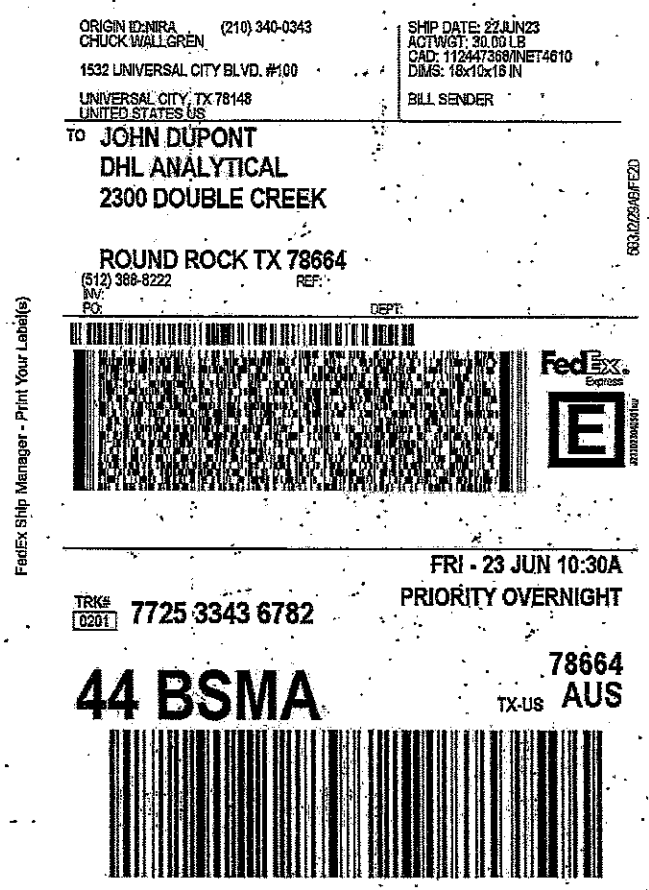
Comments/Special Instructions: 5.1°C Item #18 no custody seal

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: [signature] Date: 6-22-23

\\PCS-DC-2K16\natLIMS\Subout\724728.docx



ORIGIN ID:NIRA (210) 340-0343
CHUCK WALLGREN

1532 UNIVERSAL CITY BLVD. #100

UNIVERSAL CITY, TX 78148
UNITED STATES US

SHIP DATE: 22JUN23
ACTWGT: 30.00 LB
CAD: 112447368/INET4610
DIMS: 18x10x16 IN

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK

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

FedEx Express

FRI - 23 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7725 3343 6782

44 BSMA

78664
TX-US AUS

603J2/25/A6/FE2D

FedEx Ship Manager - Print Your Label(s)

6/22/23, 2:32 PM

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DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **Pollution Control Services** Date Received: **6/23/2023**

Work Order Number: **2306292** Received by: **GLK**

Checklist completed by: _____ 6/23/2023 Reviewed by: DL 6/23/2023
Signature Date Initials Date

Carrier name: FedEx 1day

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 #
	Adjusted? _____		Checked by _____
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 5.1

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: _____

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DHL Analytical, Inc. **Date:** *10-Jul-23*

CLIENT:	Pollution Control Services
Project:	PCS 724728
Lab Order:	2306292

CASE NARRATIVE

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

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and ASTM.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following.

For TCLP Semivolatiles Analysis, the recoveries of three surrogates for the Matrix Spike (2306245-01 MS) were below the method control limits. These are flagged accordingly in the QC Summary Report. The remaining surrogates for this sample were within method control limits. No further corrective action was taken.

For TCLP Semivolatiles Analysis, the recoveries/RPD(s) of up to eleven compounds for the Matrix Spike and Matrix Spike Duplicate (2306245-01 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, Batch 110867, the recovery of Lead for the Matrix Spike (2306288-13 MS) was above the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/MSD. No further corrective action was taken.

DHL Analytical, Inc.

Date: *07-Jul-23*

CLIENT: Pollution Control Services
Project: PCS 724728
Lab Order: 2306292

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2306292-01	724728		06/21/23 10:00 AM	06/23/2023

DHL Analytical, Inc.

Date: *10-Jul-23*

CLIENT: Pollution Control Services
Project: PCS 724728
Project No:
Lab Order: 2306292

Client Sample ID: 724728
Lab ID: 2306292-01
Collection Date: 06/21/23 10:00 AM
Matrix: SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **DEW**
Aroclor 1016	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1221	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1232	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1242	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1248	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1254	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Aroclor 1260	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Total PCB	<19.6	19.6	39.2		mg/Kg-dry	1	06/29/23 04:24 PM
Surr: Decachlorobiphenyl	73.5	0	58-125		%REC	1	06/29/23 04:24 PM
Surr: Tetrachloro-m-xylene	75.2	0	40-130		%REC	1	06/29/23 04:24 PM
TCLP HERBICIDES		**SW1311/8321B**					Analyst: **DMK**
2,4-D	<0.000898	0.000898	0.00269		mg/L	1	06/29/23 08:55 PM
Silvex (2,4,5-TP)	<0.000898	0.000898	0.00269		mg/L	1	06/29/23 08:55 PM
Surr: CPMBA	83.3	0	50-130		%REC	1	06/29/23 08:55 PM
Surr: DCAA	93.6	0	50-130		%REC	1	06/29/23 08:55 PM
TRACE METALS: ICP-MS - SOLID		**SW6020B**					Analyst: **SP**
Arsenic	<38.5	38.5	76.9		mg/Kg-dry	5	06/29/23 12:28 PM
Cadmium	<7.69	7.69	23.1		mg/Kg-dry	5	06/29/23 12:28 PM
Chromium	40.6	38.5	154	J	mg/Kg-dry	5	06/29/23 12:28 PM
Copper	349	38.5	154		mg/Kg-dry	5	06/29/23 12:28 PM
Lead	9.71	7.69	23.1	J	mg/Kg-dry	5	06/29/23 12:28 PM
Molybdenum	<38.5	38.5	154		mg/Kg-dry	5	06/29/23 12:28 PM
Nickel	<38.5	38.5	154		mg/Kg-dry	5	06/29/23 12:28 PM
Selenium	<11.5	11.5	38.5		mg/Kg-dry	5	06/29/23 12:28 PM
Zinc	1260	76.9	192		mg/Kg-dry	5	06/29/23 12:28 PM
MERCURY TOTAL: SOIL/SOLID		**SW7471B**					Analyst: **CMC**
Mercury	<1.18	1.18	2.95		mg/Kg-dry	1	07/03/23 10:08 AM
TCLP MERCURY		**SW1311/7470A**					Analyst: **CMC**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	07/05/23 11:21 AM
TCLP METALS		**SW1311/6020B**					Analyst: **SP**
Arsenic	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 02:52 PM
Barium	0.0535	0.0150	0.0500		mg/L	1	06/30/23 02:52 PM
Cadmium	<0.00150	0.00150	0.00500		mg/L	1	06/30/23 02:52 PM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 02:52 PM
Lead	<0.00150	0.00150	0.00500		mg/L	1	06/30/23 02:52 PM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 02:52 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: *10-Jul-23*

CLIENT:	Pollution Control Services	**Client Sample ID:**	724728
Project:	PCS 724728	**Lab ID:**	2306292-01
Project No:		**Collection Date:**	06/21/23 10:00 AM
Lab Order:	2306292	**Matrix:**	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP METALS		**SW1311/6020B**					Analyst: **SP**
Silver	<0.00500	0.00500	0.0100		mg/L	1	06/30/23 02:52 PM
TCLP PESTICIDES BY GC/MS		**SW1311/8270E**					Analyst: **DEW**
Chlordane	<0.000545	0.000545	0.00182		mg/L	1	07/05/23 02:04 PM
Endrin	<0.0000909	0.0000909	0.000273		mg/L	1	07/05/23 02:04 PM
gamma-BHC	<0.0000909	0.0000909	0.000273		mg/L	1	07/05/23 02:04 PM
Heptachlor	<0.0000909	0.0000909	0.000273		mg/L	1	07/05/23 02:04 PM
Heptachlor + epoxide	<0.0000909	0.0000909	0.000273		mg/L	1	07/05/23 02:04 PM
Heptachlor epoxide	<0.0000909	0.0000909	0.000273		mg/L	1	07/05/23 02:04 PM
Methoxychlor	<0.0000909	0.0000909	0.000455		mg/L	1	07/05/23 02:04 PM
Toxaphene	<0.00364	0.00364	0.0114		mg/L	1	07/05/23 02:04 PM
Surr: 2-Fluorobiphenyl	72.6	0	48-120		%REC	1	07/05/23 02:04 PM
Surr: 4-Terphenyl-d14	81.2	0	51-135		%REC	1	07/05/23 02:04 PM
TCLP SEMI-VOLATILES		**SW1311/8270E**					Analyst: **DEW**
1,4-Dichlorobenzene	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
2,4,5-Trichlorophenol	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
2,4,6-Trichlorophenol	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
2,4-Dinitrotoluene	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
2-Methylphenol	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
3&4-Methylphenol	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
Hexachlorobenzene	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
Hexachlorobutadiene	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
Hexachloroethane	<0.00960	0.00960	0.0384		mg/L	1	06/30/23 06:23 PM
Nitrobenzene	<0.0192	0.0192	0.0384		mg/L	1	06/30/23 06:23 PM
Pentachlorophenol	<0.0192	0.0192	0.0384		mg/L	1	06/30/23 06:23 PM
Pyridine	<0.0384	0.0384	0.0960		mg/L	1	06/30/23 06:23 PM
Surr: 2,4,6-Tribromophenol	93.0	0	42-124		%REC	1	06/30/23 06:23 PM
Surr: 2-Fluorobiphenyl	59.2	0	48-120		%REC	1	06/30/23 06:23 PM
Surr: 2-Fluorophenol	66.2	0	20-120		%REC	1	06/30/23 06:23 PM
Surr: 4-Terphenyl-d14	75.2	0	51-135		%REC	1	06/30/23 06:23 PM
Surr: Nitrobenzene-d5	73.8	0	41-120		%REC	1	06/30/23 06:23 PM
Surr: Phenol-d5	55.0	0	20-120		%REC	1	06/30/23 06:23 PM
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
1,1-Dichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
1,2-Dichloroethane	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
1,4-Dichlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
2-Butanone	<0.0500	0.0500	0.150		mg/L	10	06/30/23 11:16 AM
Benzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM

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: *10-Jul-23*

CLIENT:	Pollution Control Services	**Client Sample ID:**	724728
Project:	PCS 724728	**Lab ID:**	2306292-01
Project No:		**Collection Date:**	06/21/23 10:00 AM
Lab Order:	2306292	**Matrix:**	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
Carbon tetrachloride	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Chlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Chloroform	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Hexachlorobutadiene	<0.0100	0.0100	0.0300		mg/L	10	06/30/23 11:16 AM
Tetrachloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Trichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Vinyl chloride	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:16 AM
Surr: 1,2-Dichloroethane-d4	106	0	72-119		%REC	10	06/30/23 11:16 AM
Surr: 4-Bromofluorobenzene	99.4	0	76-119		%REC	10	06/30/23 11:16 AM
Surr: Dibromofluoromethane	107	0	85-115		%REC	10	06/30/23 11:16 AM
Surr: Toluene-d8	99.9	0	81-120		%REC	10	06/30/23 11:16 AM
PERCENT MOISTURE		**D2216**					Analyst: **SMA**
Percent Moisture	98.8	0	0		WT%	1	06/27/23 08:03 AM

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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: *10-Jul-23*

CLIENT: Pollution Control Services
Work Order: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_230629A

The QC data in batch 110921 applies to the following samples: 2306292-01B

Sample ID: **MB-110921** Batch ID: **110921** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC16_230629A** Analysis Date: **6/29/2023 3:58:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.100								
Aroclor 1221	ND	0.100								
Aroclor 1232	ND	0.100								
Aroclor 1242	ND	0.100								
Aroclor 1248	ND	0.100								
Aroclor 1254	ND	0.100								
Aroclor 1260	ND	0.100								
Total PCB	ND	0.100								
Surr: Decachlorobiphenyl	0.0925		0.1000		92.5	58	125			
Surr: Tetrachloro-m-xylene	0.0934		0.1000		93.4	40	130			

Sample ID: **LCS-110921** Batch ID: **110921** TestNo: **SW8082A** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC16_230629A** Analysis Date: **6/29/2023 6:05:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.825	0.100	1.000	0	82.5	41	138			
Aroclor 1260	0.812	0.100	1.000	0	81.2	61	131			
Total PCB	1.64	0.100	2.000	0	81.9	41	138			
Surr: Decachlorobiphenyl	0.104		0.1000		104	58	125			
Surr: Tetrachloro-m-xylene	0.102		0.1000		102	40	130			

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_230629A

The QC data in batch 110924 applies to the following samples: 2306292-01A

Sample ID: MB-110924	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MBLK	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:05:31 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	ND	0.000300								
Silvex (2,4,5-TP)	ND	0.000300								
Surr: CPMBA	0.00163		0.002200		74.2	50	130			
Surr: DCAA	0.00191		0.002200		86.6	50	130			

Sample ID: MB-110891-TCLP	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MBLK	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:23:53 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	ND	0.00262								
Silvex (2,4,5-TP)	ND	0.00262								
Surr: CPMBA	0.0148		0.01919		77.2	50	130			
Surr: DCAA	0.0168		0.01919		87.7	50	130			

Sample ID: LCS-110924	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: LCS	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:42:14 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.00154	0.000300	0.002200	0	70.2	39	120			
Silvex (2,4,5-TP)	0.00165	0.000300	0.002200	0	74.8	49	126			
Surr: CPMBA	0.00183		0.002200		83.2	50	130			
Surr: DCAA	0.00212		0.002200		96.4	50	130			

Sample ID: 2306245-01AMS	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MS	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 8:00:36 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0178	0.00266	0.01949	0	91.3	39	120			
Silvex (2,4,5-TP)	0.0172	0.00266	0.01949	0	88.5	49	126			
Surr: CPMBA	0.0177		0.01949		90.6	50	130			
Surr: DCAA	0.0213		0.01949		109	50	130			

Sample ID: 2306245-01AMSD	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MSD	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 8:18:59 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0163	0.00245	0.01797	0	90.7	39	120	8.75	30	
Silvex (2,4,5-TP)	0.0170	0.00245	0.01797	0	94.6	49	126	1.38	30	
Surr: CPMBA	0.0173		0.01797		96.1	50	130	0	0	
Surr: DCAA	0.0189		0.01797		105	50	130	0	30	

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230703A

The QC data in batch 110917 applies to the following samples: 2306292-01B

Sample ID: MB-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: MBLK	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:25:28 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: LCS-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: LCS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:27:44 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.206	0.0400	0.2000	0	103	85	115			

Sample ID: LCSD-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: LCSD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:30:00 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0400	0.2000	0	103	85	115	0.487	25	

Sample ID: 2306311-01AMS	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:17:41 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.256	0.0396	0.1978	0.06463	96.8	80	120			

Sample ID: 2306311-01AMSD	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:19:58 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.244	0.0388	0.1942	0.06463	92.2	80	120	4.98	25	

Sample ID: 2306311-01ASD	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: SD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:22:14 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.195	0	0.06463				0	10	

Sample ID: 2306311-01APDS	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: PDS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:24:30 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.297	0.0390	0.2437	0.06463	95.5	85	115			

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230705A

The QC data in batch 110970 applies to the following samples: 2306292-01A

Sample ID: **MB-110970**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **MBLK**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:07:59 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	ND	0.000200									

Sample ID: **MB-TCLP-110890**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **MBLK**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:10:15 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	ND	0.000200									

Sample ID: **LCS-110970**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **LCS**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:12:31 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.00182	0.000200	0.002000	0	91.0	85	115				

Sample ID: **LCSD-110970**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **LCSD**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:14:47 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.00180	0.000200	0.002000	0	90.0	85	115	1.10	15		

Sample ID: **2306292-01AMS**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **MS**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:23:53 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.00920	0.00100	0.01000	0	92.0	80	120				

Sample ID: **2306292-01AMSD**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **MSD**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:26:09 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.00900	0.00100	0.01000	0	90.0	80	120	2.20	15		

Sample ID: **2306340-02BMS**	Batch ID: **110970**			TestNo: **SW1311/7470A**				Units: **mg/L**			
SampType: **MS**	Run ID: **CETAC2_HG_230705A**			Analysis Date: **7/5/2023 11:46:33 AM**				Prep Date: **7/3/2023**			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.00182	0.000200	0.002000	0	91.0	80	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230705A

Sample ID: 2306340-02BMSD	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MSD	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:48:49 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00182	0.000200	0.002000	0	91.0	80	120	0	15	

Sample ID: 2306340-02BSD	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: SD	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:51:05 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID: 2306340-02BPDS	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: PDS	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:53:21 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00233	0.000200	0.002500	0	93.2	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

The QC data in batch 110867 applies to the following samples: 2306292-01B

Sample ID: **MB-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:52:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Copper	ND	2.00								
Lead	ND	0.300								
Molybdenum	ND	2.00								
Nickel	ND	2.00								
Selenium	ND	0.500								
Zinc	ND	2.50								

Sample ID: **LCS-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:55:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.4	1.00	50.00	0	101	80	120			
Cadmium	50.1	0.300	50.00	0	100	80	120			
Chromium	50.7	2.00	50.00	0	101	80	120			
Copper	51.6	2.00	50.00	0	103	80	120			
Lead	49.8	0.300	50.00	0	99.6	80	120			
Molybdenum	49.1	2.00	50.00	0	98.2	80	120			
Nickel	51.0	2.00	50.00	0	102	80	120			
Selenium	48.2	0.500	50.00	0	96.3	80	120			
Zinc	50.6	2.50	50.00	0	102	80	120			

Sample ID: **LCSD-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:57:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.0	1.00	50.00	0	100	80	120	0.803	25	
Cadmium	49.7	0.300	50.00	0	99.4	80	120	0.812	25	
Chromium	50.3	2.00	50.00	0	101	80	120	0.839	25	
Copper	50.9	2.00	50.00	0	102	80	120	1.34	25	
Lead	49.3	0.300	50.00	0	98.6	80	120	1.02	25	
Molybdenum	48.8	2.00	50.00	0	97.5	80	120	0.696	25	
Nickel	50.6	2.00	50.00	0	101	80	120	0.896	25	
Selenium	47.9	0.500	50.00	0	95.7	80	120	0.654	25	
Zinc	49.8	2.50	50.00	0	99.5	80	120	1.97	25	

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

Sample ID: 2306288-13A SD	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:05:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	6.27	5.19	0	6.205				1.01	20	
Cadmium	0.870	1.56	0	0.7894				9.70	20	
Chromium	33.3	10.4	0	31.70				5.01	20	
Copper	24.1	10.4	0	23.03				4.60	20	
Lead	154	1.56	0	157.5				2.31	20	
Molybdenum	0	10.4	0	0				0	20	
Nickel	22.7	10.4	0	21.63				4.64	20	
Selenium	0	2.60	0	0.5263				0	20	
Zinc	250	13.0	0	239.6				4.41	20	

Sample ID: 2306288-13A PDS	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:31:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	56.9	1.04	51.93	6.205	97.7	75	125			
Cadmium	52.3	0.312	51.93	0.7894	99.2	75	125			
Chromium	81.8	2.08	51.93	31.70	96.5	75	125			
Copper	74.1	2.08	51.93	23.03	98.4	75	125			
Lead	209	0.312	51.93	157.5	98.8	75	125			
Molybdenum	50.4	2.08	51.93	0	97.0	75	125			
Nickel	72.9	2.08	51.93	21.63	98.8	75	125			
Selenium	48.6	0.519	51.93	0.5263	92.6	75	125			
Zinc	287	2.60	51.93	239.6	91.1	75	125			

Sample ID: 2306288-13A MS	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:33:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	59.4	1.06	52.84	6.205	101	75	125			
Cadmium	54.1	0.317	52.84	0.7894	101	75	125			
Chromium	88.4	2.11	52.84	31.70	107	75	125			
Copper	74.5	2.11	52.84	23.03	97.3	75	125			
Lead	272	0.317	52.84	157.5	216	75	125			S
Molybdenum	50.5	2.11	52.84	0	95.6	75	125			
Nickel	80.1	2.11	52.84	21.63	111	75	125			
Selenium	49.1	0.528	52.84	0.5263	91.9	75	125			
Zinc	281	2.64	52.84	239.6	77.6	75	125			

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

Sample ID: **2306288-13A MSD** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 12:36:00 PM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	57.5	1.02	51.06	6.205	100	75	125	3.26	25	
Cadmium	52.9	0.306	51.06	0.7894	102	75	125	2.26	25	
Chromium	82.2	2.04	51.06	31.70	99.0	75	125	7.19	25	
Copper	80.3	2.04	51.06	23.03	112	75	125	7.51	25	
Lead	219	0.306	51.06	157.5	121	75	125	21.3	25	
Molybdenum	50.3	2.04	51.06	0	98.5	75	125	0.422	25	
Nickel	70.9	2.04	51.06	21.63	96.5	75	125	12.3	25	
Selenium	49.0	0.511	51.06	0.5263	95.0	75	125	0.078	25	
Zinc	285	2.55	51.06	239.6	89.1	75	125	1.59	25	

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

The QC data in batch 110942 applies to the following samples: 2306292-01A

Sample ID: **MB-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:30:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Selenium	ND	0.00500								
Silver	ND	0.00200								

Sample ID: **MB-110890-TCLP** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:33:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0250								
Barium	ND	0.0500								
Cadmium	ND	0.00500								
Chromium	ND	0.0250								
Lead	ND	0.00500								
Selenium	ND	0.0250								
Silver	ND	0.0100								

Sample ID: **LCS-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:45:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.2000	0	101	80	120			
Barium	0.202	0.0100	0.2000	0	101	80	120			
Cadmium	0.200	0.00100	0.2000	0	99.8	80	120			
Chromium	0.201	0.00500	0.2000	0	101	80	120			
Lead	0.192	0.00100	0.2000	0	96.0	80	120			
Selenium	0.193	0.00500	0.2000	0	96.6	80	120			
Silver	0.201	0.00200	0.2000	0	101	80	120			

Sample ID: **LCSD-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:47:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.2000	0	101	80	120	0.098	15	
Barium	0.202	0.0100	0.2000	0	101	80	120	0.135	15	
Cadmium	0.200	0.00100	0.2000	0	100	80	120	0.159	15	
Chromium	0.202	0.00500	0.2000	0	101	80	120	0.527	15	

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

Sample ID: LCSD-110942	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 2:47:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.196	0.00100	0.2000	0	98.1	80	120	2.09	15	
Selenium	0.193	0.00500	0.2000	0	96.5	80	120	0.119	15	
Silver	0.203	0.00200	0.2000	0	102	80	120	1.03	15	

Sample ID: 2306292-01A SD	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 2:55:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.125	0	0				0	20	
Barium	0	0.250	0	0.05354				0	20	
Cadmium	0	0.0250	0	0				0	20	
Chromium	0	0.125	0	0				0	20	
Lead	0	0.0250	0	0				0	20	
Selenium	0	0.125	0	0				0	20	
Silver	0	0.0500	0	0				0	20	

Sample ID: 2306292-01A PDS	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 3:18:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.989	0.0250	1.000	0	98.9	75	125			
Barium	1.10	0.0500	1.000	0.05354	104	75	125			
Cadmium	1.02	0.00500	1.000	0	102	75	125			
Chromium	1.04	0.0250	1.000	0	104	75	125			
Lead	0.998	0.00500	1.000	0	99.8	75	125			
Selenium	0.938	0.0250	1.000	0	93.8	75	125			
Silver	1.03	0.0100	1.000	0	103	75	125			

Sample ID: 2306292-01A MS	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: MS	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 3:24:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.981	0.0250	1.000	0	98.1	75	125			
Barium	1.07	0.0500	1.000	0.05354	102	75	125			
Cadmium	1.00	0.00500	1.000	0	100	75	125			
Chromium	1.01	0.0250	1.000	0	101	75	125			
Lead	0.979	0.00500	1.000	0	97.9	75	125			
Selenium	0.923	0.0250	1.000	0	92.3	75	125			
Silver	1.01	0.0100	1.000	0	101	75	125			

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

SampleID: **2306292-01A MSD**	Batch ID: **110942**	TestNo: **SW1311/6020B**	Units: **mg/L**		
SampType: **MSD**	Run ID: **ICP-MS5_230630C**	Analysis Date: **6/30/2023 3:26:00 PM**	Prep Date: **6/30/2023**		

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.975	0.0250	1.000	0	97.5	75	125	0.641	15	
Barium	1.09	0.0500	1.000	0.05354	104	75	125	1.86	15	
Cadmium	1.01	0.00500	1.000	0	101	75	125	0.702	15	
Chromium	1.01	0.0250	1.000	0	101	75	125	0.202	15	
Lead	0.991	0.00500	1.000	0	99.1	75	125	1.20	15	
Selenium	0.926	0.0250	1.000	0	92.6	75	125	0.359	15	
Silver	1.02	0.0100	1.000	0	102	75	125	0.794	15	

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_230705A

The QC data in batch 110978 applies to the following samples: 2306292-01A

Sample ID: LCS-110978	Batch ID: 110978	TestNo: SW1311/8270E	Units: mg/L
SampType: LCS	Run ID: GCMS10_230705A	Analysis Date: 7/5/2023 10:36:00 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000396	0.0000300	0.0004000	0	99.1	55	135			
gamma-BHC	0.000282	0.0000300	0.0004000	0	70.5	25	135			
Heptachlor	0.000305	0.0000300	0.0004000	0	76.1	40	130			
Heptachlor epoxide	0.000306	0.0000300	0.0004000	0	76.5	60	130			
Methoxychlor	0.000339	0.0000500	0.0004000	0	84.7	55	150			
Heptachlor + epoxide	0.000611	0.0000300	0.0008000	0	76.3	40	130			
Surr: 2-Fluorobiphenyl	0.00276		0.004000		69.0	48	120			
Surr: 4-Terphenyl-d14	0.00299		0.004000		74.8	51	135			

Sample ID: LCSD-110978	Batch ID: 110978	TestNo: SW1311/8270E	Units: mg/L
SampType: LCSD	Run ID: GCMS10_230705A	Analysis Date: 7/5/2023 11:11:00 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000402	0.0000300	0.0004000	0	101	55	135	1.48	30	
gamma-BHC	0.000280	0.0000300	0.0004000	0	70.1	25	135	0.569	30	
Heptachlor	0.000284	0.0000300	0.0004000	0	71.1	40	130	6.83	30	
Heptachlor epoxide	0.000326	0.0000300	0.0004000	0	81.6	60	130	6.39	30	
Methoxychlor	0.000331	0.0000500	0.0004000	0	82.6	55	150	2.47	30	
Heptachlor + epoxide	0.000611	0.0000300	0.0008000	0	76.3	40	130	0.013	30	
Surr: 2-Fluorobiphenyl	0.00258		0.004000		64.5	48	120	0	0	
Surr: 4-Terphenyl-d14	0.00294		0.004000		73.4	51	135	0	0	

Sample ID: MB-110978	Batch ID: 110978	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS10_230705A	Analysis Date: 7/5/2023 12:55:00 PM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.000200								
Endrin	ND	0.0000300								
gamma-BHC	ND	0.0000300								
Heptachlor	ND	0.0000300								
Heptachlor epoxide	ND	0.0000300								
Methoxychlor	ND	0.0000500								
Toxaphene	ND	0.00125								
Heptachlor + epoxide	ND	0.0000300								
Surr: 2-Fluorobiphenyl	0.00280		0.004000		69.9	48	120			
Surr: 4-Terphenyl-d14	0.00311		0.004000		77.7	51	135			

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

The QC data in batch 110926 applies to the following samples: 2306292-01A

Sample ID: **LCS-110926** Batch ID: **110926** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_230630A** Analysis Date: **6/30/2023 1:57:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0266	0.00400	0.04000	0	66.5	30	125			
2,4,5-Trichlorophenol	0.0339	0.00400	0.04000	0	84.6	49	120			
2,4,6-Trichlorophenol	0.0330	0.00400	0.04000	0	82.4	49	126			
2,4-Dinitrotoluene	0.0365	0.00400	0.04000	0	91.3	51	120			
2-Methylphenol	0.0233	0.00400	0.04000	0	58.3	38	120			
3&4-Methylphenol	0.0224	0.00400	0.04000	0	56.1	32	120			
Hexachlorobenzene	0.0316	0.00400	0.04000	0	79.0	52	120			
Hexachlorobutadiene	0.0273	0.00400	0.04000	0	68.4	27	120			
Hexachloroethane	0.0260	0.00400	0.04000	0	64.9	28	120			
Nitrobenzene	0.0314	0.00400	0.04000	0	78.6	44	120			
Pentachlorophenol	0.0364	0.00400	0.04000	0	90.9	38	120			
Pyridine	0.0104	0.0100	0.04000	0	26.0	20	120			
Surr: 2,4,6-Tribromophenol	0.0722		0.08000		90.2	42	124			
Surr: 2-Fluorobiphenyl	0.0538		0.08000		67.2	48	120			
Surr: 2-Fluorophenol	0.0414		0.08000		51.8	20	120			
Surr: 4-Terphenyl-d14	0.0570		0.08000		71.2	51	135			
Surr: Nitrobenzene-d5	0.0604		0.08000		75.5	41	120			
Surr: Phenol-d5	0.0266		0.08000		33.2	20	120			

Sample ID: **2306245-01AMS** Batch ID: **110926** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MS** Run ID: **GCMS9_230630A** Analysis Date: **6/30/2023 2:19:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.184	0.0371	0.3711	0	49.6	30	125			
2,4,5-Trichlorophenol	0.0371	0.0371	0.3711	0	10.0	49	120			S
2,4,6-Trichlorophenol	0.0349	0.0371	0.3711	0	9.40	49	126			S
2,4-Dinitrotoluene	0.262	0.0371	0.3711	0	70.5	51	120			
2-Methylphenol	0.0798	0.0371	0.3711	0	21.5	38	120			S
3&4-Methylphenol	0.0686	0.0371	0.3711	0	18.5	32	120			S
Hexachlorobenzene	0.234	0.0371	0.3711	0	63.0	52	120			
Hexachlorobutadiene	0.195	0.0371	0.3711	0	52.5	27	120			
Hexachloroethane	0.180	0.0371	0.3711	0	48.5	28	120			
Nitrobenzene	0.226	0.0371	0.3711	0	61.0	44	120			
Pentachlorophenol	0.0735	0.0371	0.3711	0	19.8	38	120			S
Pyridine	0.140	0.0928	0.3711	0	37.8	20	120			
Surr: 2,4,6-Tribromophenol	0.100		0.7421		13.5	42	124			S
Surr: 2-Fluorobiphenyl	0.388		0.7421		52.2	48	120			
Surr: 2-Fluorophenol	0.0649		0.7421		8.75	20	120			S
Surr: 4-Terphenyl-d14	0.440		0.7421		59.2	51	135			
Surr: Nitrobenzene-d5	0.425		0.7421		57.2	41	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

Sample ID: 2306245-01AMS	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MS	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 2:19:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d5	0.0686		0.7421		9.25	20	120			S

Sample ID: 2306245-01AMSD	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MSD	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 2:41:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.251	0.0372	0.3717	0	67.4	30	125	30.6	20	R
2,4,5-Trichlorophenol	0.185	0.0372	0.3717	0	49.8	49	120	133	20	R
2,4,6-Trichlorophenol	0.171	0.0372	0.3717	0	46.0	49	126	132	20	SR
2,4-Dinitrotoluene	0.316	0.0372	0.3717	0	85.0	51	120	18.9	20	
2-Methylphenol	0.187	0.0372	0.3717	0	50.4	38	120	80.5	20	R
3&4-Methylphenol	0.181	0.0372	0.3717	0	48.8	32	120	90.2	20	R
Hexachlorobenzene	0.302	0.0372	0.3717	0	81.3	52	120	25.5	20	R
Hexachlorobutadiene	0.272	0.0372	0.3717	0	73.1	27	120	33.0	20	R
Hexachloroethane	0.252	0.0372	0.3717	0	67.8	28	120	33.3	20	R
Nitrobenzene	0.305	0.0372	0.3717	0	82.0	44	120	29.6	20	R
Pentachlorophenol	0.236	0.0372	0.3717	0	63.6	38	120	105	20	R
Pyridine	0.0942	0.0929	0.3717	0	25.4	20	120	39.1	20	R
Surr: 2,4,6-Tribromophenol	0.426		0.7435		57.2	42	124	0	0	
Surr: 2-Fluorobiphenyl	0.496		0.7435		66.8	48	120	0	0	
Surr: 2-Fluorophenol	0.301		0.7435		40.5	20	120	0	0	
Surr: 4-Terphenyl-d14	0.530		0.7435		71.2	51	135	0	0	
Surr: Nitrobenzene-d5	0.572		0.7435		77.0	41	120	0	0	
Surr: Phenol-d5	0.283		0.7435		38.0	20	120	0	0	

Sample ID: MB-110926	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:26:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.00400								
2,4,5-Trichlorophenol	ND	0.00400								
2,4,6-Trichlorophenol	ND	0.00400								
2,4-Dinitrotoluene	ND	0.00400								
2-Methylphenol	ND	0.00400								
3&4-Methylphenol	ND	0.00400								
Hexachlorobenzene	ND	0.00400								
Hexachlorobutadiene	ND	0.00400								
Hexachloroethane	ND	0.00400								
Nitrobenzene	ND	0.00400								
Pentachlorophenol	ND	0.00400								
Pyridine	ND	0.0100								

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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

Sample ID: MB-110926	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:26:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	0.0754		0.08000		94.3	42	124			
Surr: 2-Fluorobiphenyl	0.0494		0.08000		61.8	48	120			
Surr: 2-Fluorophenol	0.0314		0.08000		39.3	20	120			
Surr: 4-Terphenyl-d14	0.0580		0.08000		72.5	51	135			
Surr: Nitrobenzene-d5	0.0588		0.08000		73.5	41	120			
Surr: Phenol-d5	0.0164		0.08000		20.5	20	120			

Sample ID: MB-110891-TCLP	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:48:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.0368	0							
2,4,5-Trichlorophenol	ND	0.0368	0							
2,4,6-Trichlorophenol	ND	0.0368	0							
2,4-Dinitrotoluene	ND	0.0368	0							
2-Methylphenol	ND	0.0368	0							
3&4-Methylphenol	ND	0.0368	0							
Hexachlorobenzene	ND	0.0368	0							
Hexachlorobutadiene	ND	0.0368	0							
Hexachloroethane	ND	0.0368	0							
Nitrobenzene	ND	0.0368	0							
Pentachlorophenol	ND	0.0368	0							
Pyridine	ND	0.0919	0							
Surr: 2,4,6-Tribromophenol	0.667		0.7353		90.8	42	124			
Surr: 2-Fluorobiphenyl	0.454		0.7353		61.8	48	120			
Surr: 2-Fluorophenol	0.491		0.7353		66.8	20	120			
Surr: 4-Terphenyl-d14	0.550		0.7353		74.8	51	135			
Surr: Nitrobenzene-d5	0.546		0.7353		74.2	41	120			
Surr: Phenol-d5	0.403		0.7353		54.8	20	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

The QC data in batch 110932 applies to the following samples: 2306292-01A

Sample ID: **LCS-110932** Batch ID: **110932** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_230629B** Analysis Date: **6/29/2023 3:46:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0233	0.00100	0.02320	0	100	68	130			
1,2-Dichloroethane	0.0244	0.00100	0.02320	0	105	69	132			
1,4-Dichlorobenzene	0.0244	0.00100	0.02320	0	105	74	123			
2-Butanone	0.132	0.0150	0.1160	0	113	49	136			
Benzene	0.0241	0.00100	0.02320	0	104	81	122			
Carbon tetrachloride	0.0230	0.00100	0.02320	0	99.1	66	138			
Chlorobenzene	0.0237	0.00100	0.02320	0	102	81	122			
Chloroform	0.0242	0.00100	0.02320	0	104	69	128			
Hexachlorobutadiene	0.0246	0.00300	0.02320	0	106	67	131			
Tetrachloroethene	0.0232	0.00100	0.02320	0	99.9	66	128			
Trichloroethene	0.0236	0.00100	0.02320	0	102	70	127			
Vinyl chloride	0.0258	0.00100	0.02320	0	111	50	134			
Surr: 1,2-Dichloroethane-d4	0.204		0.2000		102	72	119			
Surr: 4-Bromofluorobenzene	0.196		0.2000		97.9	76	119			
Surr: Dibromofluoromethane	0.210		0.2000		105	85	115			
Surr: Toluene-d8	0.196		0.2000		97.8	81	120			

Sample ID: **MB-110932** Batch ID: **110932** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_230629B** Analysis Date: **6/29/2023 4:48:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloroethane	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
2-Butanone	ND	0.0150								
Benzene	ND	0.00100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroform	ND	0.00100								
Hexachlorobutadiene	ND	0.00300								
Tetrachloroethene	ND	0.00100								
Trichloroethene	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.213		0.2000		106	72	119			
Surr: 4-Bromofluorobenzene	0.200		0.2000		99.9	76	119			
Surr: Dibromofluoromethane	0.213		0.2000		107	85	115			
Surr: Toluene-d8	0.199		0.2000		99.3	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

Sample ID: 2306340-02AMS	Batch ID: 110932	TestNo: SW1311/8260D	Units: mg/L
SampType: MS	Run ID: GCMS5_230629B	Analysis Date: 6/29/2023 10:01:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0212	0.00100	0.02320	0	91.4	66	130			
1,2-Dichloroethane	0.0222	0.00100	0.02320	0	95.8	69	132			
1,4-Dichlorobenzene	0.0216	0.00100	0.02320	0	93.2	74	123			
2-Butanone	0.0902	0.0150	0.1160	0	77.7	49	136			
Benzene	0.0221	0.00100	0.02320	0	95.3	81	122			
Carbon tetrachloride	0.0211	0.00100	0.02320	0	91.1	66	138			
Chlorobenzene	0.0216	0.00100	0.02320	0	93.0	81	122			
Chloroform	0.0221	0.00100	0.02320	0	95.1	69	128			
Hexachlorobutadiene	0.0204	0.00300	0.02320	0	88.0	67	131			
Tetrachloroethene	0.0211	0.00100	0.02320	0	90.9	66	128			
Trichloroethene	0.0213	0.00100	0.02320	0	91.7	70	127			
Vinyl chloride	0.0218	0.00100	0.02320	0	93.9	50	134			
Surr: 1,2-Dichloroethane-d4	0.204		0.2000		102	72	119			
Surr: 4-Bromofluorobenzene	0.194		0.2000		96.9	76	119			
Surr: Dibromofluoromethane	0.211		0.2000		105	85	115			
Surr: Toluene-d8	0.192		0.2000		95.8	81	120			

Sample ID: 2306340-02AMSD	Batch ID: 110932	TestNo: SW1311/8260D	Units: mg/L
SampType: MSD	Run ID: GCMS5_230629B	Analysis Date: 6/29/2023 10:27:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0216	0.00100	0.02320	0	93.0	66	130	1.63	20	
1,2-Dichloroethane	0.0220	0.00100	0.02320	0	94.9	69	132	0.963	20	
1,4-Dichlorobenzene	0.0220	0.00100	0.02320	0	94.8	74	123	1.76	20	
2-Butanone	0.0883	0.0150	0.1160	0	76.2	49	136	2.05	20	
Benzene	0.0222	0.00100	0.02320	0	95.7	81	122	0.469	20	
Carbon tetrachloride	0.0216	0.00100	0.02320	0	93.3	66	138	2.37	20	
Chlorobenzene	0.0216	0.00100	0.02320	0	92.9	81	122	0.148	20	
Chloroform	0.0219	0.00100	0.02320	0	94.6	69	128	0.523	20	
Hexachlorobutadiene	0.0210	0.00300	0.02320	0	90.5	67	131	2.80	20	
Tetrachloroethene	0.0209	0.00100	0.02320	0	90.2	66	128	0.686	20	
Trichloroethene	0.0213	0.00100	0.02320	0	91.7	70	127	0.028	20	
Vinyl chloride	0.0223	0.00100	0.02320	0	96.2	50	134	2.42	20	
Surr: 1,2-Dichloroethane-d4	0.203		0.2000		101	72	119	0	0	
Surr: 4-Bromofluorobenzene	0.195		0.2000		97.3	76	119	0	0	
Surr: Dibromofluoromethane	0.209		0.2000		105	85	115	0	0	
Surr: Toluene-d8	0.194		0.2000		97.0	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

Sample ID: **MB-TCLP-110936** Batch ID: **110932** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_230629B** Analysis Date: **6/30/2023 10:24:00 AM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.0100	0							
1,2-Dichloroethane	ND	0.0100	0							
1,4-Dichlorobenzene	ND	0.0100	0							
2-Butanone	ND	0.150	0							
Benzene	ND	0.0100	0							
Carbon tetrachloride	ND	0.0100	0							
Chlorobenzene	ND	0.0100	0							
Chloroform	ND	0.0100	0							
Hexachlorobutadiene	ND	0.0300	0							
Tetrachloroethene	ND	0.0100	0							
Trichloroethene	ND	0.0100	0							
Vinyl chloride	ND	0.0100	0							
Surr: 1,2-Dichloroethane-d4	2.13		2.000		107	72	119			
Surr: 4-Bromofluorobenzene	2.01		2.000		100	76	119			
Surr: Dibromofluoromethane	2.13		2.000		107	85	115			
Surr: Toluene-d8	2.00		2.000		100	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: 2306292
Project: PCS 724728

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_230626B

The QC data in batch 110857 applies to the following samples: 2306292-01B

Sample ID: 2306288-20A-DUP	Batch ID: 110857	TestNo: D2216		Units: WT%	
SampType: DUP	Run ID: PMOIST_230626B	Analysis Date: 6/27/2023 8:03:00 AM		Prep Date: 6/26/2023	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	22.4	0	0	21.34				4.63	30	

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

Pollution Control Services
Sample Log-In Checklist

724728

PCS Sample No(s) 724728 **COC No.** _____

Client/Company Name: GBRA **Checklist Completed by:** JAA

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 6 / 6 °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:_____ Date _____ Time _____
pH paper used to check sample preservation (PCS log #): _____ (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: _____
_____

Publish Date/Time: 7/14/2023 2:25 PM

Report of Analysis

For: **425426 - GBRA-4-S Ranch WWTP**
4775 S Cranes Mill Rd
Canyon Lake, TX 78132

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

1 Parameter not available for NELAP accreditation at the GBRA
NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

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Work Order: 230621.08

Publish Date/Time: 7/14/2023 2:25 PM

Lab Sample ID: 230621.08-01 **Collection Date/Time:** 6/21/2023 09:15 AM **Sample Matrix:** Solids

Site: 4-S Sludge **Receive Date/Time:** 6/21/2023 11:15 AM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1 Percent Total Solids	Subcontract	See attached report	%	1			6/27/2023 08:03 AM			
1 TCLP Arsenic	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Cadmium	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Chromium	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Lead	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Mercury	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Molybdenum	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Nickel	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Selenium	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 TCLP Zinc	Subcontract	See attached report	mg/L	1			7/5/2023 11:28 AM			
1 PCB-1016	Subcontract	See attached report		1			6/29/2023 04:49 PM			
1 PCB-1221	Subcontract	See attached report		1			6/29/2023 04:49 PM			
1 TCLP Chlordane	Subcontract	See	mg/L	1			6/29/2023 09:14 AM			

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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		attached report			
1 PCB-1232	Subcontract	See attached report		1	6/29/2023 04:49 PM
1 TCLP Endrin	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 PCB-1242	Subcontract	See attached report		1	6/29/2023 04:49 PM
1 TCLP Heptachlor	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 PCB-1248	Subcontract	See attached report		1	6/29/2023 04:49 PM
1 TCLP Heptachlor Epoxide	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 PCB-1254	Subcontract	See attached report		1	6/29/2023 04:49 PM
1 TCLP Methoxychlor	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 PCB-1260	Subcontract	See attached report		1	6/29/2023 04:49 PM
1 TCLP Toxaphene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 TCLP 2,4 D	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 TCLP 1,2-Dichloroethane	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 TCLP 1,1-Dichloroethylene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1 TCLP 1,4 Dichlorobenzene	Subcontract	See	mg/L	1	6/29/2023 09:14 AM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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			attached report			
1	TCLP Benzene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Carbon tetrachloride	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Chlorobenzene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Chloroform	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Tetrachloroethylene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Trichloroethylene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Vinyl chloride	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP 3 and 4-Methylphenol (m and p-Cresol)	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP 2-Methylphenol (o-Cresol)	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP 2,4-Dinitrotoluene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Hexachlorobenzene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Hexachlorobutadiene	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Hexachloroethane	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Nitrobenzene	Subcontract	See	mg/L	1	6/29/2023 09:14 AM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

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			attached report			
1	TCLP Pentachlorophenol	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP Pyridine	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP 2,4,6-Trichlorophenol	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM
1	TCLP 2,4,5-Trichlorophenol	Subcontract	See attached report	mg/L	1	6/29/2023 09:14 AM

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

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LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition			
%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments	
230621.08	N/A

1 Parameter not available for NELAP accreditation at the GBRA

NA = not analyzed

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

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GBRA LAB
933 E. Court Street, Seguin, TX 78155
Phone: (830) 379-6622 Fax: (830) 379-7478

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

Customer Information

Customer Acct.#: 425426		**RUSH Analysis :** _____ by EOB (Additional Fees Apply)	
Name: GBRA- 4-S Ranch WWTP		**Billing Address:**	
Address:		**Fax #:**	
Phone #: 830-560-0446		**Email 1:**	chollilday@gbra.org
Thermometer #: 24		**Email 2:**	hdunean@gbra.org
Receipt Temp (°C) Observed / Corrected: 4.5 / 4.5		**Chlorine Strip GBRA Reagent #**	**Chlorine : Absent/ Present**
Ice: (Yes) / No (Circle One)		**pH Paper GBRA Reagent #:**	
# of Containers: 1	**Condition of Containers (Intact):** (Yes) / No (Circle One)	**Residual Chlorine (Total/Free) Results:**	

Date Collected	Time Collected	Matrix WW=Wastewater DW=Drinking Water SW=Surface Water S=Solid/Soil/Sludge	Sx Vol, P=Plastic G=Glass	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	230621.08 GBRA Sample ID	pH	Type of Preservation	Rush sample (2x, 3x, 4x)
6-21-23	0915	S	2-1 Qrt G	Sludge		Grab	TCLP, PCBs, Metals (#)	-01			

Sampler Name (Print): Cecil Holliday		**Sampler Signature:**	
Released by (Sampler):	**Date/Time:** 6.21.23 1145	**Transferred To:** OK/CK	**Date/Time:** 1115 6/21/23
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**

NOTES / COMMENTS / SHIP TO:

(#) sent to Subcontract Lab KH 6/21/23

Rush Fees: 24 hour TAT/ Holiday Fee=4X Price; 48 hour TAT=3X Price; 3-5 days TAT = 2X Price

Notes: $=Metals sent to subcontracted lab *=O&G pH tested at subcontracted lab.

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Jennifer Sanchez **Guadalupe—Blanco River Authority** **933 East Court St.** **Seguin, TX 78155**	**Project Name:** **Sample ID: 230621.08-01** **Matrix: Liquid Sludge** **Date/Time Taken: 06/21/2023 0915**	**PCS Sample #: 724729 Page 1 of 1** **Date/Time Received: 06/21/2023 16:10** **Report Date: 07/10/2023** Approved by: Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
503 Metals	See Attached				DHL	
TCLP-Full	See Attached				DHL	
PCB, Total	See Attached				DHL	

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

Web Site: www.pcslab.net
eMail: chuck@pcslab.net
Toll Free 800-880-4616
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
210-340-0343
FAX # 210-658-7903

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724729

Chain of Custody

Guadalupe Blanco River Authority- Regional Laboratory

933 E. Court Street, Seguin, Texas 78155

(830) 379-5822 fax: (830) 379-7478

Customer Information

Customer Acct.#

Name: **GBRA** Kylie Gudgell

Address: 933 East Court St

Seguin, TX 78155

Sample Collected By: _____ Signature

Thermometer No. _____

RUSH Due Date: _____ **by EOB**

Billing Address labsubinvoices@gbra.org

Phone # (830)379-5822 Fax # _____

E-mail: labreports@gbra.org ☐ E-mail Only ☐ Mail Only

Printed Name Residual Chlorine (Total/Free) Results _____

pH Paper GBRA reagent no. _____

Temp C	Date Collected	Time Collected	WW=Wastewater DW=Drinking Water SW=Surface Water S=soil/sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample I.D.	Bottle I.D.#	pH	GBRA Preservation	Rush sample (2x, 3x, 4x)
	6/21/2023	9:15	S	2-1Qt- G	230621.08-01		G	TCLP, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, PCBs, Selenium, Zinc	724729				

Delivered By: _____ Date/Time: 6/21/23 1610 **Received By:** Jose Aguilar Date/Time: 6-21-23 1610

Delivered By: _____ Date/Time: _____ **Received By:** _____ Date/Time: _____

**Special Notes/Ship to: _____

Ice: _____(Y or N) Number of Containers _____ Condition of Container(s): (intact) _____

DHL ANALYTICAL

July 10, 2023

Chuck Wallgren
Pollution Control Services
1532 Universal City Blvd. #100
Universal City, TX 78148
TEL: (210) 340-0343
FAX:

Order No.: 2306293

RE: PCS 724729

Dear Chuck Wallgren:

DHL Analytical, Inc. received 1 sample(s) on 6/23/2023 for the analyses presented in the following report.

Revision Number 1 for Work Order 2306293: This revision consists of changing the target analyte list for per the client's request. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

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POLLUTION CONTROL SERVICES
1532 Universal City Blvd, Suite 100
Universal City, TX 78148-3318
Facsimile 210.658.7903
210.340.0343

2306293

CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

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

Relinquished by: Lauren Wallgren
Date/Time: 06/22/2023 @ 1500
Received by:
Date/Time: 6/22/23 0823 Via Police

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
724729	06/21/2023	0915	RCRA 8 Metals; PCB (Cu, Mo, Ni, Zn - Ba, Ag Per Chuck 7/7/23)	Ice	Std
724729	———	—	TCLP-Full		—

Comments/Special Instructions: 5.1°C therm #78 no cust seal

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: Lauren Wallgren Date: 6.22.23

\\PCS-DC-2K16\aa\LIMS\Subout\724729.docx



ORIGIN ID:NIRA (210) 340-0343
CHUCK WALLGREN
1532 UNIVERSAL CITY BLVD. #100
UNIVERSAL CITY, TX 78148
UNITED STATES US

SHIP DATE: 22JUN23
ACTWGT: 30.00 LB
CAD: 112447368/INET4610
DIMS: 18x10x16 IN
BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK

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

FedEx Express

FRI - 23 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7725 3343 6782

44 BSMA

78664
TX-US AUS

FedEx Ship Manager - Print Your Label(s)

6/22/23, 2:32 PM

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DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: Pollution Control Services | Date Received: 6/23/2023

Work Order Number: 2306293 | Received by: GLK

Checklist completed by: _____ 6/23/2023 (Signature / Date) | Reviewed by: DF 6/23/2023 (Initials / Date)

Carrier name: FedEx 1day

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 #
	Adjusted? _____		Checked by _____
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 5.1

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: _____

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Page 1 of 1

DHL Analytical, Inc. Date: *10-Jul-23*

CLIENT:	Pollution Control Services
Project:	PCS 724729
Lab Order:	2306293

CASE NARRATIVE

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

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and ASTM.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following.

For TCLP Semivolatiles Analysis, the recoveries of three surrogates for the Matrix Spike (2306245-01 MS) were below the method control limits. These are flagged accordingly in the QC Summary Report. The remaining surrogates for this sample were within method control limits. No further corrective action was taken.

For TCLP Semivolatiles Analysis, the recoveries/RPD(s) of up to eleven compounds for the Matrix Spike and Matrix Spike Duplicate (2306245-01 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, Batch 110867, the recovery of Lead for the Matrix Spike (2306288-13 MS) was above the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/MSD. No further corrective action was taken.

DHL Analytical, Inc.

Date: *07-Jul-23*

CLIENT: Pollution Control Services
Project: PCS 724729
Lab Order: 2306293

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2306293-01	724729		06/21/23 09:15 AM	06/23/2023

DHL Analytical, Inc.

Date: *10-Jul-23*

CLIENT: Pollution Control Services
Project: PCS 724729
Project No:
Lab Order: 2306293

Client Sample ID: 724729
Lab ID: 2306293-01
Collection Date: 06/21/23 09:15 AM
Matrix: SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB BY GC - SOIL/SOLID		**SW8082A**					Analyst: **DEW**
Aroclor 1016	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1221	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1232	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1242	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1248	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1254	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Aroclor 1260	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Total PCB	<12.3	12.3	24.6		mg/Kg-dry	1	06/29/23 04:49 PM
Surr: Decachlorobiphenyl	76.8	0	58-125		%REC	1	06/29/23 04:49 PM
Surr: Tetrachloro-m-xylene	78.3	0	40-130		%REC	1	06/29/23 04:49 PM
TCLP HERBICIDES		**SW1311/8321B**					Analyst: **DMK**
2,4-D	<0.000836	0.000836	0.00251		mg/L	1	06/29/23 09:14 PM
Silvex (2,4,5-TP)	<0.000836	0.000836	0.00251		mg/L	1	06/29/23 09:14 PM
Surr: CPMBA	84.9	0	50-130		%REC	1	06/29/23 09:14 PM
Surr: DCAA	96.9	0	50-130		%REC	1	06/29/23 09:14 PM
TRACE METALS: ICP-MS - SOLID		**SW6020B**					Analyst: **SP**
Arsenic	<22.1	22.1	44.1		mg/Kg-dry	5	06/29/23 12:44 PM
Cadmium	<4.41	4.41	13.2		mg/Kg-dry	5	06/29/23 12:44 PM
Chromium	31.0	22.1	88.2	J	mg/Kg-dry	5	06/29/23 12:44 PM
Copper	227	22.1	88.2		mg/Kg-dry	5	06/29/23 12:44 PM
Lead	5.55	4.41	13.2	J	mg/Kg-dry	5	06/29/23 12:44 PM
Molybdenum	<22.1	22.1	88.2		mg/Kg-dry	5	06/29/23 12:44 PM
Nickel	<22.1	22.1	88.2		mg/Kg-dry	5	06/29/23 12:44 PM
Selenium	<6.62	6.62	22.1		mg/Kg-dry	5	06/29/23 12:44 PM
Zinc	824	44.1	110		mg/Kg-dry	5	06/29/23 12:44 PM
MERCURY TOTAL: SOIL/SOLID		**SW7471B**					Analyst: **CMC**
Mercury	<0.706	0.706	1.77		mg/Kg-dry	1	07/03/23 10:10 AM
TCLP MERCURY		**SW1311/7470A**					Analyst: **CMC**
Mercury	<0.000400	0.000400	0.00100		mg/L	1	07/05/23 11:28 AM
TCLP METALS		**SW1311/6020B**					Analyst: **SP**
Arsenic	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 03:00 PM
Barium	0.0594	0.0150	0.0500		mg/L	1	06/30/23 03:00 PM
Cadmium	<0.00150	0.00150	0.00500		mg/L	1	06/30/23 03:00 PM
Chromium	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 03:00 PM
Lead	<0.00150	0.00150	0.00500		mg/L	1	06/30/23 03:00 PM
Selenium	<0.0100	0.0100	0.0250		mg/L	1	06/30/23 03:00 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: *10-Jul-23*

CLIENT:	Pollution Control Services	**Client Sample ID:**	724729
Project:	PCS 724729	**Lab ID:**	2306293-01
Project No:		**Collection Date:**	06/21/23 09:15 AM
Lab Order:	2306293	**Matrix:**	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP METALS		**SW1311/6020B**					Analyst: **SP**
Silver	<0.00500	0.00500	0.0100		mg/L	1	06/30/23 03:00 PM
TCLP PESTICIDES BY GC/MS		**SW1311/8270E**					Analyst: **DEW**
Chlordane	<0.000589	0.000589	0.00196		mg/L	1	07/05/23 02:39 PM
Endrin	<0.0000982	0.0000982	0.000295		mg/L	1	07/05/23 02:39 PM
gamma-BHC	<0.0000982	0.0000982	0.000295		mg/L	1	07/05/23 02:39 PM
Heptachlor	<0.0000982	0.0000982	0.000295		mg/L	1	07/05/23 02:39 PM
Heptachlor + epoxide	<0.0000982	0.0000982	0.000295		mg/L	1	07/05/23 02:39 PM
Heptachlor epoxide	<0.0000982	0.0000982	0.000295		mg/L	1	07/05/23 02:39 PM
Methoxychlor	<0.0000982	0.0000982	0.000491		mg/L	1	07/05/23 02:39 PM
Toxaphene	<0.00393	0.00393	0.0123		mg/L	1	07/05/23 02:39 PM
Surr: 2-Fluorobiphenyl	69.4	0	48-120		%REC	1	07/05/23 02:39 PM
Surr: 4-Terphenyl-d14	81.3	0	51-135		%REC	1	07/05/23 02:39 PM
TCLP SEMI-VOLATILES		**SW1311/8270E**					Analyst: **DEW**
1,4-Dichlorobenzene	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
2,4,5-Trichlorophenol	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
2,4,6-Trichlorophenol	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
2,4-Dinitrotoluene	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
2-Methylphenol	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
3&4-Methylphenol	0.0113	0.00973	0.0389	J	mg/L	1	06/30/23 06:45 PM
Hexachlorobenzene	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
Hexachlorobutadiene	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
Hexachloroethane	<0.00973	0.00973	0.0389		mg/L	1	06/30/23 06:45 PM
Nitrobenzene	<0.0195	0.0195	0.0389		mg/L	1	06/30/23 06:45 PM
Pentachlorophenol	<0.0195	0.0195	0.0389		mg/L	1	06/30/23 06:45 PM
Pyridine	<0.0389	0.0389	0.0973		mg/L	1	06/30/23 06:45 PM
Surr: 2,4,6-Tribromophenol	96.0	0	42-124		%REC	1	06/30/23 06:45 PM
Surr: 2-Fluorobiphenyl	65.0	0	48-120		%REC	1	06/30/23 06:45 PM
Surr: 2-Fluorophenol	72.3	0	20-120		%REC	1	06/30/23 06:45 PM
Surr: 4-Terphenyl-d14	79.5	0	51-135		%REC	1	06/30/23 06:45 PM
Surr: Nitrobenzene-d5	77.3	0	41-120		%REC	1	06/30/23 06:45 PM
Surr: Phenol-d5	60.5	0	20-120		%REC	1	06/30/23 06:45 PM
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
1,1-Dichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
1,2-Dichloroethane	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
1,4-Dichlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
2-Butanone	<0.0500	0.0500	0.150		mg/L	10	06/30/23 11:43 AM
Benzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM

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: *10-Jul-23*

CLIENT:	Pollution Control Services	**Client Sample ID:**	724729
Project:	PCS 724729	**Lab ID:**	2306293-01
Project No:		**Collection Date:**	06/21/23 09:15 AM
Lab Order:	2306293	**Matrix:**	SLUDGE

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260D**					Analyst: **JVR**
Carbon tetrachloride	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Chlorobenzene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Chloroform	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Hexachlorobutadiene	<0.0100	0.0100	0.0300		mg/L	10	06/30/23 11:43 AM
Tetrachloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Trichloroethene	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Vinyl chloride	<0.00300	0.00300	0.0100		mg/L	10	06/30/23 11:43 AM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	10	06/30/23 11:43 AM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	10	06/30/23 11:43 AM
Surr: Dibromofluoromethane	107	0	85-115		%REC	10	06/30/23 11:43 AM
Surr: Toluene-d8	99.7	0	81-120		%REC	10	06/30/23 11:43 AM
PERCENT MOISTURE		**D2216**					Analyst: **SMA**
Percent Moisture	98.1	0	0		WT%	1	06/27/23 08:03 AM

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:** *10-Jul-23*

CLIENT: Pollution Control Services
Work Order: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_230629A

The QC data in batch 110921 applies to the following samples: 2306293-01B

Sample ID: **MB-110921**	Batch ID: **110921**	TestNo: **SW8082A**		Units:	**mg/Kg**
SampType: **MBLK**	Run ID: **GC16_230629A**	Analysis Date: **6/29/2023 3:58:00 PM**		Prep Date:	**6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.100								
Aroclor 1221	ND	0.100								
Aroclor 1232	ND	0.100								
Aroclor 1242	ND	0.100								
Aroclor 1248	ND	0.100								
Aroclor 1254	ND	0.100								
Aroclor 1260	ND	0.100								
Total PCB	ND	0.100								
Surr: Decachlorobiphenyl	0.0925		0.1000		92.5	58	125			
Surr: Tetrachloro-m-xylene	0.0934		0.1000		93.4	40	130			

Sample ID: **LCS-110921**	Batch ID: **110921**	TestNo: **SW8082A**		Units:	**mg/Kg**
SampType: **LCS**	Run ID: **GC16_230629A**	Analysis Date: **6/29/2023 6:05:00 PM**		Prep Date:	**6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.825	0.100	1.000	0	82.5	41	138			
Aroclor 1260	0.812	0.100	1.000	0	81.2	61	131			
Total PCB	1.64	0.100	2.000	0	81.9	41	138			
Surr: Decachlorobiphenyl	0.104		0.1000		104	58	125			
Surr: Tetrachloro-m-xylene	0.102		0.1000		102	40	130			

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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	Page 1 of 19
	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_230629A

The QC data in batch 110924 applies to the following samples: 2306293-01A

Sample ID: MB-110924	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MBLK	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:05:31 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	ND	0.000300								
Silvex (2,4,5-TP)	ND	0.000300								
Surr: CPMBA	0.00163		0.002200		74.2	50	130			
Surr: DCAA	0.00191		0.002200		86.6	50	130			

Sample ID: MB-110891-TCLP	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MBLK	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:23:53 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	ND	0.00262								
Silvex (2,4,5-TP)	ND	0.00262								
Surr: CPMBA	0.0148		0.01919		77.2	50	130			
Surr: DCAA	0.0168		0.01919		87.7	50	130			

Sample ID: LCS-110924	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: LCS	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 7:42:14 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.00154	0.000300	0.002200	0	70.2	39	120			
Silvex (2,4,5-TP)	0.00165	0.000300	0.002200	0	74.8	49	126			
Surr: CPMBA	0.00183		0.002200		83.2	50	130			
Surr: DCAA	0.00212		0.002200		96.4	50	130			

Sample ID: 2306245-01AMS	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MS	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 8:00:36 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0178	0.00266	0.01949	0	91.3	39	120			
Silvex (2,4,5-TP)	0.0172	0.00266	0.01949	0	88.5	49	126			
Surr: CPMBA	0.0177		0.01949		90.6	50	130			
Surr: DCAA	0.0213		0.01949		109	50	130			

Sample ID: 2306245-01AMSD	Batch ID: 110924	TestNo: SW1311/8321B	Units: mg/L
SampType: MSD	Run ID: LCMS2_230629A	Analysis Date: 6/29/2023 8:18:59 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-D	0.0163	0.00245	0.01797	0	90.7	39	120	8.75	30	
Silvex (2,4,5-TP)	0.0170	0.00245	0.01797	0	94.6	49	126	1.38	30	
Surr: CPMBA	0.0173		0.01797		96.1	50	130	0	0	
Surr: DCAA	0.0189		0.01797		105	50	130	0	30	

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230703A

The QC data in batch 110917 applies to the following samples: 2306293-01B

Sample ID: MB-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: MBLK	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:25:28 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: LCS-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: LCS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:27:44 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.206	0.0400	0.2000	0	103	85	115			

Sample ID: LCSD-110917	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg
SampType: LCSD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 9:30:00 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.205	0.0400	0.2000	0	103	85	115	0.487	25	

Sample ID: 2306311-01AMS	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:17:41 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.256	0.0396	0.1978	0.06463	96.8	80	120			

Sample ID: 2306311-01AMSD	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:19:58 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.244	0.0388	0.1942	0.06463	92.2	80	120	4.98	25	

Sample ID: 2306311-01ASD	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: SD	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:22:14 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.195	0	0.06463				0	10	

Sample ID: 2306311-01APDS	Batch ID: 110917	TestNo: SW7471B	Units: mg/Kg-dry
SampType: PDS	Run ID: CETAC2_HG_230703A	Analysis Date: 7/3/2023 10:24:30 AM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.297	0.0390	0.2437	0.06463	95.5	85	115			

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230705A

The QC data in batch 110970 applies to the following samples: 2306293-01A

Sample ID: MB-110970	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:07:59 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID: MB-TCLP-110890	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:10:15 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID: LCS-110970	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: LCS	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:12:31 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00182	0.000200	0.002000	0	91.0	85	115			

Sample ID: LCSD-110970	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: LCSD	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:14:47 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00180	0.000200	0.002000	0	90.0	85	115	1.10	15	

Sample ID: 2306292-01AMS	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MS	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:23:53 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00920	0.00100	0.01000	0	92.0	80	120			

Sample ID: 2306292-01AMSD	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MSD	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:26:09 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00900	0.00100	0.01000	0	90.0	80	120	2.20	15	

Sample ID: 2306340-02BMS	Batch ID: 110970	TestNo: SW1311/7470A	Units: mg/L
SampType: MS	Run ID: CETAC2_HG_230705A	Analysis Date: 7/5/2023 11:46:33 AM	Prep Date: 7/3/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00182	0.000200	0.002000	0	91.0	80	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_230705A

Sample ID: **2306340-02BMSD**	Batch ID: **110970**	TestNo: **SW1311/7470A**	Units: **mg/L**				
SampType: **MSD**	Run ID: **CETAC2_HG_230705A**	Analysis Date: **7/5/2023 11:48:49 AM**	Prep Date: **7/3/2023**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00182	0.000200	0.002000	0	91.0	80	120	0	15	

Sample ID: **2306340-02BSD**	Batch ID: **110970**	TestNo: **SW1311/7470A**	Units: **mg/L**				
SampType: **SD**	Run ID: **CETAC2_HG_230705A**	Analysis Date: **7/5/2023 11:51:05 AM**	Prep Date: **7/3/2023**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID: **2306340-02BPDS**	Batch ID: **110970**	TestNo: **SW1311/7470A**	Units: **mg/L**				
SampType: **PDS**	Run ID: **CETAC2_HG_230705A**	Analysis Date: **7/5/2023 11:53:21 AM**	Prep Date: **7/3/2023**				

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00233	0.000200	0.002500	0	93.2	85	115			

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

The QC data in batch 110867 applies to the following samples: 2306293-01B

Sample ID: **MB-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:52:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Copper	ND	2.00								
Lead	ND	0.300								
Molybdenum	ND	2.00								
Nickel	ND	2.00								
Selenium	ND	0.500								
Zinc	ND	2.50								

Sample ID: **LCS-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:55:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.4	1.00	50.00	0	101	80	120			
Cadmium	50.1	0.300	50.00	0	100	80	120			
Chromium	50.7	2.00	50.00	0	101	80	120			
Copper	51.6	2.00	50.00	0	103	80	120			
Lead	49.8	0.300	50.00	0	99.6	80	120			
Molybdenum	49.1	2.00	50.00	0	98.2	80	120			
Nickel	51.0	2.00	50.00	0	102	80	120			
Selenium	48.2	0.500	50.00	0	96.3	80	120			
Zinc	50.8	2.50	50.00	0	102	80	120			

Sample ID: **LCSD-110867** Batch ID: **110867** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_230629A** Analysis Date: **6/29/2023 11:57:00 AM** Prep Date: **6/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.0	1.00	50.00	0	100	80	120	0.803	25	
Cadmium	49.7	0.300	50.00	0	99.4	80	120	0.812	25	
Chromium	50.3	2.00	50.00	0	101	80	120	0.839	25	
Copper	50.9	2.00	50.00	0	102	80	120	1.34	25	
Lead	49.3	0.300	50.00	0	98.6	80	120	1.02	25	
Molybdenum	48.8	2.00	50.00	0	97.5	80	120	0.696	25	
Nickel	50.6	2.00	50.00	0	101	80	120	0.896	25	
Selenium	47.9	0.500	50.00	0	95.7	80	120	0.654	25	
Zinc	49.8	2.50	50.00	0	99.5	80	120	1.97	25	

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

Sample ID: 2306288-13A SD	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:05:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	6.27	5.19	0	6.205				1.01	20	
Cadmium	0.870	1.56	0	0.7894				9.70	20	
Chromium	33.3	10.4	0	31.70				5.01	20	
Copper	24.1	10.4	0	23.03				4.60	20	
Lead	154	1.56	0	157.5				2.31	20	
Molybdenum	0	10.4	0	0				0	20	
Nickel	22.7	10.4	0	21.63				4.64	20	
Selenium	0	2.60	0	0.5263				0	20	
Zinc	250	13.0	0	239.6				4.41	20	

Sample ID: 2306288-13A PDS	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:31:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	56.9	1.04	51.93	6.205	97.7	75	125			
Cadmium	52.3	0.312	51.93	0.7894	99.2	75	125			
Chromium	81.8	2.08	51.93	31.70	96.5	75	125			
Copper	74.1	2.08	51.93	23.03	98.4	75	125			
Lead	209	0.312	51.93	157.5	98.8	75	125			
Molybdenum	50.4	2.08	51.93	0	97.0	75	125			
Nickel	72.9	2.08	51.93	21.63	98.8	75	125			
Selenium	48.6	0.519	51.93	0.5263	92.6	75	125			
Zinc	287	2.60	51.93	239.6	91.1	75	125			

Sample ID: 2306288-13A MS	Batch ID: 110867	TestNo: SW6020B	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS5_230629A	Analysis Date: 6/29/2023 12:33:00 PM	Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	59.4	1.06	52.84	6.205	101	75	125			
Cadmium	54.1	0.317	52.84	0.7894	101	75	125			
Chromium	88.4	2.11	52.84	31.70	107	75	125			
Copper	74.5	2.11	52.84	23.03	97.3	75	125			
Lead	272	0.317	52.84	157.5	216	75	125			S
Molybdenum	50.5	2.11	52.84	0	95.6	75	125			
Nickel	80.1	2.11	52.84	21.63	111	75	125			
Selenium	49.1	0.528	52.84	0.5263	91.9	75	125			
Zinc	281	2.64	52.84	239.6	77.6	75	125			

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230629A

Sample ID: 2306288-13A MSD | Batch ID: 110867 | TestNo: SW6020B | Units: mg/Kg-dry
SampType: MSD | Run ID: ICP-MS5_230629A | Analysis Date: 6/29/2023 12:36:00 PM | Prep Date: 6/27/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	57.5	1.02	51.06	6.205	100	75	125	3.26	25	
Cadmium	52.9	0.306	51.06	0.7894	102	75	125	2.26	25	
Chromium	82.2	2.04	51.06	31.70	99.0	75	125	7.19	25	
Copper	80.3	2.04	51.06	23.03	112	75	125	7.51	25	
Lead	219	0.306	51.06	167.5	121	75	125	21.3	25	
Molybdenum	50.3	2.04	51.06	0	98.5	75	125	0.422	25	
Nickel	70.9	2.04	51.06	21.83	96.5	75	125	12.3	25	
Selenium	49.0	0.511	51.06	0.5263	95.0	75	125	0.078	25	
Zinc	285	2.55	51.06	239.6	89.1	75	125	1.59	25	

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

The QC data in batch 110942 applies to the following samples: 2306293-01A

Sample ID: **MB-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:30:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Chromium	ND	0.00500								
Lead	ND	0.00100								
Selenium	ND	0.00500								
Silver	ND	0.00200								

Sample ID: **MB-110890-TCLP** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:33:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0250								
Barium	ND	0.0500								
Cadmium	ND	0.00500								
Chromium	ND	0.0250								
Lead	ND	0.00500								
Selenium	ND	0.0250								
Silver	ND	0.0100								

Sample ID: **LCS-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:45:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.2000	0	101	80	120			
Barium	0.202	0.0100	0.2000	0	101	80	120			
Cadmium	0.200	0.00100	0.2000	0	99.8	80	120			
Chromium	0.201	0.00500	0.2000	0	101	80	120			
Lead	0.192	0.00100	0.2000	0	96.0	80	120			
Selenium	0.193	0.00500	0.2000	0	96.6	80	120			
Silver	0.201	0.00200	0.2000	0	101	80	120			

Sample ID: **LCSD-110942** Batch ID: **110942** TestNo: **SW1311/6020B** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS5_230630C** Analysis Date: **6/30/2023 2:47:00 PM** Prep Date: **6/30/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.2000	0	101	80	120	0.098	15	
Barium	0.202	0.0100	0.2000	0	101	80	120	0.135	15	
Cadmium	0.200	0.00100	0.2000	0	100	80	120	0.159	15	
Chromium	0.202	0.00500	0.2000	0	101	80	120	0.527	15	

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

Sample ID: LCSD-110942	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 2:47:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.196	0.00100	0.2000	0	98.1	80	120	2.09	15	
Selenium	0.193	0.00500	0.2000	0	96.5	80	120	0.119	15	
Silver	0.203	0.00200	0.2000	0	102	80	120	1.03	15	

Sample ID: 2306292-01A SD	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 2:55:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.125	0	0				0	20	
Barium	0	0.250	0	0.05354				0	20	
Cadmium	0	0.0250	0	0				0	20	
Chromium	0	0.125	0	0				0	20	
Lead	0	0.0250	0	0				0	20	
Selenium	0	0.125	0	0				0	20	
Silver	0	0.0500	0	0				0	20	

Sample ID: 2306292-01A PDS	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 3:18:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.989	0.0250	1.000	0	98.9	75	125			
Barium	1.10	0.0500	1.000	0.05354	104	75	125			
Cadmium	1.02	0.00500	1.000	0	102	75	125			
Chromium	1.04	0.0250	1.000	0	104	75	125			
Lead	0.998	0.00500	1.000	0	99.8	75	125			
Selenium	0.938	0.0250	1.000	0	93.8	75	125			
Silver	1.03	0.0100	1.000	0	103	75	125			

Sample ID: 2306292-01A MS	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: MS	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 3:24:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.981	0.0250	1.000	0	98.1	75	125			
Barium	1.07	0.0500	1.000	0.05354	102	75	125			
Cadmium	1.00	0.00500	1.000	0	100	75	125			
Chromium	1.01	0.0250	1.000	0	101	75	125			
Lead	0.979	0.00500	1.000	0	97.9	75	125			
Selenium	0.923	0.0250	1.000	0	92.3	75	125			
Silver	1.01	0.0100	1.000	0	101	75	125			

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_230630C

Sample ID: 2306282-01A MSD	Batch ID: 110942	TestNo: SW1311/6020B	Units: mg/L
SampType: MSD	Run ID: ICP-MS5_230630C	Analysis Date: 6/30/2023 3:26:00 PM	Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.975	0.0250	1.000	0	97.5	75	125	0.641	15	
Barium	1.09	0.0500	1.000	0.05354	104	75	125	1.86	15	
Cadmium	1.01	0.00500	1.000	0	101	75	125	0.702	15	
Chromium	1.01	0.0250	1.000	0	101	75	125	0.202	15	
Lead	0.991	0.00500	1.000	0	99.1	75	125	1.20	15	
Selenium	0.926	0.0250	1.000	0	92.6	75	125	0.359	15	
Silver	1.02	0.0100	1.000	0	102	75	125	0.794	15	

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_230705A

The QC data in batch 110978 applies to the following samples: 2306293-01A

Sample ID: **LCS-110978** Batch ID: **110978** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS10_230705A** Analysis Date: **7/5/2023 10:36:00 AM** Prep Date: **7/3/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000396	0.0000300	0.0004000	0	99.1	55	135			
gamma-BHC	0.000282	0.0000300	0.0004000	0	70.5	25	135			
Heptachlor	0.000305	0.0000300	0.0004000	0	76.1	40	130			
Heptachlor epoxide	0.000306	0.0000300	0.0004000	0	76.5	60	130			
Methoxychlor	0.000339	0.0000500	0.0004000	0	84.7	55	150			
Heptachlor + epoxide	0.000611	0.0000300	0.0008000	0	76.3	40	130			
Surr: 2-Fluorobiphenyl	0.00276		0.004000		69.0	48	120			
Surr: 4-Terphenyl-d14	0.00299		0.004000		74.8	51	135			

Sample ID: **LCSD-110978** Batch ID: **110978** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS10_230705A** Analysis Date: **7/5/2023 11:11:00 AM** Prep Date: **7/3/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	0.000402	0.0000300	0.0004000	0	101	55	135	1.48	30	
gamma-BHC	0.000280	0.0000300	0.0004000	0	70.1	25	135	0.569	30	
Heptachlor	0.000284	0.0000300	0.0004000	0	71.1	40	130	6.83	30	
Heptachlor epoxide	0.000326	0.0000300	0.0004000	0	81.6	60	130	6.39	30	
Methoxychlor	0.000331	0.0000500	0.0004000	0	82.6	55	150	2.47	30	
Heptachlor + epoxide	0.000611	0.0000300	0.0008000	0	76.3	40	130	0.013	30	
Surr: 2-Fluorobiphenyl	0.00258		0.004000		64.5	48	120	0	0	
Surr: 4-Terphenyl-d14	0.00294		0.004000		73.4	51	135	0	0	

Sample ID: **MB-110978** Batch ID: **110978** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS10_230705A** Analysis Date: **7/5/2023 12:55:00 PM** Prep Date: **7/3/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.000200								
Endrin	ND	0.0000300								
gamma-BHC	ND	0.0000300								
Heptachlor	ND	0.0000300								
Heptachlor epoxide	ND	0.0000300								
Methoxychlor	ND	0.0000500								
Toxaphene	ND	0.00125								
Heptachlor + epoxide	ND	0.0000300								
Surr: 2-Fluorobiphenyl	0.00280		0.004000		69.9	48	120			
Surr: 4-Terphenyl-d14	0.00311		0.004000		77.7	51	135			

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

The QC data in batch 110926 applies to the following samples: 2306293-01A

Sample ID: **LCS-110926** Batch ID: **110926** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS9_230630A** Analysis Date: **6/30/2023 1:57:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0266	0.00400	0.04000	0	66.5	30	125			
2,4,5-Trichlorophenol	0.0339	0.00400	0.04000	0	84.8	49	120			
2,4,6-Trichlorophenol	0.0330	0.00400	0.04000	0	82.4	49	126			
2,4-Dinitrotoluene	0.0365	0.00400	0.04000	0	91.3	51	120			
2-Methylphenol	0.0233	0.00400	0.04000	0	58.3	38	120			
3&4-Methylphenol	0.0224	0.00400	0.04000	0	56.1	32	120			
Hexachlorobenzene	0.0316	0.00400	0.04000	0	79.0	52	120			
Hexachlorobutadiene	0.0273	0.00400	0.04000	0	68.4	27	120			
Hexachloroethane	0.0260	0.00400	0.04000	0	64.9	28	120			
Nitrobenzene	0.0314	0.00400	0.04000	0	78.6	44	120			
Pentachlorophenol	0.0364	0.00400	0.04000	0	90.9	38	120			
Pyridine	0.0104	0.0100	0.04000	0	26.0	20	120			
Surr: 2,4,6-Tribromophenol	0.0722		0.08000		90.2	42	124			
Surr: 2-Fluorobiphenyl	0.0538		0.08000		67.2	48	120			
Surr: 2-Fluorophenol	0.0414		0.08000		51.8	20	120			
Surr: 4-Terphenyl-d14	0.0570		0.08000		71.2	51	135			
Surr: Nitrobenzene-d5	0.0604		0.08000		75.5	41	120			
Surr: Phenol-d6	0.0266		0.08000		33.2	20	120			

Sample ID: **2306245-01AMS** Batch ID: **110926** TestNo: **SW1311/8270E** Units: **mg/L**
SampType: **MS** Run ID: **GCMS9_230630A** Analysis Date: **6/30/2023 2:19:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.184	0.0371	0.3711	0	49.6	30	125			
2,4,5-Trichlorophenol	0.0371	0.0371	0.3711	0	10.0	49	120			S
2,4,6-Trichlorophenol	0.0349	0.0371	0.3711	0	9.40	49	126			S
2,4-Dinitrotoluene	0.262	0.0371	0.3711	0	70.5	51	120			
2-Methylphenol	0.0798	0.0371	0.3711	0	21.5	38	120			S
3&4-Methylphenol	0.0686	0.0371	0.3711	0	18.5	32	120			S
Hexachlorobenzene	0.234	0.0371	0.3711	0	63.0	52	120			
Hexachlorobutadiene	0.195	0.0371	0.3711	0	52.5	27	120			
Hexachloroethane	0.180	0.0371	0.3711	0	48.5	28	120			
Nitrobenzene	0.226	0.0371	0.3711	0	61.0	44	120			
Pentachlorophenol	0.0735	0.0371	0.3711	0	19.8	38	120			S
Pyridine	0.140	0.0928	0.3711	0	37.8	20	120			
Surr: 2,4,6-Tribromophenol	0.100		0.7421		13.5	42	124			S
Surr: 2-Fluorobiphenyl	0.388		0.7421		52.2	48	120			
Surr: 2-Fluorophenol	0.0649		0.7421		8.75	20	120			S
Surr: 4-Terphenyl-d14	0.440		0.7421		59.2	51	135			
Surr: Nitrobenzene-d5	0.425		0.7421		57.2	41	120			

Qualifiers:
B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL
DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Pollution Control Services
Work Order: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

Sample ID: 2306245-01AMS	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MS	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 2:19:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d5	0.0686		0.7421		9.25	20	120			S

Sample ID: 2306245-01AMSD	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MSD	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 2:41:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.251	0.0372	0.3717	0	67.4	30	125	30.6	20	R
2,4,5-Trichlorophenol	0.185	0.0372	0.3717	0	49.8	49	120	133	20	R
2,4,6-Trichlorophenol	0.171	0.0372	0.3717	0	46.0	49	126	132	20	SR
2,4-Dinitrotoluene	0.316	0.0372	0.3717	0	85.0	51	120	18.9	20	
2-Methylphenol	0.187	0.0372	0.3717	0	50.4	38	120	80.5	20	R
3&4-Methylphenol	0.181	0.0372	0.3717	0	48.8	32	120	90.2	20	R
Hexachlorobenzene	0.302	0.0372	0.3717	0	81.3	52	120	25.5	20	R
Hexachlorobutadiene	0.272	0.0372	0.3717	0	73.1	27	120	33.0	20	R
Hexachloroethane	0.252	0.0372	0.3717	0	67.8	28	120	33.3	20	R
Nitrobenzene	0.305	0.0372	0.3717	0	82.0	44	120	29.6	20	R
Pentachlorophenol	0.236	0.0372	0.3717	0	63.6	38	120	105	20	R
Pyridine	0.0942	0.0929	0.3717	0	25.4	20	120	39.1	20	R
Surr: 2,4,6-Tribromophenol	0.426		0.7435		57.2	42	124	0	0	
Surr: 2-Fluorobiphenyl	0.496		0.7435		66.8	48	120	0	0	
Surr: 2-Fluorophenol	0.301		0.7435		40.5	20	120	0	0	
Surr: 4-Terphenyl-d14	0.530		0.7435		71.2	51	135	0	0	
Surr: Nitrobenzene-d5	0.572		0.7435		77.0	41	120	0	0	
Surr: Phenol-d5	0.283		0.7435		38.0	20	120	0	0	

Sample ID: MB-110926	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:26:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.00400								
2,4,5-Trichlorophenol	ND	0.00400								
2,4,6-Trichlorophenol	ND	0.00400								
2,4-Dinitrotoluene	ND	0.00400								
2-Methylphenol	ND	0.00400								
3&4-Methylphenol	ND	0.00400								
Hexachlorobenzene	ND	0.00400								
Hexachlorobutadiene	ND	0.00400								
Hexachloroethane	ND	0.00400								
Nitrobenzene	ND	0.00400								
Pentachlorophenol	ND	0.00400								
Pyridine	ND	0.0100								

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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_230630A

Sample ID: MB-110926	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:26:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	0.0754		0.08000		94.3	42	124			
Surr: 2-Fluorobiphenyl	0.0494		0.08000		61.8	48	120			
Surr: 2-Fluorophenol	0.0314		0.08000		39.3	20	120			
Surr: 4-Terphenyl-d14	0.0580		0.08000		72.5	51	135			
Surr: Nitrobenzene-d5	0.0588		0.08000		73.5	41	120			
Surr: Phenol-d5	0.0164		0.08000		20.5	20	120			

Sample ID: MB-110891-TCLP	Batch ID: 110926	TestNo: SW1311/8270E	Units: mg/L
SampType: MBLK	Run ID: GCMS9_230630A	Analysis Date: 6/30/2023 3:48:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.0368	0							
2,4,5-Trichlorophenol	ND	0.0368	0							
2,4,6-Trichlorophenol	ND	0.0368	0							
2,4-Dinitrotoluene	ND	0.0368	0							
2-Methylphenol	ND	0.0368	0							
3&4-Methylphenol	ND	0.0368	0							
Hexachlorobenzene	ND	0.0368	0							
Hexachlorobutadiene	ND	0.0368	0							
Hexachloroethane	ND	0.0368	0							
Nitrobenzene	ND	0.0368	0							
Pentachlorophenol	ND	0.0368	0							
Pyridine	ND	0.0919	0							
Surr: 2,4,6-Tribromophenol	0.667		0.7353		90.8	42	124			
Surr: 2-Fluorobiphenyl	0.454		0.7353		61.8	48	120			
Surr: 2-Fluorophenol	0.491		0.7353		66.8	20	120			
Surr: 4-Terphenyl-d14	0.550		0.7353		74.8	51	135			
Surr: Nitrobenzene-d5	0.546		0.7353		74.2	41	120			
Surr: Phenol-d5	0.403		0.7353		54.8	20	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

The QC data in batch 110932 applies to the following samples: 2306293-01A

Sample ID: **LCS-110932** Batch ID: **110932** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_230629B** Analysis Date: **6/29/2023 3:46:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0233	0.00100	0.02320	0	100	68	130			
1,2-Dichloroethane	0.0244	0.00100	0.02320	0	105	69	132			
1,4-Dichlorobenzene	0.0244	0.00100	0.02320	0	105	74	123			
2-Butanone	0.132	0.0150	0.1160	0	113	49	136			
Benzene	0.0241	0.00100	0.02320	0	104	81	122			
Carbon tetrachloride	0.0230	0.00100	0.02320	0	99.1	66	138			
Chlorobenzene	0.0237	0.00100	0.02320	0	102	81	122			
Chloroform	0.0242	0.00100	0.02320	0	104	69	128			
Hexachlorobutadiene	0.0246	0.00300	0.02320	0	106	67	131			
Tetrachloroethene	0.0232	0.00100	0.02320	0	99.9	66	128			
Trichloroethene	0.0236	0.00100	0.02320	0	102	70	127			
Vinyl chloride	0.0258	0.00100	0.02320	0	111	50	134			
Surr: 1,2-Dichloroethane-d4	0.204		0.2000		102	72	119			
Surr: 4-Bromofluorobenzene	0.196		0.2000		97.9	76	119			
Surr: Dibromofluoromethane	0.210		0.2000		105	85	115			
Surr: Toluene-d8	0.196		0.2000		97.8	81	120			

Sample ID: **MB-110932** Batch ID: **110932** TestNo: **SW1311/8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_230629B** Analysis Date: **6/29/2023 4:48:00 PM** Prep Date: **6/29/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloroethane	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
2-Butanone	ND	0.0150								
Benzene	ND	0.00100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroform	ND	0.00100								
Hexachlorobutadiene	ND	0.00300								
Tetrachloroethene	ND	0.00100								
Trichloroethene	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.213		0.2000		106	72	119			
Surr: 4-Bromofluorobenzene	0.200		0.2000		99.9	76	119			
Surr: Dibromofluoromethane	0.213		0.2000		107	85	115			
Surr: Toluene-d8	0.199		0.2000		99.3	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

Sample ID: 2306340-02AMS	Batch ID: 110932	TestNo: SW1311/8260D	Units: mg/L
SampType: MS	Run ID: GCMS5_230629B	Analysis Date: 6/29/2023 10:01:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0212	0.00100	0.02320	0	91.4	68	130			
1,2-Dichloroethane	0.0222	0.00100	0.02320	0	95.8	69	132			
1,4-Dichlorobenzene	0.0216	0.00100	0.02320	0	93.2	74	123			
2-Butanone	0.0902	0.0150	0.1160	0	77.7	49	136			
Benzene	0.0221	0.00100	0.02320	0	95.3	81	122			
Carbon tetrachloride	0.0211	0.00100	0.02320	0	91.1	66	138			
Chlorobenzene	0.0216	0.00100	0.02320	0	93.0	81	122			
Chloroform	0.0221	0.00100	0.02320	0	95.1	69	128			
Hexachlorobutadiene	0.0204	0.00300	0.02320	0	88.0	67	131			
Tetrachloroethene	0.0211	0.00100	0.02320	0	90.9	66	128			
Trichloroethene	0.0213	0.00100	0.02320	0	91.7	70	127			
Vinyl chloride	0.0218	0.00100	0.02320	0	93.9	50	134			
Surr: 1,2-Dichloroethane-d4	0.204		0.2000		102	72	119			
Surr: 4-Bromofluorobenzene	0.194		0.2000		96.9	76	119			
Surr: Dibromofluoromethane	0.211		0.2000		105	85	115			
Surr: Toluene-d8	0.192		0.2000		95.8	81	120			

Sample ID: 2306340-02AMSD	Batch ID: 110932	TestNo: SW1311/8260D	Units: mg/L
SampType: MSD	Run ID: GCMS5_230629B	Analysis Date: 6/29/2023 10:27:00 PM	Prep Date: 6/29/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0216	0.00100	0.02320	0	93.0	68	130	1.83	20	
1,2-Dichloroethane	0.0220	0.00100	0.02320	0	94.9	69	132	0.963	20	
1,4-Dichlorobenzene	0.0220	0.00100	0.02320	0	94.8	74	123	1.76	20	
2-Butanone	0.0883	0.0150	0.1160	0	76.2	49	136	2.05	20	
Benzene	0.0222	0.00100	0.02320	0	95.7	81	122	0.469	20	
Carbon tetrachloride	0.0216	0.00100	0.02320	0	93.3	66	138	2.37	20	
Chlorobenzene	0.0216	0.00100	0.02320	0	92.9	81	122	0.148	20	
Chloroform	0.0219	0.00100	0.02320	0	94.6	69	128	0.523	20	
Hexachlorobutadiene	0.0210	0.00300	0.02320	0	90.5	67	131	2.80	20	
Tetrachloroethene	0.0209	0.00100	0.02320	0	90.2	66	128	0.686	20	
Trichloroethene	0.0213	0.00100	0.02320	0	91.7	70	127	0.028	20	
Vinyl chloride	0.0223	0.00100	0.02320	0	96.2	50	134	2.42	20	
Surr: 1,2-Dichloroethane-d4	0.203		0.2000		101	72	119	0	0	
Surr: 4-Bromofluorobenzene	0.195		0.2000		97.3	76	119	0	0	
Surr: Dibromofluoromethane	0.209		0.2000		105	85	115	0	0	
Surr: Toluene-d8	0.194		0.2000		97.0	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230629B

Sample ID: MB-TCLP-110936 Batch ID: 110932 TestNo: SW1311/8260D Units: mg/L
SampType: MBLK Run ID: GCMS5_230629B Analysis Date: 6/30/2023 10:24:00 AM Prep Date: 6/30/2023

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.0100	0							
1,2-Dichloroethane	ND	0.0100	0							
1,4-Dichlorobenzene	ND	0.0100	0							
2-Butanone	ND	0.150	0							
Benzene	ND	0.0100	0							
Carbon tetrachloride	ND	0.0100	0							
Chlorobenzene	ND	0.0100	0							
Chloroform	ND	0.0100	0							
Hexachlorobutadiene	ND	0.0300	0							
Tetrachloroethene	ND	0.0100	0							
Trichloroethene	ND	0.0100	0							
Vinyl chloride	ND	0.0100	0							
Surr: 1,2-Dichloroethane-d4	2.13		2.000		107	72	119			
Surr: 4-Bromofluorobenzene	2.01		2.000		100	76	119			
Surr: Dibromofluoromethane	2.13		2.000		107	85	115			
Surr: Toluene-d8	2.00		2.000		100	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: 2306293
Project: PCS 724729

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_230626B

The QC data in batch 110857 applies to the following samples: 2306293-01B

Sample ID: **2306288-20A-DUP**	Batch ID: **110857**	TestNo: **D2216**		Units:	**WT%**
SampType: **DUP**	Run ID: **PMOIST_230626B**	Analysis Date: **6/27/2023 8:03:00 AM**		Prep Date:	**6/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	22.4	0	0	21.34				4.63	30	

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 724729

PCS Sample No(s) 724729 **COC No.** _____

Client/Company Name: GBRA **Checklist Completed by:** JAA

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 6 / 6 °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:_____ Date _____ Time _____
pH paper used to check sample preservation (PCS log #): _____ (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: _____
_____

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Project
1079969

BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed 11/22/2023 16:34

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1

SAMPLE CROSS REFERENCE

Project
1079969

SOLID

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Sample	Sample ID	Taken	Time	Received
2246585	*Annual Sludge - TCLP + PCB 5 D*	11/07/2023	09:10:00	11/08/2023

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1090165) Volume: 10.00000 mL <== Derived from 01 (2 grams)
Bottle 04 Prepared Bottle: TCLP Extract (Batch 1090175) Volume: 2000.00000 mL <== Derived from 02 (100 ml)
Bottle 05 Prepared Bottle: TCLP Extract for Metals (Batch 1090175) Volume: 100.00000 mL <== Derived from 02 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract for TABN (Batch 1090175) Volume: 2000.00000 mL <== Derived from 02 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for TVOA (Batch 1090176)<== Derived from 02 (0 ml)
Bottle 08 Prepared Bottle: TEDLAR BAG (Batch 1090176) Volume: 300.00000 mL <== Derived from 02 (300 ml)
Bottle 09 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1090276) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 10 Prepared Bottle: TCLP Acid Digestion (Batch 1090505) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 11 Prepared Bottle: TCLP Acid Digestion (Batch 1090505) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 12 Prepared Bottle: TCLP Acid Digestion (Batch 1090505) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 13 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1090783) Volume: 10.00000 mL <== Derived from 06 (200 ml)
Bottle 14 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1090783) Volume: 10.00000 mL <== Derived from 06 (200 ml)
Bottle 15 Prepared Bottle: 2 mL Autosampler Vial (Batch 1090797) Volume: 1.00000 mL <== Derived from 06 (100 ml)
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1090797) Volume: 1.00000 mL <== Derived from 06 (100 ml)
Bottle 17 Prepared Bottle: 2 mL Autosampler Vial (Batch 1091028) Volume: 10.00000 mL <== Derived from 06 (1 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	03	1090165	11/09/2023	1090439	11/10/2023
EPA 6020A	10	1090505	11/13/2023	1090651	11/13/2023
EPA 7470 A	09	1090276	11/10/2023	1090345	11/10/2023
EPA 8260B	08	1090176	11/09/2023	1090475	11/10/2023
EPA 8081A	13	1090783	11/14/2023	1091591	11/16/2023
EPA 8270C	15	1090797	11/14/2023	1091439	11/16/2023
EPA 8151	17	1091028	11/15/2023	1091807	11/20/2023
SM2540 G-1997 /MOD	02	1090390	11/10/2023	1090390	11/10/2023

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Curtis Hancock
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Printed: 11/22/2023

RESULTS

Sample Results

2246585 **Annual Sludge - TCLP + PCB 5 D** Received: 11/08/2023

Solid & Chemical Materials | Collected by: Client | City of Bastrop | PO:
Taken: 11/07/2023 09:10:00

EPA 6020A Prepared: 1090505 11/13/2023 10:15:00 Analyzed 1090651 11/13/2023 19:47:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	10
NELAC	TCLP Barium	0.398	mg/L	0.050		7440-39-3	10
NELAC	TCLP Cadmium	<0.005	mg/L	0.005		7440-43-9	10
NELAC	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	10
NELAC	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	10
NELAC	TCLP Selenium	<0.050	mg/L	0.050		7782-49-2	10
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	10

EPA 7470 A Prepared: 1090276 11/10/2023 10:15:00 Analyzed 1090345 11/10/2023 13:11:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	09

EPA 8081A Prepared: 1090783 11/14/2023 13:35:00 Analyzed 1091591 11/16/2023 23:39:00 BLF

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	13
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	13
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	13
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	13
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	13
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	13
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	13

EPA 8082 Prepared: 1090165 11/09/2023 16:15:42 Analyzed 1090439 11/10/2023 11:47:00 BLF

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<1000 *	ug/kg	1000		12674-11-2	03
NELAC	PCB-1221	<1000 *	ug/kg	1000		11104-28-2	03

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Project 1079969

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed: 11/22/2023

2246585 Annual Sludge - TCLP + PCB 5 D — Received: 11/08/2023

Solid & Chemical Materials — Collected by: Client — City of Bastrop — PO:
Taken: 11/07/2023 09:10:00

EPA 8082 — Prepared: 1090165 11/09/2023 16:15:42 — Analyzed 1090439 11/10/2023 11:47:00 — BLF

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1232	<1000 *	ug/kg	1000		11141-16-5	03
NELAC	PCB-1242	<1000 *	ug/kg	1000		53469-21-9	03
NELAC	PCB-1248	<1000 *	ug/kg	1000		12672-29-6	03
NELAC	PCB-1254	<1000 *	ug/kg	1000		11097-69-1	03
NELAC	PCB-1260	<1000 *	ug/kg	1000	X	11096-82-5	03

* Dry Weight Basis

EPA 8151 — Prepared: 1091028 11/15/2023 14:20:00 — Analyzed 1091807 11/20/2023 17:16:00 — BLF

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	17
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	17

EPA 8260B — Prepared: 1090176 11/09/2023 16:15:00 — Analyzed 1090475 11/10/2023 18:00:00 — MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	08
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	08
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	08
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	08
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	08
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	08
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	08
NELAC	TCLP MEK	0.234	mg/L	0.100		78-93-3	08
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	08
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	08
NELAC	TCLP Vinyl chloride	<0.0104	mg/L	0.0104		75-01-4	08

EPA 8270C — Prepared: 1090797 11/14/2023 14:25:00 — Analyzed 1091439 11/16/2023 19:17:00 — DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.010	mg/L	0.010		95-95-4	15
NELAC	TCLP 2,4,6-Trichlorophenol	<0.010	mg/L	0.010		88-06-2	15
NELAC	TCLP 2,4-Dinitrotoluene	<0.035	mg/L	0.035		121-14-2	15
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.052	mg/L	0.052		95-48-7	15

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1311 Chestnut St.
Bastrop, TX 78602-0427

Printed: 11/22/2023

2246585 Annual Sludge - TCLP + PCB 5 D

Received: 11/08/2023

Solid & Chemical Materials | Collected by: Client | City of Bastrop | PO:
Taken: 11/07/2023 09:10:00

EPA 8270C Prepared: 1090797 11/14/2023 14:25:00 Analyzed 1091439 11/16/2023 19:17:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.062	mg/L	0.062		108-39-4	15
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	15
NELAC	TCLP Hexachlorobutadiene	<0.010	mg/L	0.010		87-68-3	15
NELAC	TCLP Hexachloroethane	<0.010	mg/L	0.010		67-72-1	15
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	15
NELAC	TCLP Pentachlorophenol	<0.010	mg/L	0.010		87-86-5	15
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.054	mg/L	0.054		110-86-1	15

EPA 8270C Prepared: 1090797 11/14/2023 14:25:00 Calculated 1091439 11/20/2023 16:01:19 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.062	mg/L	0.062		108-39-4,ect.	15

SM2540 G-1997 /MOD Prepared: 1090390 11/10/2023 07:39:00 Analyzed 1090390 11/10/2023 07:39:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	15.0	%	0.010			02

Sample Preparation

2246585 Annual Sludge - TCLP + PCB 5 D

Received: 11/08/2023

11/07/2023

Prepared: 11/09/2023 09:39:26 Calculated 11/09/2023 09:39:26 CAL

z	Environmental Fee (per Project)	Verified

Calculation Prepared: 11/21/2023 10:01:03 Calculated 11/21/2023 10:01:03 CAL

As Received to Dry Weight Basis	Calculated

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Printed: 11/22/2023

2246585 Annual Sludge - TCLP + PCB 5 D

Received: 11/08/2023

11/07/2023

	EPA 3510C	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090783*	*11/14/2023*	*13:35:00*	*MCC*	
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**								06
	EPA 3510C	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090797*	*11/14/2023*	*14:25:00*	*MCC*	
	TCLP Liquid-Liquid Extract	**1/100**	**ml**								06
	EPA 1311	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090175*	*11/09/2023*	*16:15:00*	*SLF*	
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**								02
	EPA 1311ZHE	*Prepared:*	*1090176*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090176*	*11/09/2023*	*16:15:00*	*SLF*	
NELAC	**TCLP Extraction ZHE Volatiles**	**100% SOLID**	**ml**								02
	EPA 3005A	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090505*	*11/13/2023*	*10:15:00*	*TES*	
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**								05
	EPA 3550B	*Prepared:*	*1090165*	*11/09/2023*	*16:15:42*	*Analyzed*	*1090165*	*11/09/2023*	*16:15:42*	*PEV*	
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/2.0**	**grams**								01
	EPA 7470A	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090276*	*11/10/2023*	*10:15:00*	*ALB*	
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**								05
	EPA 8081A	*Prepared:*	*1090783*	*11/14/2023*	*13:35:00*	*Analyzed*	*1091591*	*11/16/2023*	*23:39:00*	*BLF*	

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Project
1079969

Printed: 11/22/2023

2246585 **Annual Sludge - TCLP + PCB 5 D**

Received: 11/08/2023

11/07/2023

EPA 8081A	*Prepared:*	*1090783*	*11/14/2023*	*13:35:00*	*Analyzed*	*1091591*	*11/16/2023*	*23:39:00*	*BLF*	
NELAC	**GC TCLP Pesticide**	**Entered**								13
EPA 8082	*Prepared:*	*1090165*	*11/09/2023*	*16:15:42*	*Analyzed*	*1090439*	*11/10/2023*	*11:47:00*	*BLF*	
NELAC	**Polychlorinated Biphenyls**	**Entered**								03
EPA 8151	*Prepared:*	*1091028*	*11/15/2023*	*14:20:00*	*Analyzed*	*1091807*	*11/20/2023*	*17:16:00*	*BLF*	
NELAC	**GC TCLP Herbicide**	**Entered**								17
EPA 8151A (Prep)	*Prepared:*	*1090175*	*11/09/2023*	*16:15:00*	*Analyzed*	*1091028*	*11/15/2023*	*14:20:00*	*CED*	
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							06
EPA 8260B	*Prepared:*	*1090176*	*11/09/2023*	*16:15:00*	*Analyzed*	*1090475*	*11/10/2023*	*18:00:00*	*MR1*	
NELAC	**MS TCLP Volatile Analysis**	**Entered**								08
EPA 8270C	*Prepared:*	*1090797*	*11/14/2023*	*14:25:00*	*Analyzed*	*1091439*	*11/16/2023*	*19:17:00*	*DWL*	
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**								15
SM 2540 G-1997	*Prepared:*	*1090214*	*11/10/2023*	*07:39:00*	*Analyzed*	*1090214*	*11/10/2023*	*07:39:00*	*JK1*	
NELAC	**Total Solids Start Code**	**Started**								

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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Qualifiers:

X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Analytical Set 1090390 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1090390	0.0004			grams	125633011

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2245923	99.3	99.3	%	0	20.0
Total Solids for Dry Wt Conversi	2246458	78.3	78.4	%	0.128	20.0
Total Solids for Dry Wt Conversi	2246608	2.63	2.61	%	0.763	20.0

Analytical Set 1090345 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1090276	0.000191	0.000113	0.0002	mg/L	125632325

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00507	0.005	mg/L	101	90.0 - 110	125632305
TCLP Mercury	0.00498	0.005	mg/L	99.6	90.0 - 110	125632306
TCLP Mercury	0.005	0.005	mg/L	100	90.0 - 110	125632315
TCLP Mercury	0.00537	0.005	mg/L	107	90.0 - 110	125632324
TCLP Mercury	0.00512	0.005	mg/L	102	90.0 - 110	125632331
TCLP Mercury	0.00514	0.005	mg/L	103	90.0 - 110	125632335

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0199	0.02	mg/L	99.5	90.0 - 110	125632304

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00484	0.005	mg/L	96.8	90.0 - 110	125632303

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1090276	0.00952	0.00867	0.010	85.1 - 117	95.2	86.7	mg/L	9.35	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2246998	0.0868	0.0818	ND	0.100	80.9 - 121	86.8	81.8	mg/L	5.93	20.0

Analytical Set 1090651 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1090505	ND	0.010	0.010	mg/L	125640276
TCLP Barium	1090505	ND	0.010	0.010	mg/L	125640276
TCLP Cadmium	1090505	ND	0.001	0.001	mg/L	125640276
TCLP Chromium	1090505	ND	0.010	0.010	mg/L	125640276

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Lead	1090505	ND	0.010	0.010	mg/L	125640276
TCLP Selenium	1090505	ND	0.010	0.010	mg/L	125640276
TCLP Silver	1090505	ND	0.010	0.010	mg/L	125640276

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	0.0497	0.05	mg/L	99.4	90.0 - 110	125640272
TCLP Arsenic	0.050	0.05	mg/L	100	90.0 - 110	125640281
TCLP Arsenic	0.050	0.05	mg/L	100	90.0 - 110	125640291
TCLP Arsenic	0.0504	0.05	mg/L	101	90.0 - 110	125640301
TCLP Barium	0.052	0.05	mg/L	104	90.0 - 110	125640272
TCLP Barium	0.0515	0.05	mg/L	103	90.0 - 110	125640281
TCLP Barium	0.0517	0.05	mg/L	103	90.0 - 110	125640291
TCLP Barium	0.0517	0.05	mg/L	103	90.0 - 110	125640301
TCLP Cadmium	0.0495	0.05	mg/L	99.0	90.0 - 110	125640272
TCLP Cadmium	0.0498	0.05	mg/L	99.6	90.0 - 110	125640281
TCLP Cadmium	0.0499	0.05	mg/L	99.8	90.0 - 110	125640291
TCLP Cadmium	0.0499	0.05	mg/L	99.8	90.0 - 110	125640301
TCLP Chromium	0.0492	0.05	mg/L	98.4	90.0 - 110	125640272
TCLP Chromium	0.0496	0.05	mg/L	99.2	90.0 - 110	125640281
TCLP Chromium	0.0492	0.05	mg/L	98.4	90.0 - 110	125640291
TCLP Chromium	0.0492	0.05	mg/L	98.4	90.0 - 110	125640301
TCLP Lead	0.0522	0.05	mg/L	104	90.0 - 110	125640272
TCLP Lead	0.053	0.05	mg/L	106	90.0 - 110	125640281
TCLP Lead	0.0528	0.05	mg/L	106	90.0 - 110	125640291
TCLP Lead	0.0531	0.05	mg/L	106	90.0 - 110	125640301
TCLP Selenium	0.051	0.05	mg/L	102	90.0 - 110	125640272
TCLP Selenium	0.0507	0.05	mg/L	101	90.0 - 110	125640281
TCLP Selenium	0.0511	0.05	mg/L	102	90.0 - 110	125640291
TCLP Selenium	0.0528	0.05	mg/L	106	90.0 - 110	125640301
TCLP Silver	0.049	0.05	mg/L	98.0	90.0 - 110	125640272
TCLP Silver	0.0495	0.05	mg/L	99.0	90.0 - 110	125640281
TCLP Silver	0.0494	0.05	mg/L	98.8	90.0 - 110	125640291
TCLP Silver	0.0502	0.05	mg/L	100	90.0 - 110	125640301

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	0.0527	0.05	mg/L	105	90.0 - 110	125640230
TCLP Barium	0.0514	0.05	mg/L	103	90.0 - 110	125640230
TCLP Cadmium	0.0501	0.05	mg/L	100	90.0 - 110	125640230
TCLP Chromium	0.0507	0.05	mg/L	101	90.0 - 110	125640230
TCLP Lead	0.0523	0.05	mg/L	105	90.0 - 110	125640230
TCLP Selenium	0.0506	0.05	mg/L	101	90.0 - 110	125640230
TCLP Silver	0.0499	0.05	mg/L	99.8	90.0 - 110	125640230

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	1090505	0.471	0.475		0.500	82.8 - 120	94.2	95.0	mg/L	0.846	14.0
TCLP Barium	1090505	0.488	0.493		0.500	83.1 - 113	97.6	98.6	mg/L	1.02	14.0
TCLP Cadmium	1090505	0.239	0.235		0.250	86.0 - 115	95.6	94.0	mg/L	1.69	14.0
TCLP Chromium	1090505	0.462	0.464		0.500	84.3 - 118	92.4	92.8	mg/L	0.432	14.0
TCLP Lead	1090505	0.468	0.463		0.500	85.1 - 115	93.6	92.6	mg/L	1.07	14.0
TCLP Selenium	1090505	0.472	0.481		0.500	83.5 - 121	94.4	96.2	mg/L	1.89	14.0
TCLP Silver	1090505	0.0934	0.0924		0.100	80.1 - 118	93.4	92.4	mg/L	1.08	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2246585	2.51	2.58	ND	2.50	84.9 - 114	100	103	mg/L	2.75	20.0
TCLP Barium	2246585	2.91	2.99	0.398	2.50	80.3 - 115	100	104	mg/L	3.13	20.0
TCLP Cadmium	2246585	1.21	1.26	ND	1.25	78.2 - 120	96.8	101	mg/L	4.05	20.0
TCLP Chromium	2246585	2.39	2.45	0.0201	2.50	86.0 - 117	94.8	97.2	mg/L	2.50	20.0
TCLP Lead	2246585	2.34	2.44	ND	2.50	85.0 - 116	93.6	97.6	mg/L	4.18	20.0
TCLP Selenium	2246585	2.46	2.53	ND	2.50	80.2 - 121	98.4	101	mg/L	2.81	20.0
TCLP Silver	2246585	0.472	0.493	ND	0.500	80.7 - 115	94.4	98.6	mg/L	4.35	20.0

Analytical Set 1090439 — EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1090165	ND	43.0	250	ug/kg	125634593
PCB-1221	1090165	ND	43.0	250	ug/kg	125634593
PCB-1232	1090165	ND	43.0	250	ug/kg	125634593
PCB-1242	1090165	ND	43.0	250	ug/kg	125634593
PCB-1248	1090165	ND	43.0	250	ug/kg	125634593
PCB-1254	1090165	ND	43.0	250	ug/kg	125634593
PCB-1260	1090165	ND	43.0	250	ug/kg	125634593

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1100	1000	ug/kg	110	80.0 - 120		125634592
PCB-1016	1170	1000	ug/kg	117	80.0 - 120		125634607
PCB-1260	1150	1000	ug/kg	115	80.0 - 120		125634592
PCB-1260	1230	1000	ug/kg	123	80.0 - 120	*	125634607

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1090165	4960	4930		5000	28.4 - 187	99.2	98.6	ug/kg	0.607	30.0
PCB-1260	1090165	5130	5010		5000	22.3 - 183	103	100	ug/kg	2.96	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2246673	4810	4030	ND	10000	0.100 - 427	48.1	40.3	ug/kg	17.6	30.0
PCB-1260	2246673	4970	4150	ND	10000	0.100 - 470	49.7	41.5	ug/kg	18.0	30.0

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1090165	Blank	119	100	ug/kg	119	10.0 - 200	125634593
Tetrachloro-m-Xylene (Surr)	1090165	Blank	113	100	ug/kg	113	10.0 - 160	125634593
Decachlorobiphenyl	2246585	Unknown	402	500	ug/kg	80.4	10.0 - 200	125634596
Tetrachloro-m-Xylene (Surr)	2246585	Unknown	428	500	ug/kg	85.6	10.0 - 160	125634596

Analytical Set 1090475 EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1090475	174	227	1.1	0 - 2.00	125635719
BFB Mass 174	1090475	95.0	19811	66.3	50.0 - 100	125635719
BFB Mass 175	1090475	174	1708	8.6	5.00 - 9.00	125635719
BFB Mass 176	1090475	174	19528	98.6	95.0 - 101	125635719
BFB Mass 177	1090475	176	1310	6.7	5.00 - 9.00	125635719
BFB Mass 50	1090475	95.0	4491	15.0	15.0 - 40.0	125635719
BFB Mass 75	1090475	95.0	13687	45.8	30.0 - 60.0	125635719
BFB Mass 95	1090475	95.0	29883	100.0	100 - 100	125635719
BFB Mass 96	1090475	95.0	2075	6.9	5.00 - 9.00	125635719

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1090475	ND	0.000812	0.001	mg/L	125635723
TCLP 1,1-Dichloroethene	1090475	ND	0.000812	0.001	mg/L	125635724
TCLP 1,2-Dichloroethane	1090475	ND	0.000856	0.001	mg/L	125635723
TCLP 1,2-Dichloroethane	1090475	ND	0.000856	0.001	mg/L	125635724
TCLP 1,4 Dichlorobenzene	1090475	ND	0.000865	0.001	mg/L	125635723
TCLP 1,4 Dichlorobenzene	1090475	ND	0.000865	0.001	mg/L	125635724
TCLP Benzene	1090475	ND	0.000813	0.001	mg/L	125635723
TCLP Benzene	1090475	ND	0.000813	0.001	mg/L	125635724
TCLP Carbon tetrachloride	1090475	ND	0.000825	0.001	mg/L	125635723
TCLP Carbon tetrachloride	1090475	ND	0.000825	0.001	mg/L	125635724
TCLP Chlorobenzene	1090475	ND	0.000945	0.001	mg/L	125635723
TCLP Chlorobenzene	1090475	ND	0.000945	0.001	mg/L	125635724
TCLP Chloroform	1090475	ND	0.000945	0.001	mg/L	125635723
TCLP Chloroform	1090475	ND	0.000945	0.001	mg/L	125635724
TCLP MEK	1090475	ND	0.00654	0.010	mg/L	125635723
TCLP MEK	1090475	ND	0.00654	0.010	mg/L	125635724
TCLP Tetrachloroethylene	1090475	ND	0.000921	0.001	mg/L	125635723
TCLP Tetrachloroethylene	1090475	ND	0.000921	0.001	mg/L	125635724
TCLP Trichloroethylene	1090475	ND	0.000789	0.001	mg/L	125635723
TCLP Trichloroethylene	1090475	ND	0.000789	0.001	mg/L	125635724
TCLP Vinyl chloride	1090475	ND	0.00104	0.00104	mg/L	125635723
TCLP Vinyl chloride	1090475	ND	0.00104	0.00104	mg/L	125635724

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0203	0.020	mg/L	102	70.0 - 130	125635720
TCLP 1,2-Dichloroethane	0.0173	0.020	mg/L	86.5	70.0 - 130	125635720
TCLP 1,4 Dichlorobenzene	0.0209	0.020	mg/L	104	70.0 - 130	125635720
TCLP Benzene	0.0201	0.020	mg/L	100	70.0 - 130	125635720
TCLP Carbon tetrachloride	0.0205	0.020	mg/L	102	70.0 - 130	125635720
TCLP Chlorobenzene	0.0207	0.020	mg/L	104	70.0 - 130	125635720
TCLP Chloroform	0.0191	0.020	mg/L	95.5	70.0 - 130	125635720
TCLP MEK	0.0217	0.020	mg/L	108	70.0 - 130	125635720
TCLP Tetrachloroethylene	0.0207	0.020	mg/L	104	70.0 - 130	125635720
TCLP Trichloroethylene	0.0191	0.020	mg/L	95.5	70.0 - 130	125635720
TCLP Vinyl chloride	0.0172	0.020	mg/L	86.0	70.0 - 130	125635720

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1090475	CCV	71740	71740	50220	93270	125635720	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	LCS	71480	71740	50220	93270	125635721	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	LCS Dup	73480	71740	50220	93270	125635722	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	Blank	70600	71740	50220	93270	125635723	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	Blank	68820	71740	50220	93270	125635724	1090475
ChlorobenzeneD5 (ISTD)	1090475	CCV	131300	131300	91910	170700	125635720	1090475
ChlorobenzeneD5 (ISTD)	1090475	LCS	134400	131300	91910	170700	125635721	1090475
ChlorobenzeneD5 (ISTD)	1090475	LCS Dup	136300	131300	91910	170700	125635722	1090475
ChlorobenzeneD5 (ISTD)	1090475	Blank	134200	131300	91910	170700	125635723	1090475
ChlorobenzeneD5 (ISTD)	1090475	Blank	133900	131300	91910	170700	125635724	1090475
1,4-DichlorobenzeneD4 (ISTD)	2246585	MS	74280	71740	50220	93270	125635728	1090176
1,4-DichlorobenzeneD4 (ISTD)	2246585	MSD	69030	71740	50220	93270	125635729	1090176
ChlorobenzeneD5 (ISTD)	2246585	MS	136800	131300	91910	170700	125635728	1090176
ChlorobenzeneD5 (ISTD)	2246585	MSD	130200	131300	91910	170700	125635729	1090176

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1090475	LCS	11.10	11.10	11.04	11.16	125635721	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	LCS Dup	11.10	11.10	11.04	11.16	125635722	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	Blank	11.10	11.10	11.04	11.16	125635723	1090475
1,4-DichlorobenzeneD4 (ISTD)	1090475	Blank	11.10	11.10	11.04	11.16	125635724	1090475
ChlorobenzeneD5 (ISTD)	1090475	LCS	8.732	8.732	8.672	8.792	125635721	1090475
ChlorobenzeneD5 (ISTD)	1090475	LCS Dup	8.739	8.732	8.672	8.792	125635722	1090475
ChlorobenzeneD5 (ISTD)	1090475	Blank	8.739	8.732	8.672	8.792	125635723	1090475
ChlorobenzeneD5 (ISTD)	1090475	Blank	8.738	8.732	8.672	8.792	125635724	1090475
1,4-DichlorobenzeneD4 (ISTD)	2246585	MS	11.10	11.10	11.04	11.16	125635728	1090176
1,4-DichlorobenzeneD4 (ISTD)	2246585	MSD	11.10	11.10	11.04	11.16	125635729	1090176
ChlorobenzeneD5 (ISTD)	2246585	MS	8.738	8.732	8.672	8.792	125635728	1090176
ChlorobenzeneD5 (ISTD)	2246585	MSD	8.739	8.732	8.672	8.792	125635729	1090176

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%

QUALITY CONTROL

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1090475	0.015	0.0148	0.020	56.7 - 135	75.0	74.0	mg/L	1.34	30.0
TCLP 1,2-Dichloroethane	1090475	0.0161	0.0155	0.020	69.8 - 132	80.5	77.5	mg/L	3.80	30.0
TCLP 1,4 Dichlorobenzene	1090475	0.0203	0.0205	0.020	74.8 - 116	102	102	mg/L	0	30.0
TCLP Benzene	1090475	0.0185	0.0178	0.020	67.1 - 123	92.5	89.0	mg/L	3.86	30.0
TCLP Carbon tetrachloride	1090475	0.0178	0.0174	0.020	60.1 - 132	89.0	87.0	mg/L	2.27	30.0
TCLP Chlorobenzene	1090475	0.0204	0.0197	0.020	74.0 - 115	102	98.5	mg/L	3.49	30.0
TCLP Chloroform	1090475	0.0175	0.0168	0.020	71.1 - 128	87.5	84.0	mg/L	4.08	30.0
TCLP MEK	1090475	0.0208	0.0197	0.020	40.7 - 166	104	98.5	mg/L	5.43	30.0
TCLP Tetrachloroethylene	1090475	0.018	0.0181	0.020	71.2 - 126	90.0	90.5	mg/L	0.554	30.0
TCLP Trichloroethylene	1090475	0.0171	0.0164	0.020	71.4 - 126	85.5	82.0	mg/L	4.18	30.0
TCLP Vinyl chloride	1090475	0.0132	0.0122	0.020	18.5 - 155	66.0	61.0	mg/L	7.87	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	2246585	0.126	0.140	ND	0.200	0.100 - 168	63.0	70.0	mg/L	10.5	30.0
TCLP 1,2-Dichloroethane	2246585	0.143	0.147	ND	0.200	48.4 - 134	71.5	73.5	mg/L	2.76	30.0
TCLP 1,4 Dichlorobenzene	2246585	0.170	0.186	ND	0.200	45.4 - 121	85.0	93.0	mg/L	8.99	30.0
TCLP Benzene	2246585	0.158	0.165	ND	0.200	5.00 - 119	79.0	82.5	mg/L	4.33	30.0
TCLP Carbon tetrachloride	2246585	0.152	0.160	ND	0.200	0.100 - 164	76.0	80.0	mg/L	5.13	30.0
TCLP Chlorobenzene	2246585	0.174	0.184	ND	0.200	32.5 - 130	87.0	92.0	mg/L	5.59	30.0
TCLP Chloroform	2246585	0.149	0.156	ND	0.200	22.1 - 141	74.5	78.0	mg/L	4.59	30.0
TCLP MEK	2246585	0.369	0.368	ND	0.200	9.88 - 197	184	184	mg/L	0.271	30.0
TCLP Tetrachloroethylene	2246585	0.149	0.165	ND	0.200	0.100 - 157	74.5	82.5	mg/L	10.2	30.0
TCLP Trichloroethylene	2246585	0.144	0.156	ND	0.200	0.100 - 161	72.0	78.0	mg/L	8.00	30.0
TCLP Vinyl chloride	2246585	0.149	0.153	ND	0.200	0.100 - 197	74.5	76.5	mg/L	2.65	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1090475	CCV	0.0158	0.020	mg/L	79.0	74.2 - 132	125635720
1,2-DCA-d4 (SURR)	1090475	LCS	0.0157	0.020	mg/L	78.5	74.2 - 132	125635721
1,2-DCA-d4 (SURR)	1090475	LCS Dup	0.016	0.020	mg/L	80.0	74.2 - 132	125635722
1,2-DCA-d4 (SURR)	1090475	Blank	0.0158	0.020	mg/L	79.0	74.2 - 132	125635723
1,2-DCA-d4 (SURR)	1090475	Blank	0.0161	0.020	mg/L	80.5	74.2 - 132	125635724
Bromofluorobenzene (SURR)	1090475	CCV	0.0194	0.020	mg/L	97.0	77.2 - 134	125635720
Bromofluorobenzene (SURR)	1090475	LCS	0.0196	0.020	mg/L	98.0	77.2 - 134	125635721
Bromofluorobenzene (SURR)	1090475	LCS Dup	0.0196	0.020	mg/L	98.0	77.2 - 134	125635722
Bromofluorobenzene (SURR)	1090475	Blank	0.0188	0.020	mg/L	94.0	77.2 - 134	125635723
Bromofluorobenzene (SURR)	1090475	Blank	0.0194	0.020	mg/L	97.0	77.2 - 134	125635724
Dibromofluoromethane (SURR)	1090475	CCV	0.0175	0.020	mg/L	87.5	67.2 - 122	125635720
Dibromofluoromethane (SURR)	1090475	LCS	0.0174	0.020	mg/L	87.0	67.2 - 122	125635721
Dibromofluoromethane (SURR)	1090475	LCS Dup	0.0176	0.020	mg/L	88.0	67.2 - 122	125635722
Dibromofluoromethane (SURR)	1090475	Blank	0.0175	0.020	mg/L	87.5	67.2 - 122	125635723
Dibromofluoromethane (SURR)	1090475	Blank	0.0172	0.020	mg/L	86.0	67.2 - 122	125635724
ToluneneD8 (SURR)	1090475	CCV	0.0181	0.020	mg/L	90.5	69.2 - 122	125635720
ToluneneD8 (SURR)	1090475	LCS	0.0178	0.020	mg/L	89.0	69.2 - 122	125635721

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Curtis Hancock
1311 Chestnut St.
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
TolueneD8 (SURR)	1090475	LCS Dup	0.0179	0.020	mg/L	89.5	69.2 - 122	125635722
TolueneD8 (SURR)	1090475	Blank	0.0174	0.020	mg/L	87.0	69.2 - 122	125635723
TolueneD8 (SURR)	1090475	Blank	0.0176	0.020	mg/L	88.0	69.2 - 122	125635724
1,2-DCA-d4 (SURR)	2246585	MS	0.0159	0.020	mg/L	79.5	74.2 - 132	125635728
1,2-DCA-d4 (SURR)	2246585	MSD	0.016	0.020	mg/L	80.0	74.2 - 132	125635729
Bromofluorobenzene (SURR)	2246585	MS	0.0194	0.020	mg/L	97.0	77.2 - 134	125635728
Bromofluorobenzene (SURR)	2246585	MSD	0.020	0.020	mg/L	100	77.2 - 134	125635729
Dibromofluoromethane (SURR)	2246585	MS	0.0173	0.020	mg/L	86.5	67.2 - 122	125635728
Dibromofluoromethane (SURR)	2246585	MSD	0.0178	0.020	mg/L	89.0	67.2 - 122	125635729
TolueneD8 (SURR)	2246585	MS	0.0178	0.020	mg/L	89.0	69.2 - 122	125635728
TolueneD8 (SURR)	2246585	MSD	0.0177	0.020	mg/L	88.5	69.2 - 122	125635729

Analytical Set 1091439 EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1090175	ND	0.000734	0.001	mg/L	125658009
TCLP 2,4,6-Trichlorophenol	1090175	ND	0.000704	0.001	mg/L	125658009
TCLP 2,4-Dinitrotoluene	1090175	ND	0.00335	0.0035	mg/L	125658009
TCLP 2-Methylphenol (o-Cresol)	1090175	ND	0.00513	0.0052	mg/L	125658009
TCLP 3&4-Methylphenol (m&p-Creso	1090175	ND	0.00615	0.0062	mg/L	125658009
TCLP Hexachlorobenzene	1090175	ND	0.000187	0.001	mg/L	125658009
TCLP Hexachlorobutadiene	1090175	ND	0.000618	0.001	mg/L	125658009
TCLP Hexachloroethane	1090175	ND	0.000789	0.001	mg/L	125658009
TCLP Nitrobenzene	1090175	ND	0.00039	0.001	mg/L	125658009
TCLP Pentachlorophenol	1090175	0.00078	0.000129	0.001	mg/L	125658009
TCLP Pyridine (Reg. Limit 5)	1090175	ND	0.00533	0.0054	mg/L	125658009
TCLP 2,4,5-Trichlorophenol	1090797	ND	0.000734	0.001	mg/L	125658006
TCLP 2,4,6-Trichlorophenol	1090797	ND	0.000704	0.001	mg/L	125658006
TCLP 2,4-Dinitrotoluene	1090797	ND	0.00335	0.0035	mg/L	125658006
TCLP 2-Methylphenol (o-Cresol)	1090797	ND	0.00513	0.0052	mg/L	125658006
TCLP 3&4-Methylphenol (m&p-Creso	1090797	ND	0.00615	0.0062	mg/L	125658006
TCLP Hexachlorobenzene	1090797	ND	0.000187	0.001	mg/L	125658006
TCLP Hexachlorobutadiene	1090797	ND	0.000618	0.001	mg/L	125658006
TCLP Hexachloroethane	1090797	ND	0.000789	0.001	mg/L	125658006
TCLP Nitrobenzene	1090797	ND	0.00039	0.001	mg/L	125658006
TCLP Pentachlorophenol	1090797	0.00088	0.000129	0.001	mg/L	125658006
TCLP Pyridine (Reg. Limit 5)	1090797	ND	0.00533	0.0054	mg/L	125658006

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	42.8	50.0	mg/L	85.7	70.0 - 130	125658005
TCLP 2,4,6-Trichlorophenol	44.5	50.0	mg/L	88.9	70.0 - 130	125658005
TCLP 2,4-Dinitrotoluene	54.4	50.0	mg/L	109	70.0 - 130	125658005
TCLP 2-Methylphenol (o-Cresol)	51.4	50.0	mg/L	103	70.0 - 130	125658005
TCLP 3&4-Methylphenol (m&p-Creso	50.7	50.0	mg/L	101	70.0 - 130	125658005

QUALITY CONTROL

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Hexachlorobenzene	48.0	50.0	mg/L	95.9	70.0 - 130	125658005
TCLP Hexachlorobutadiene	43.5	50.0	mg/L	87.0	70.0 - 130	125658005
TCLP Hexachloroethane	54.0	50.0	mg/L	108	70.0 - 130	125658005
TCLP Nitrobenzene	48.8	50.0	mg/L	97.5	70.0 - 130	125658005
TCLP Pentachlorophenol	51.2	50.0	mg/L	102	70.0 - 130	125658005
TCLP Pyridine (Reg. Limit 5)	53.6	50.0	mg/L	107	70.0 - 130	125658005

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	620833	198	47841	57.1	40.0 - 60.0	125658004
DFTPP Mass 197	620833	198	0	0.0	0 - 1.00	125658004
DFTPP Mass 198	620833	198	83760	100.0	100 - 100	125658004
DFTPP Mass 199	620833	198	6217	7.4	5.00 - 9.00	125658004
DFTPP Mass 275	620833	198	22479	26.8	10.0 - 30.0	125658004
DFTPP Mass 365	620833	198	5632	6.7	1.00 - 100	125658004
DFTPP Mass 441	620833	443	7322	62.2	0 - 100	125658004
DFTPP Mass 442	620833	198	61741	73.7	40.0 - 100	125658004
DFTPP Mass 443	620833	442	11777	19.1	17.0 - 23.0	125658004
DFTPP Mass 51	620833	198	38896	46.4	30.0 - 60.0	125658004
DFTPP Mass 68	620833	69.0	0	0.0	0 - 2.00	125658004
DFTPP Mass 69	620833	198	55395	66.1	0 - 100	125658004
DFTPP Mass 70	620833	69.0	132	0.2	0 - 2.00	125658004

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	620072	CCV	59540	59540	29770	89310	125658005	620072
Acenaphthene-d10-ISTD	620072	CCV	134000	134000	66980	201000	125658005	620072
Naphthalene-d8-ISTD	620072	CCV	220900	220900	110500	331400	125658005	620072
Phenanthrene-d10-ISTD	620072	CCV	219600	219600	109800	329400	125658005	620072
1,4-Dichlorobenzene-d4-ISTD	1090175	Blank	56460	59540	29770	89310	125658009	1090175
Acenaphthene-d10-ISTD	1090175	Blank	98860	134000	66980	201000	125658009	1090175
Naphthalene-d8-ISTD	1090175	Blank	197500	220900	110500	331400	125658009	1090175
Phenanthrene-d10-ISTD	1090175	Blank	147800	219600	109800	329400	125658009	1090175
1,4-Dichlorobenzene-d4-ISTD	1090797	Blank	43080	59540	29770	89310	125658006	1090797
1,4-Dichlorobenzene-d4-ISTD	1090797	LCS	45980	59540	29770	89310	125658007	1090797
1,4-Dichlorobenzene-d4-ISTD	1090797	LCS Dup	67460	59540	29770	89310	125658008	1090797
Acenaphthene-d10-ISTD	1090797	Blank	73600	134000	66980	201000	125658006	1090797
Acenaphthene-d10-ISTD	1090797	LCS	94690	134000	66980	201000	125658007	1090797
Acenaphthene-d10-ISTD	1090797	LCS Dup	139900	134000	66980	201000	125658008	1090797
Naphthalene-d8-ISTD	1090797	Blank	158500	220900	110500	331400	125658006	1090797
Naphthalene-d8-ISTD	1090797	LCS	165000	220900	110500	331400	125658007	1090797
Naphthalene-d8-ISTD	1090797	LCS Dup	238400	220900	110500	331400	125658008	1090797
Phenanthrene-d10-ISTD	1090797	Blank	116800	219600	109800	329400	125658006	1090797
Phenanthrene-d10-ISTD	1090797	LCS	131500	219600	109800	329400	125658007	1090797
Phenanthrene-d10-ISTD	1090797	LCS Dup	238300	219600	109800	329400	125658008	1090797

QUALITY CONTROL

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IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*		*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	2246585	Unknown	47360	59540	29770	89310		125658011	1090797
1,4-Dichlorobenzene-d4-ISTD	2246585	MS	34340	59540	29770	89310		125658012	1090797
Acenaphthene-d10-ISTD	2246585	Unknown	82460	134000	66980	201000		125658011	1090797
Acenaphthene-d10-ISTD	2246585	MS	67460	134000	66980	201000		125658012	1090797
Naphthalene-d8-ISTD	2246585	Unknown	167100	220900	110500	331400		125658011	1090797
Naphthalene-d8-ISTD	2246585	MS	125300	220900	110500	331400		125658012	1090797
Phenanthrene-d10-ISTD	2246585	Unknown	120200	219600	109800	329400		125658011	1090797
Phenanthrene-d10-ISTD	2246585	MS	102400	219600	109800	329400	*	125658012	1090797

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	620072	CCV	7.340	7.340	7.280	7.400	125658005	620072
Acenaphthene-d10-ISTD	620072	CCV	13.56	13.56	13.50	13.62	125658005	620072
Naphthalene-d8-ISTD	620072	CCV	9.650	9.650	9.590	9.710	125658005	620072
Phenanthrene-d10-ISTD	620072	CCV	16.47	16.47	16.41	16.53	125658005	620072
1,4-Dichlorobenzene-d4-ISTD	1090175	Blank	7.330	7.340	7.280	7.400	125658009	1090175
Acenaphthene-d10-ISTD	1090175	Blank	13.55	13.56	13.50	13.62	125658009	1090175
Naphthalene-d8-ISTD	1090175	Blank	9.650	9.650	9.590	9.710	125658009	1090175
Phenanthrene-d10-ISTD	1090175	Blank	16.45	16.47	16.41	16.53	125658009	1090175
1,4-Dichlorobenzene-d4-ISTD	1090797	Blank	7.330	7.340	7.280	7.400	125658006	1090797
1,4-Dichlorobenzene-d4-ISTD	1090797	LCS	7.330	7.340	7.280	7.400	125658007	1090797
1,4-Dichlorobenzene-d4-ISTD	1090797	LCS Dup	7.330	7.340	7.280	7.400	125658008	1090797
Acenaphthene-d10-ISTD	1090797	Blank	13.55	13.56	13.50	13.62	125658006	1090797
Acenaphthene-d10-ISTD	1090797	LCS	13.55	13.56	13.50	13.62	125658007	1090797
Acenaphthene-d10-ISTD	1090797	LCS Dup	13.56	13.56	13.50	13.62	125658008	1090797
Naphthalene-d8-ISTD	1090797	Blank	9.640	9.650	9.590	9.710	125658006	1090797
Naphthalene-d8-ISTD	1090797	LCS	9.650	9.650	9.590	9.710	125658007	1090797
Naphthalene-d8-ISTD	1090797	LCS Dup	9.650	9.650	9.590	9.710	125658008	1090797
Phenanthrene-d10-ISTD	1090797	Blank	16.46	16.47	16.41	16.53	125658006	1090797
Phenanthrene-d10-ISTD	1090797	LCS	16.46	16.47	16.41	16.53	125658007	1090797
Phenanthrene-d10-ISTD	1090797	LCS Dup	16.47	16.47	16.41	16.53	125658008	1090797
1,4-Dichlorobenzene-d4-ISTD	2246585	Unknown	7.330	7.340	7.280	7.400	125658011	1090797
1,4-Dichlorobenzene-d4-ISTD	2246585	MS	7.330	7.340	7.280	7.400	125658012	1090797
Acenaphthene-d10-ISTD	2246585	Unknown	13.55	13.56	13.50	13.62	125658011	1090797
Acenaphthene-d10-ISTD	2246585	MS	13.55	13.56	13.50	13.62	125658012	1090797
Naphthalene-d8-ISTD	2246585	Unknown	9.640	9.650	9.590	9.710	125658011	1090797
Naphthalene-d8-ISTD	2246585	MS	9.650	9.650	9.590	9.710	125658012	1090797
Phenanthrene-d10-ISTD	2246585	Unknown	16.45	16.47	16.41	16.53	125658011	1090797
Phenanthrene-d10-ISTD	2246585	MS	16.46	16.47	16.41	16.53	125658012	1090797

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	1090797	0.0195	0.0203	0.025	39.3 - 111	78.0	81.2	mg/L	4.02	30.0
TCLP 2,4,6-Trichlorophenol	1090797	0.0229	0.0224	0.025	38.2 - 109	91.6	89.6	mg/L	2.21	30.0
TCLP 2,4-Dinitrotoluene	1090797	0.0218	0.0244	0.025	36.3 - 132	87.2	97.6	mg/L	11.3	30.0

QUALITY CONTROL

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2-Methylphenol (o-Cresol)	1090797	0.0199	0.0201	0.025	23.0 - 87.8	79.6	80.4	mg/L	1.00	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1090797	0.0177	0.0179	0.025	14.9 - 92.5	70.8	71.6	mg/L	1.12	30.0
TCLP Hexachlorobenzene	1090797	0.0238	0.0224	0.025	44.4 - 117	95.2	89.6	mg/L	6.06	30.0
TCLP Hexachlorobutadiene	1090797	0.0152	0.0158	0.025	17.2 - 88.9	60.8	63.2	mg/L	3.87	30.0
TCLP Hexachloroethane	1090797	0.018	0.0168	0.025	14.6 - 88.8	72.0	67.2	mg/L	6.90	30.0
TCLP Nitrobenzene	1090797	0.0218	0.0214	0.025	34.3 - 113	87.2	85.6	mg/L	1.85	30.0
TCLP Pentachlorophenol	1090797	0.022	0.0236	0.025	15.7 - 129	88.0	94.4	mg/L	7.02	30.0
TCLP Pyridine (Reg. Limit 5)	1090797	0.0108	0.0128	0.025	0.0753 - 83.4	43.2	51.2	mg/L	16.9	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	2246585	0.199	0	0.0066	0.250	33.7 - 116	77.0		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2246585	0.244	0	ND	0.250	20.1 - 131	97.6		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2246585	0.256	0	ND	0.250	31.8 - 135	102		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2246585	0.219	0	ND	0.250	10.6 - 106	87.6		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2246585	0.201	0	ND	0.250	0.100 - 149	80.4		mg/L		30.0
TCLP Hexachlorobenzene	2246585	0.264	0	ND	0.250	35.9 - 125	106		mg/L		30.0
TCLP Hexachlorobutadiene	2246585	0.156	0	ND	0.250	11.1 - 88.5	62.4		mg/L		30.0
TCLP Hexachloroethane	2246585	0.200	0	ND	0.250	8.41 - 88.1	80.0		mg/L		30.0
TCLP Nitrobenzene	2246585	0.252	0	ND	0.250	28.7 - 119	101		mg/L		30.0
TCLP Pentachlorophenol	2246585	0.281	0	ND	0.250	8.33 - 141	112		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2246585	0.163	0	ND	0.250	0.100 - 97.2	65.2		mg/L		30.0

SPCC

Parameter	*Sample*	*RF*	*Minimum*	*File*
TCLP 2,4-Dinitrophenol	620072	46.1	0.050	125658005
TCLP 4-Nitrophenol	620072	47.3	0.050	125658005
TCLP Hexachlorocyclopentadiene	620072	41.0	0.050	125658005
TCLP N-Nitroso-n-propylamine	620072	51.1	0.050	125658005

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	620072	CCV	45.0	100	mg/L	45.0	9.79 - 123	125658005
2-Fluorobiphenyl-SURR	620072	CCV	42.7	50.0	mg/L	85.4	0.100 - 131	125658005
2-Fluorophenol-SURR	620072	CCV	47.0	100	mg/L	47.0	5.36 - 80.2	125658005
4-Terphenyl-d14-SURR	620072	CCV	45.3	50.0	mg/L	90.6	0.100 - 137	125658005
Nitrobenzene-d5-SURR	620072	CCV	45.9	50.0	mg/L	91.8	0.100 - 131	125658005
Phenol-d6-SURR	620072	CCV	52.2	100	mg/L	52.2	0.100 - 66.5	125658005
2,4,6-Tribromophenol	1090175	Blank	1.50	3.33	mg/L	45.0	9.79 - 123	125658009
2-Fluorobiphenyl-SURR	1090175	Blank	21.1	50.0	mg/L	42.2	0.100 - 131	125658009
2-Fluorophenol-SURR	1090175	Blank	36.8	100	mg/L	36.8	5.36 - 80.2	125658009
4-Terphenyl-d14-SURR	1090175	Blank	17.5	50.0	mg/L	35.0	0.100 - 137	125658009
Nitrobenzene-d5-SURR	1090175	Blank	19.8	50.0	mg/L	39.6	0.100 - 131	125658009
Phenol-d6-SURR	1090175	Blank	23.4	100	mg/L	23.4	0.100 - 66.5	125658009
2,4,6-Tribromophenol	1090797	Blank	1.37	3.33	mg/L	41.1	9.79 - 123	125658006
2,4,6-Tribromophenol	1090797	LCS	1.52	3.33	mg/L	45.6	9.79 - 123	125658007

BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	1090797	LCS Dup	1.84	3.33	mg/L	55.3	9.79 - 123	125658008
2-Fluorobiphenyl-SURR	1090797	Blank	21.2	50.0	mg/L	42.4	0.100 - 131	125658006
2-Fluorobiphenyl-SURR	1090797	LCS	23.7	50.0	mg/L	47.4	0.100 - 131	125658007
2-Fluorobiphenyl-SURR	1090797	LCS Dup	22.8	50.0	mg/L	45.6	0.100 - 131	125658008
2-Fluorophenol-SURR	1090797	Blank	34.0	100	mg/L	34.0	5.36 - 80.2	125658006
2-Fluorophenol-SURR	1090797	LCS	41.2	100	mg/L	41.2	5.36 - 80.2	125658007
2-Fluorophenol-SURR	1090797	LCS Dup	36.2	100	mg/L	36.2	5.36 - 80.2	125658008
4-Terphenyl-d14-SURR	1090797	Blank	15.4	50.0	mg/L	30.8	0.100 - 137	125658006
4-Terphenyl-d14-SURR	1090797	LCS	19.8	50.0	mg/L	39.6	0.100 - 137	125658007
4-Terphenyl-d14-SURR	1090797	LCS Dup	22.3	50.0	mg/L	44.6	0.100 - 137	125658008
Nitrobenzene-d5-SURR	1090797	Blank	19.4	50.0	mg/L	38.8	0.100 - 131	125658006
Nitrobenzene-d5-SURR	1090797	LCS	22.4	50.0	mg/L	44.8	0.100 - 131	125658007
Nitrobenzene-d5-SURR	1090797	LCS Dup	22.0	50.0	mg/L	44.0	0.100 - 131	125658008
Phenol-d6-SURR	1090797	Blank	21.8	100	mg/L	21.8	0.100 - 66.5	125658006
Phenol-d6-SURR	1090797	LCS	25.7	100	mg/L	25.7	0.100 - 66.5	125658007
Phenol-d6-SURR	1090797	LCS Dup	24.1	100	mg/L	24.1	0.100 - 66.5	125658008
2,4,6-Tribromophenol	2246585	Unknown	0.344	1.00	mg/L	34.4	9.79 - 123	125658011
2,4,6-Tribromophenol	2246585	MS	0.520	1.00	mg/L	52.0	9.79 - 123	125658012
2-Fluorobiphenyl-SURR	2246585	Unknown	0.185	0.500	mg/L	37.0	0.100 - 131	125658011
2-Fluorobiphenyl-SURR	2246585	MS	0.238	0.500	mg/L	47.6	0.100 - 131	125658012
2-Fluorophenol-SURR	2246585	Unknown	0.296	1.00	mg/L	29.6	5.36 - 80.2	125658011
2-Fluorophenol-SURR	2246585	MS	0.406	1.00	mg/L	40.6	5.36 - 80.2	125658012
4-Terphenyl-d14-SURR	2246585	Unknown	0.146	0.500	mg/L	29.2	0.100 - 137	125658011
4-Terphenyl-d14-SURR	2246585	MS	0.207	0.500	mg/L	41.4	0.100 - 137	125658012
Nitrobenzene-d5-SURR	2246585	Unknown	0.173	0.500	mg/L	34.6	0.100 - 131	125658011
Nitrobenzene-d5-SURR	2246585	MS	0.245	0.500	mg/L	49.0	0.100 - 131	125658012
Phenol-d6-SURR	2246585	Unknown	0.190	1.00	mg/L	19.0	0.100 - 66.5	125658011
Phenol-d6-SURR	2246585	MS	0.267	1.00	mg/L	26.7	0.100 - 66.5	125658012

Analytical Set 1091591 EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1090175	ND	0.0183	0.020	mg/L	125662079
TCLP Endrin	1090175	ND	0.000538	0.001	mg/L	125662079
TCLP gamma-BHC (Lindane)	1090175	ND	0.000385	0.001	mg/L	125662079
TCLP Heptachlor	1090175	ND	0.000207	0.001	mg/L	125662079
TCLP Heptachlor Epoxide	1090175	ND	0.00066	0.001	mg/L	125662079
TCLP Methoxychlor	1090175	ND	0.000898	0.001	mg/L	125662079
TCLP Toxaphene	1090175	ND	0.000169	0.0002	mg/L	125662079
TCLP Chlordane	1090783	ND	0.0183	0.020	mg/L	125662076
TCLP Endrin	1090783	ND	0.000538	0.001	mg/L	125662076
TCLP gamma-BHC (Lindane)	1090783	ND	0.000385	0.001	mg/L	125662076
TCLP Heptachlor	1090783	ND	0.000207	0.001	mg/L	125662076
TCLP Heptachlor Epoxide	1090783	ND	0.00066	0.001	mg/L	125662076

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Methoxychlor	1090783	ND	0.000898	0.001	mg/L	125662076
TCLP Toxaphene	1090783	ND	0.000169	0.0002	mg/L	125662076

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.049	0.050	mg/L	98.1	70.0 - 130	125662074
TCLP Endrin	0.0437	0.050	mg/L	87.5	70.0 - 130	125662075
TCLP Endrin	0.0451	0.050	mg/L	90.2	70.0 - 130	125662082
TCLP Endrin	0.0439	0.050	mg/L	87.7	70.0 - 130	125662088
TCLP gamma-BHC (Lindane)	0.0484	0.050	mg/L	96.8	70.0 - 130	125662074
TCLP gamma-BHC (Lindane)	0.0424	0.050	mg/L	84.8	70.0 - 130	125662075
TCLP gamma-BHC (Lindane)	0.043	0.050	mg/L	86.1	70.0 - 130	125662082
TCLP gamma-BHC (Lindane)	0.043	0.050	mg/L	86.0	70.0 - 130	125662088
TCLP Heptachlor	0.0478	0.050	mg/L	95.6	70.0 - 130	125662074
TCLP Heptachlor	0.0428	0.050	mg/L	85.6	70.0 - 130	125662075
TCLP Heptachlor	0.044	0.050	mg/L	88.0	70.0 - 130	125662082
TCLP Heptachlor	0.0441	0.050	mg/L	88.2	70.0 - 130	125662088
TCLP Heptachlor Epoxide	0.0463	0.050	mg/L	92.7	70.0 - 130	125662074
TCLP Heptachlor Epoxide	0.040	0.050	mg/L	80.1	70.0 - 130	125662075
TCLP Heptachlor Epoxide	0.0407	0.050	mg/L	81.4	70.0 - 130	125662082
TCLP Heptachlor Epoxide	0.0402	0.050	mg/L	80.4	70.0 - 130	125662088
TCLP Methoxychlor	0.0496	0.050	mg/L	99.3	70.0 - 130	125662074
TCLP Methoxychlor	0.0481	0.050	mg/L	96.2	70.0 - 130	125662075
TCLP Methoxychlor	0.0536	0.050	mg/L	107	70.0 - 130	125662082
TCLP Methoxychlor	0.0502	0.050	mg/L	100	70.0 - 130	125662088

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1090783	0.072	0.0799	0.100	42.6 - 137	72.0	79.9	mg/L	10.4	30.0
TCLP gamma-BHC (Lindane)	1090783	0.0646	0.0757	0.100	33.0 - 129	64.6	75.7	mg/L	15.8	30.0
TCLP Heptachlor	1090783	0.0623	0.0764	0.100	24.2 - 129	62.3	76.4	mg/L	20.3	30.0
TCLP Heptachlor Epoxide	1090783	0.0634	0.0729	0.100	40.8 - 128	63.4	72.9	mg/L	13.9	30.0
TCLP Methoxychlor	1090783	0.0775	0.0807	0.100	33.3 - 146	77.5	80.7	mg/L	4.05	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2246585	0.00282	0	ND	0.005	24.3 - 151	56.4		mg/L		30.0
TCLP gamma-BHC (Lindane)	2246585	0.00226	0	ND	0.005	21.3 - 144	45.2		mg/L		30.0
TCLP Heptachlor	2246585	0.00228	0	ND	0.005	14.9 - 138	45.6		mg/L		30.0
TCLP Heptachlor Epoxide	2246585	0.00242	0	ND	0.005	29.9 - 133	48.4		mg/L		30.0
TCLP Methoxychlor	2246585	0.0032	0	ND	0.005	10.3 - 183	64.0		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	620204	CCV	0.0456	0.100	mg/L	45.6	10.0 - 150	125662074
Decachlorobiphenyl	620204	CCV	0.040	0.100	mg/L	40.0	10.0 - 150	125662075

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	620204	CCV	0.0435	0.100	mg/L	43.5	10.0 - 150	125662082
Decachlorobiphenyl	620204	CCV	0.0424	0.100	mg/L	42.4	10.0 - 150	125662088
Tetrachloro-m-Xylene (Surr)	620204	CCV	0.0476	0.100	mg/L	47.6	10.0 - 150	125662074
Tetrachloro-m-Xylene (Surr)	620204	CCV	0.0464	0.100	mg/L	46.4	10.0 - 150	125662075
Tetrachloro-m-Xylene (Surr)	620204	CCV	0.0477	0.100	mg/L	47.7	10.0 - 150	125662082
Tetrachloro-m-Xylene (Surr)	620204	CCV	0.047	0.100	mg/L	47.0	10.0 - 150	125662088
Decachlorobiphenyl	1090175	Blank	0.0923	0.100	mg/L	92.3	10.0 - 150	125662079
Tetrachloro-m-Xylene (Surr)	1090175	Blank	0.0639	0.100	mg/L	63.9	10.0 - 150	125662079
Decachlorobiphenyl	1090783	Blank	0.0584	0.100	mg/L	58.4	10.0 - 150	125662076
Decachlorobiphenyl	1090783	LCS	0.0804	0.100	mg/L	80.4	10.0 - 150	125662077
Decachlorobiphenyl	1090783	LCS Dup	0.0842	0.100	mg/L	84.2	10.0 - 150	125662078
Tetrachloro-m-Xylene (Surr)	1090783	Blank	0.0564	0.100	mg/L	56.4	10.0 - 150	125662076
Tetrachloro-m-Xylene (Surr)	1090783	LCS	0.065	0.100	mg/L	65.0	10.0 - 150	125662077
Tetrachloro-m-Xylene (Surr)	1090783	LCS Dup	0.0752	0.100	mg/L	75.2	10.0 - 150	125662078
Decachlorobiphenyl	2246585	MS	0.00302	0.005	mg/L	60.4	10.0 - 150	125662081
Tetrachloro-m-Xylene (Surr)	2246585	MS	0.00217	0.005	mg/L	43.4	10.0 - 150	125662081

Analytical Set 1091807 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1090175	ND	0.000159	0.0005	mg/L	125667612
TCLP 2,4,5-TP (Silvex)	1090175	ND	0.0000893	0.0003	mg/L	125667612
TCLP 2,4 D	1091028	ND	0.000159	0.0005	mg/L	125667609
TCLP 2,4,5-TP (Silvex)	1091028	ND	0.0000893	0.0003	mg/L	125667609

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.151	0.150	mg/L	100	70.0 - 130	125667608
TCLP 2,4 D	0.173	0.150	mg/L	116	70.0 - 130	125667622
TCLP 2,4,5-TP (Silvex)	0.152	0.150	mg/L	101	70.0 - 130	125667608
TCLP 2,4,5-TP (Silvex)	0.165	0.150	mg/L	110	70.0 - 130	125667622

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1091028	0.000822	0.00105	0.001	2.06 - 194	82.2	105	mg/L	24.4	30.0
TCLP 2,4,5-TP (Silvex)	1091028	0.000761	0.000913	0.001	19.3 - 162	76.1	91.3	mg/L	18.2	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2247737	1.14	0	0.0298	1.00	0.100 - 228	111		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2247737	0.936	0	0.00056	1.00	2.02 - 165	93.5		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.173	0.200	mg/L	86.5	0.100 - 294	125667608
2,4-Dichlorophenylacetic Acid		CCV	0.194	0.200	mg/L	97.0	0.100 - 294	125667622

QUALITY CONTROL

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Curtis Hancock
1311 Chestnut St.
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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4-Dichlorophenylacetic Acid	1090175	Blank	0.104	0.200	mg/L	52.0	0.100 - 294	125667612
2,4-Dichlorophenylacetic Acid	1091028	Blank	0.120	0.200	mg/L	60.0	0.100 - 294	125667609
2,4-Dichlorophenylacetic Acid	1091028	LCS	0.113	0.200	mg/L	56.5	0.100 - 294	125667610
2,4-Dichlorophenylacetic Acid	1091028	LCS Dup	0.138	0.200	mg/L	69.0	0.100 - 294	125667611
2,4-Dichlorophenylacetic Acid	2246585	Unknown	1.05	2.00	mg/L	52.5	0.100 - 294	125667615
2,4-Dichlorophenylacetic Acid	2247737	MS	1.62	2.00	mg/L	81.0	0.100 - 294	125667620

* 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); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.); DFTPP - GC/MS Tuning Compound

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ANALAB
Testing the Limits of Science and Service

CHAIN OF CUSTODY

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11/08/20 JLC

City of Bastrop
Curtis Hancock
P. O. Box 427
Bastrop, TX 78602-0427

BAS1 -C
120

Lab Number 2246584S

PO Number

Phone 512/332-8964

Annual Sludge - TCLP + PCB 5 D

RUSH 5 Day

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 11-7-23 Time: 0910

Sampler Printed Name: R. Andrew McKone

Sampler Affiliation: BAS I

Sampler Signature: R. Andrew McKone

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 **Glass Qt w/Teflon lined lid**

NELAC	***AgT**	TCLP Silver	EPA 6020A CAS:7440-22-4 (14.0 days)
NELAC	***AsT**	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (14.0 days)
NELAC	***BaT**	TCLP Barium	EPA 6020A CAS:7440-39-3 (14.0 days)
NELAC	***CdT**	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (14.0 days)
NELAC	***CrT**	TCLP Chromium	EPA 6020A CAS:7440-47-3 (14.0 days)
NELAC	***HgT**	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	***PbT**	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
NELAC	***SeT**	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	***TCL**	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	**TABN**	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	**TG50**	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	**TG80**	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	**TVOA**	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)
NELAC	**TVOX**	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 **Glass 4 oz w/Teflon lined lid**

500 Dudley Rd. Kilgore, Texas 75662
O. Box 9000 Kilgore, Texas 75663
ffice: 903-984-0551 * Fax: 903-984-5914

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120

NELAC	**1PCB**	Polychlorinated Biphenyls	EPA 8082 (7.00 days)
NELAC	**TS%**	Total Solids for Dry Wt	SM2540 G-1997 /MOD

0 **Z – No bottle required**

ARDW As Received to Dry Weight Basis — Calculation

Ambient Conditions/Comments

Date	Time	Relinquished	Received
11-7-23	1484	Printed Name R. Andrew McKone Affiliation BAS1	Printed Name Affiliation
		Signature R. Andrew McKone	Signature
11/7/23	1700	Printed Name Affiliation SPL	Printed Name FedEx Affiliation
		Signature	Signature
11/8/23	1420	Printed Name FedEx Affiliation	Printed Name Christi Parker SPL, Inc. Affiliation
		Signature	Signature
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature

Sample Received on Ice? Yes No **Method of Shipment:** UPS Bus FedEx Lone Star Hand Delivered Other
Cooler/Sample Secure? Yes No **If Shipped: Tracking Number & Temp - See Attached**
Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments



ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 06NOV23
ACTWGT: 70.00 LB
CAD: 104384799/INET4660
DIMS: 24x14x14 IN

BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

KILGORE TX 75662
(903) 984-0551

REF:
INV:
PO:
DEPT:

583J5/F082/9AE3

FedEx Express

TUE - 07 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7740 0579 1268

75662
TX-US SHV

AH GGGA

11/8 1424 CP
Date Time Tech
Temp: 3.1 13.3 C
Therm#: 6443 Corr Fact: 0.2 C

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Project
1120898

BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed 10/17/2024
17:03

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SAMPLE CROSS REFERENCE

Project
1120898

010 WEST PLANT Annual Sludge - TCLP + PCB 5 D

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Sample	Sample ID	Taken	Time	Received
2341564	*Effluent Biweekly WEST*	10/08/2024	10:00:00	10/09/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 8 oz Plastic H2SO4 pH < 2
Bottle 03 BOD Titration Beaker A (Batch 1142036) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 04 BOD Analytical Beaker B (Batch 1142036) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 05 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1142404) Volume: 6.00000 mL <== Derived from 02 (6 ml)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1142404) Volume: 6.00000 mL <== Derived from 02 (6 ml)
Bottle 07 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1142404) Volume: 6.00000 mL <== Derived from 02 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 5210 B-2016 (TCMP Inhibitor)	01	1142036	10/15/2024	1142036	10/15/2024
EPA 350.1 2	05	1142404	10/11/2024	1143355	10/17/2024
SM 2540 D-2015	01	1142432	10/09/2024	1142432	10/09/2024

Sample	Sample ID	Taken	Time	Received
2341567	*Annual Sludge - TCLP + PCB 5 D*	10/08/2024	08:26:00	10/09/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Prepared Bottle: TCLP Extract (Batch 1141970) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 04 Prepared Bottle: TCLP Extract for Metals (Batch 1141970) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 05 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1141970) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 06 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 07 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 08 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 09 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 10 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 11 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142232) Volume: 10.00000 mL <== Derived from 05 (1 ml)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142232) Volume: 10.00000 mL <== Derived from 05 (1 ml)
Bottle 14 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1142314) Volume: 10.00000 mL <== Derived from 05 (200 ml)
Bottle 15 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1142314) Volume: 10.00000 mL <== Derived from 05 (200 ml)
Bottle 16 Prepared Bottle: TCLP Extract for TVOA (Batch 1142472)<== Derived from 01 (0 ml)
Bottle 17 Prepared Bottle: TEDLAR BAG (Batch 1142472) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 18 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1142593) Volume: 10.00000 mL <== Derived from 01 (2 grams)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142687) Volume: 1.00000 mL <== Derived from 05 (100 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	18	1142593	10/14/2024	1143293	10/15/2024
EPA 6010C	09	1142139	10/10/2024	1142284	10/10/2024
EPA 7470 A	06	1142089	10/10/2024	1142396	10/11/2024

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SAMPLE CROSS REFERENCE

Project
1120898

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Sample	Sample ID	Taken	Time	Received
2341567	*Annual Sludge - TCLP + PCB 5 D*	10/08/2024	08:26:00	10/09/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
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Bottle 04 Prepared Bottle: TCLP Extract for Metals (Batch 1141970) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 05 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1141970) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 06 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 07 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 08 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1142089) Volume: 50.00000 mL <== Derived from 04 (2.5 ml)
Bottle 09 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 10 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 11 Prepared Bottle: TCLP Acid Digestion (Batch 1142139) Volume: 50.00000 mL <== Derived from 04 (10 ml)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142232) Volume: 10.00000 mL <== Derived from 05 (1 ml)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142232) Volume: 10.00000 mL <== Derived from 05 (1 ml)
Bottle 14 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1142314) Volume: 10.00000 mL <== Derived from 05 (200 ml)
Bottle 15 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1142314) Volume: 10.00000 mL <== Derived from 05 (200 ml)
Bottle 16 Prepared Bottle: TCLP Extract for TVOA (Batch 1142472)<== Derived from 01 (0 ml)
Bottle 17 Prepared Bottle: TEDLAR BAG (Batch 1142472) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 18 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1142593) Volume: 10.00000 mL <== Derived from 01 (2 grams)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1142687) Volume: 1.00000 mL <== Derived from 05 (100 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8260B	17	1142472	10/11/2024	1143200	10/16/2024
EPA 8081A	14	1142314	10/10/2024	1143235	10/16/2024
EPA 8270C	19	1142687	10/14/2024	1143405	10/16/2024
EPA 8151	12	1142232	10/10/2024	1142568	10/11/2024
SM2540 G-1997 /MOD	01	1142373	10/10/2024	1142373	10/10/2024

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed: 10/17/2024

RESULTS

Sample Results

2341563 **Sampling Transport WEST PLANT** Received: 10/09/2024

Non-Potable Water Collected by: WPW SPL Kilgore PO:
Taken: 10/08/2024 12:00:00

Prepared: 10/11/2024 11:26:09 Calculated 10/11/2024 11:26:09 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Pickup/Transportation**	**Verified**					

2341564 **Effluent Biweekly WEST** COMP 10/7 1000 - 10/8 1000 Received: 10/09/2024

Non-Potable Water Collected by: Client City of Bastrop PO:
Composite Stop 10:00 10/8/24 Taken: 10/08/2024 10:00:00

EPA 350.1 2 Prepared: 1142404 10/11/2024 12:49:21 Analyzed 1143355 10/17/2024 08:19:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Ammonia Nitrogen**	**<0.020**	**mg/L**	0.020	D		05

SM 2540 D-2015 Prepared: 1142432 10/09/2024 16:00:00 Analyzed 1142432 10/09/2024 16:00:00 BLC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Suspended Solids**	**<2.00**	**mg/L**	2.00			01

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1142036 10/10/2024 Analyzed 1142036 10/15/2024 12:57:35 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**BOD Carbonaceous**	**3.89**	**mg/L**	2.00			01

2341567 **Annual Sludge - TCLP + PCB 5 D** Received: 10/09/2024

Solid & Chemical Materials Collected by: Client City of Bastrop PO:
Taken: 10/08/2024 08:26:00

PLANT ID.:_____

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Project 1120898

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed: 10/17/2024

2341567 **Annual Sludge - TCLP + PCB 5 D** Received: 10/09/2024

Solid & Chemical Materials | Collected by: Client | City of Bastrop | PO:

Taken: 10/08/2024 08:26:00

PLANT ID.:_____

Prepared: 10/17/2024 17:01:00 Analyzed 10/17/2024 17:01:00 WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Check Limits**	**Completed**					

EPA 6010C Prepared: 1142139 10/10/2024 11:30:00 Analyzed 1142284 10/10/2024 17:05:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Arsenic**	**<0.250**	**mg/L**	0.250		**7440-38-2**	09
NELAC	**TCLP Barium**	**1.18**	**mg/L**	0.250		**7440-39-3**	09
NELAC	**TCLP Cadmium**	**<0.125**	**mg/L**	0.125		**7440-43-9**	09
NELAC	**TCLP Chromium**	**<0.250**	**mg/L**	0.250		**7440-47-3**	09
NELAC	**TCLP Lead**	**<0.250**	**mg/L**	0.250		**7439-92-1**	09
NELAC	**TCLP Selenium**	**<0.250**	**mg/L**	0.250		**7782-49-2**	09
NELAC	**TCLP Silver**	**<0.050**	**mg/L**	0.050		**7440-22-4**	09

EPA 7470 A Prepared: 1142089 10/10/2024 11:00:00 Analyzed 1142396 10/11/2024 08:40:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Mercury**	**<0.002**	**mg/L**	0.002		**7439-97-6**	06

EPA 8081A Prepared: 1142314 10/10/2024 11:00:00 Analyzed 1143235 10/16/2024 01:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**TCLP Chlordane**	**<0.001**	**mg/L**	0.001		**57-74-9**	14
NELAC	**TCLP Endrin**	**<0.00005**	**mg/L**	0.00005	X	**72-20-8**	14
NELAC	**TCLP gamma-BHC (Lindane)**	**<0.00005**	**mg/L**	0.00005	X	**58-89-9**	14
NELAC	**TCLP Heptachlor**	**<0.00005**	**mg/L**	0.00005	XS	**76-44-8**	14
NELAC	**TCLP Heptachlor Epoxide**	**<0.00005**	**mg/L**	0.00005	X	**1024-57-3**	14
NELAC	**TCLP Methoxychlor**	**<0.00005**	**mg/L**	0.00005	XS	**72-43-5**	14
NELAC	**TCLP Toxaphene**	**<0.001**	**mg/L**	0.001		**8001-35-2**	14

EPA 8082 Prepared: 1142593 10/14/2024 10:22:10 Analyzed 1143293 10/15/2024 16:01:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**PCB-1016**	**<1000 ***	**ug/kg**	1000		**12674-11-2**	18
NELAC	**PCB-1221**	**<1000 ***	**ug/kg**	1000		**11104-28-2**	18
NELAC	**PCB-1232**	**<1000 ***	**ug/kg**	1000		**11141-16-5**	18

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
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Project
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Printed: 10/17/2024

2341567 Annual Sludge - TCLP + PCB 5 D

Received: 10/09/2024

Solid & Chemical Materials | Collected by: Client | City of Bastrop | PO:

Taken: 10/08/2024 08:26:00

PLANT ID.:_____

EPA 8082 — Prepared: 1142593 10/14/2024 10:22:10 — Analyzed 1143293 10/15/2024 16:01:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1242	<1000 *	ug/kg	1000		53469-21-9	18
NELAC	PCB-1248	<1000 *	ug/kg	1000		12672-29-6	18
NELAC	PCB-1254	<1000 *	ug/kg	1000		11097-69-1	18
NELAC	PCB-1260	<1000 *	ug/kg	1000	X	11096-82-5	18
NELAC	PCB-1262	<1000 *	ug/kg	1000		37324-23-5	18
NELAC	PCB-1268	<1000 *	ug/kg	1000		11100-14-4	18

* Dry Weight Basis

EPA 8151 — Prepared: 1142232 10/10/2024 10:30:00 — Analyzed 1142568 10/11/2024 18:20:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500	D	94-75-7	12
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	12

EPA 8260B — Prepared: 1142472 10/11/2024 16:55:00 — Analyzed 1143200 10/16/2024 12:35:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	17
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	17
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	17
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	17
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	17
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	17
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	17
NELAC	TCLP MEK	<0.100	mg/L	0.100		78-93-3	17
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	17
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	17
NELAC	TCLP Vinyl chloride	<0.0104	mg/L	0.0104		75-01-4	17

EPA 8270C — Prepared: 1142687 10/14/2024 09:00:00 — Analyzed 1143405 10/16/2024 19:32:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.010	mg/L	0.010		95-95-4	19
NELAC	TCLP 2,4,6-Trichlorophenol	<0.010	mg/L	0.010		88-06-2	19
NELAC	TCLP 2,4-Dinitrotoluene	<0.035	mg/L	0.035		121-14-2	19

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BAS1-C

Project 1120898

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed: 10/17/2024

2341567 **Annual Sludge - TCLP + PCB 5 D** Received: 10/09/2024

Solid & Chemical Materials Collected by: Client City of Bastrop PO:
Taken: 10/08/2024 08:26:00

PLANT ID.:_____

EPA 8270C Prepared: 1142687 10/14/2024 09:00:00 Analyzed 1143405 10/16/2024 19:32:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.052	mg/L	0.052		95-48-7	19
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.062	mg/L	0.062		108-39-4	19
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	19
NELAC	TCLP Hexachlorobutadiene	<0.010	mg/L	0.010		87-68-3	19
NELAC	TCLP Hexachloroethane	<0.010	mg/L	0.010		67-72-1	19
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	19
NELAC	TCLP Pentachlorophenol	<0.010	mg/L	0.010		87-86-5	19
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.054	mg/L	0.054		110-86-1	19

EPA 8270C Prepared: 1142687 10/14/2024 09:00:00 Calculated 1143405 10/17/2024 17:01:31 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.062	mg/L	0.062		108-39-4,ect.	19

SM2540 G-1997 /MOD Prepared: 1142373 10/10/2024 06:22:00 Analyzed 1142373 10/10/2024 06:22:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	18.5	%	0.010			01

Sample Preparation

2341564 **Effluent Biweekly WEST** COMP 10/7 1000 - 10/8 1000 Received: 10/09/2024

Composite Stop 10:00 10/8/24 10/08/2024

EPA 350.2, Rev. 2.0 Prepared: 1142404 10/11/2024 12:49:21 Analyzed 1142404 10/11/2024 12:49:21 SRJ

NELAC	Ammonia Distillation	6/6	ml				02

SM 2540 D-2011 Prepared: 1141599 10/08/2024 08:44:58 Analyzed 1141599 10/08/2024 08:44:58 BLC

NELAC	TSS Set Started	Started					

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Printed: 10/17/2024

2341564 **Effluent Biweekly WEST** COMP 10/7 1000 - 10/8 1000 *Received:* 10/09/2024

Composite Stop 10:00 10/8/24 10/08/2024

SM 5210 B-2016 (TCMP Inhibitor) *Prepared:* 1142036 10/10/2024 *Analyzed* 1142036 10/10/2024 06:17:29 JW1

NELAC **BODc Set Started** **Started**

2341567 **Annual Sludge - TCLP + PCB 5 D** *Received:* 10/09/2024

10/08/2024

Prepared: 10/17/2024 15:02:22 *Calculated* 10/17/2024 15:02:22 CAL

z **Environmental Fee (per Project)** **Verified**

Calculation *Prepared:* 10/17/2024 17:02:10 *Calculated* 10/17/2024 17:02:10 CAL

As Received to Dry Weight Basis **Calculated**

EPA 1311 *Prepared:* 1141970 10/09/2024 14:00:00 *Analyzed* 1141970 10/09/2024 14:00:00 SLF

NELAC **TCLP Extraction Non-Volatile** **SOLID EXT 1** **ml** 01

EPA 1311ZHE *Prepared:* 1142472 10/11/2024 16:55:00 *Analyzed* 1142472 10/11/2024 16:55:00 SLF

NELAC **TCLP Extraction ZHE Volatiles** **100% SOLID** **ml** 01

EPA 3005A *Prepared:* 1141970 10/09/2024 14:00:00 *Analyzed* 1142139 10/10/2024 11:30:00 HLT

z **Metals Digestion TCLP Extract** **50/10** **ml** 04

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1120898

Printed: 10/17/2024

2341567 Annual Sludge - TCLP + PCB 5 D

Received: 10/09/2024

10/08/2024

EPA 3510C	*Prepared:*	*1141970*	*10/09/2024*	*14:00:00*	*Analyzed*	*1142314*	*10/10/2024*	*11:00:00*	*LSM*	
TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**								05
EPA 3510C	*Prepared:*	*1141970*	*10/09/2024*	*14:00:00*	*Analyzed*	*1142687*	*10/14/2024*	*09:00:00*	*MCC*	
TCLP Liquid-Liquid Extract	**1/100**	**ml**								05
EPA 3550B	*Prepared:*	*1142593*	*10/14/2024*	*10:22:10*	*Analyzed*	*1142593*	*10/14/2024*	*10:22:10*	*PEV*	
NELAC **PCB Total Sonic Extr. W/Hex Exch**	**10/2.0**	**grams**								01
EPA 7470A	*Prepared:*	*1141970*	*10/09/2024*	*14:00:00*	*Analyzed*	*1142089*	*10/10/2024*	*11:00:00*	*ALB*	
NELAC **Metals Digestion TCLP 7470**	**50/2.5**	**ml**								04
EPA 8081A	*Prepared:*	*1142314*	*10/10/2024*	*11:00:00*	*Analyzed*	*1143235*	*10/16/2024*	*01:46:00*	*KAP*	
NELAC **GC TCLP Pesticide**	**Entered**									14
EPA 8082	*Prepared:*	*1142593*	*10/14/2024*	*10:22:10*	*Analyzed*	*1143293*	*10/15/2024*	*16:01:00*	*KAP*	
NELAC **Polychlorinated Biphenyls**	**Entered**									18
EPA 8151	*Prepared:*	*1142232*	*10/10/2024*	*10:30:00*	*Analyzed*	*1142568*	*10/11/2024*	*18:20:00*	*KAP*	
NELAC **GC TCLP Herbicide**	**Entered**									12
EPA 8151A (Prep)	*Prepared:*	*1141970*	*10/09/2024*	*14:00:00*	*Analyzed*	*1142232*	*10/10/2024*	*10:30:00*	*LSM*	

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Printed: 10/17/2024

2341567 **Annual Sludge - TCLP + PCB 5 D** Received: 10/09/2024

10/08/2024

EPA 8151A (Prep)		*Prepared:*	*1141970*	*10/09/2024*	*14:00:00*	*Analyzed*	*1142232*	*10/10/2024*	*10:30:00*	*LSM*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							05
EPA 8260B		*Prepared:*	*1142472*	*10/11/2024*	*16:55:00*	*Analyzed*	*1143200*	*10/16/2024*	*12:35:00*	*MR1*
NELAC	**MS TCLP Volatile Analysis**	**Entered**								17
EPA 8270C		*Prepared:*	*1142687*	*10/14/2024*	*09:00:00*	*Analyzed*	*1143405*	*10/16/2024*	*19:32:00*	*PM1*
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**								19
SM 2540 G-1997		*Prepared:*	*1142033*	*10/10/2024*	*06:22:00*	*Analyzed*	*1142033*	*10/10/2024*	*06:22:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**								

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Qualifiers:

D - Duplicate RPD was higher than expected
S - Standard reads lower than desired
X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

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Analytical Set 1142036 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1142036	0.2	0.200	0.500	mg/L	126865693
BOD Carbonaceous	1142036	0.2	0.200	0.500	mg/L	126865745
BOD Carbonaceous	1142036	0.2	0.200	0.500	mg/L	126865799

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2341460	11.7	11.8	mg/L	0.851	30.0
BOD Carbonaceous	2341619	3.61	3.81	mg/L	5.39	30.0
BOD Carbonaceous	2342009	40.4	37.4	mg/L	7.71	30.0
BOD Carbonaceous	2342155	4.23	3.95	mg/L	6.85	30.0
BOD Carbonaceous	2342233	104	113	mg/L	8.29	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1142036	0.797	0.200	0.500	mg/L	126865695
BOD Carbonaceous	1142036	0.843	0.200	0.500	mg/L	126865747
BOD Carbonaceous	1142036	0.850	0.200	0.500	mg/L	126865801

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		215	198	mg/L	109	83.7 - 116	126865696
BOD Carbonaceous		218	198	mg/L	110	83.7 - 116	126865748
BOD Carbonaceous		219	198	mg/L	111	83.7 - 116	126865802

Analytical Set 1143355 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1142404	ND	0.00336	0.020	mg/L	126898557

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	126898505
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	126898514
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	126898521
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	126898527
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	126898538
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126898546
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126898555
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126898566
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	126898572
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	126898580
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	126898589
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126898599
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126898608

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.10	2.00	mg/L	105	90.0 - 110	126898616
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	126898622

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Ammonia Nitrogen	2341564	0.011	0.008	mg/L	31.6	*	20.0
Ammonia Nitrogen	2341619	0.058	0.085	mg/L	37.8	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126898504

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Ammonia Nitrogen	1142404	2.07	2.13	2.00	90.0 - 110	104	106	mg/L	2.86	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Ammonia Nitrogen	2341564	2.05	0.008	2.00	mg/L	102	80.0 - 120	126898562
Ammonia Nitrogen	2341619	2.17	0.085	2.00	mg/L	104	80.0 - 120	126898565

Analytical Set 1142432 — SM 2540 D-2015

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Suspended Solids	1142432	ND	2	2	mg/L	126875212

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Suspended Solids	1142432	0.0003			grams	126875211

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Total Suspended Solids	2341547	276	294	mg/L	6.32		20.0
Total Suspended Solids	2341560	101	127	mg/L	22.8	*	20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
Total Suspended Solids	1142432	46.0	50.0	mg/L	92.0	90.0 - 110	126875230

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Suspended Solids		96.0	100	mg/L	96.0	90.0 - 110	126875229

Analytical Set 1142373 — SM2540 G-1997 /MOD

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Solids for Dry Wt Conversi	1142373	0.0002			grams	126874280

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Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Solids for Dry Wt Conversi	2341465	0.159	0.159	%	0	20.0
Total Solids for Dry Wt Conversi	2342168	8.76	10.5	%	18.1	20.0

Analytical Set 1142284 — EPA 6010C

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Arsenic	1142139	ND	0.0149	0.050	mg/L	126871037
TCLP Barium	1142139	ND	0.00102	0.050	mg/L	126871037
TCLP Cadmium	1142139	ND	0.0014	0.025	mg/L	126871037
TCLP Chromium	1142139	ND	0.00175	0.050	mg/L	126871037
TCLP Lead	1142139	ND	0.0146	0.050	mg/L	126871037
TCLP Selenium	1142139	ND	0.0282	0.050	mg/L	126871037
TCLP Silver	1142139	ND	0.00208	0.010	mg/L	126871037

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.50	2.50	mg/L	100	90.0 - 110	126871023
TCLP Arsenic	2.52	2.50	mg/L	101	90.0 - 110	126871024
TCLP Arsenic	2.54	2.50	mg/L	102	90.0 - 110	126871026
TCLP Arsenic	2.56	2.50	mg/L	102	90.0 - 110	126871036
TCLP Arsenic	2.62	2.50	mg/L	105	90.0 - 110	126871045
TCLP Arsenic	2.62	2.50	mg/L	105	90.0 - 110	126871051
TCLP Barium	2.59	2.50	mg/L	104	90.0 - 110	126871023
TCLP Barium	2.67	2.50	mg/L	107	90.0 - 110	126871024
TCLP Barium	2.64	2.50	mg/L	106	90.0 - 110	126871026
TCLP Barium	2.61	2.50	mg/L	104	90.0 - 110	126871036
TCLP Barium	2.70	2.50	mg/L	108	90.0 - 110	126871045
TCLP Barium	2.70	2.50	mg/L	108	90.0 - 110	126871051
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	126871023
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	126871024
TCLP Cadmium	1.28	1.25	mg/L	102	90.0 - 110	126871026
TCLP Cadmium	1.28	1.25	mg/L	102	90.0 - 110	126871036
TCLP Cadmium	1.32	1.25	mg/L	106	90.0 - 110	126871045
TCLP Cadmium	1.32	1.25	mg/L	106	90.0 - 110	126871051
TCLP Chromium	2.41	2.50	mg/L	96.4	90.0 - 110	126871023
TCLP Chromium	2.43	2.50	mg/L	97.2	90.0 - 110	126871024
TCLP Chromium	2.44	2.50	mg/L	97.6	90.0 - 110	126871026
TCLP Chromium	2.44	2.50	mg/L	97.6	90.0 - 110	126871036
TCLP Chromium	2.52	2.50	mg/L	101	90.0 - 110	126871045
TCLP Chromium	2.52	2.50	mg/L	101	90.0 - 110	126871051
TCLP Lead	2.53	2.50	mg/L	101	90.0 - 110	126871023
TCLP Lead	2.52	2.50	mg/L	101	90.0 - 110	126871024
TCLP Lead	2.55	2.50	mg/L	102	90.0 - 110	126871026
TCLP Lead	2.53	2.50	mg/L	101	90.0 - 110	126871036
TCLP Lead	2.60	2.50	mg/L	104	90.0 - 110	126871045

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Lead	2.61	2.50	mg/L	104	90.0 - 110	126871051
TCLP Selenium	2.49	2.50	mg/L	99.6	90.0 - 110	126871023
TCLP Selenium	2.53	2.50	mg/L	101	90.0 - 110	126871024
TCLP Selenium	2.59	2.50	mg/L	104	90.0 - 110	126871026
TCLP Selenium	2.58	2.50	mg/L	103	90.0 - 110	126871036
TCLP Selenium	2.66	2.50	mg/L	106	90.0 - 110	126871045
TCLP Selenium	2.65	2.50	mg/L	106	90.0 - 110	126871051
TCLP Silver	0.503	0.500	mg/L	101	90.0 - 110	126871023
TCLP Silver	0.506	0.500	mg/L	101	90.0 - 110	126871024
TCLP Silver	0.509	0.500	mg/L	102	90.0 - 110	126871026
TCLP Silver	0.509	0.500	mg/L	102	90.0 - 110	126871036
TCLP Silver	0.523	0.500	mg/L	105	90.0 - 110	126871045
TCLP Silver	0.523	0.500	mg/L	105	90.0 - 110	126871051

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	4.92	5.00	mg/L	98.4	95.0 - 105	126871017
TCLP Barium	4.98	5.00	mg/L	99.6	95.0 - 105	126871017
TCLP Cadmium	2.46	2.50	mg/L	98.4	95.0 - 105	126871017
TCLP Chromium	4.76	5.00	mg/L	95.2	95.0 - 105	126871017
TCLP Lead	4.93	5.00	mg/L	98.6	95.0 - 105	126871017
TCLP Selenium	4.85	5.00	mg/L	97.0	95.0 - 105	126871017
TCLP Silver	0.987	1.00	mg/L	98.7	95.0 - 105	126871017

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.50	2.50	mg/L	100	90.0 - 110	126871021
TCLP Barium	2.64	2.50	mg/L	106	90.0 - 110	126871021
TCLP Cadmium	1.29	1.25	mg/L	103	90.0 - 110	126871021
TCLP Chromium	2.45	2.50	mg/L	98.0	90.0 - 110	126871021
TCLP Lead	2.56	2.50	mg/L	102	90.0 - 110	126871021
TCLP Selenium	2.53	2.50	mg/L	101	90.0 - 110	126871021
TCLP Silver	0.518	0.500	mg/L	104	90.0 - 110	126871021

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	1142139	0.476	0.471	0.500	87.8 - 119	95.2	94.2	mg/L	1.06	30.0
TCLP Barium	1142139	0.479	0.475	0.500	86.1 - 118	95.8	95.0	mg/L	0.839	30.0
TCLP Cadmium	1142139	0.221	0.220	0.250	85.7 - 117	88.4	88.0	mg/L	0.454	30.0
TCLP Chromium	1142139	0.458	0.457	0.500	93.8 - 121	91.6	91.4	mg/L	0.219	30.0
TCLP Lead	1142139	0.441	0.438	0.500	85.0 - 123	88.2	87.6	mg/L	0.683	30.0
TCLP Selenium	1142139	0.480	0.473	0.500	81.8 - 123	96.0	94.6	mg/L	1.47	30.0
TCLP Silver	1142139	0.0912	0.091	0.100	80.4 - 123	91.2	91.0	mg/L	0.220	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	2341567	2.42	2.42	0.0228	2.50	73.8 - 133	95.9	95.9	mg/L	0	30.0
TCLP Barium	2341567	3.60	3.63	1.18	2.50	73.3 - 125	96.8	98.0	mg/L	1.23	30.0
TCLP Cadmium	2341567	1.09	1.09	ND	1.25	47.5 - 140	87.2	87.2	mg/L	0	30.0
TCLP Chromium	2341567	2.30	2.32	ND	2.50	83.9 - 121	92.0	92.8	mg/L	0.866	30.0
TCLP Lead	2341567	2.19	2.24	ND	2.50	71.8 - 120	87.6	89.6	mg/L	2.26	30.0
TCLP Selenium	2341567	2.49	2.31	0.0764	2.50	59.3 - 142	96.5	89.3	mg/L	7.75	30.0
TCLP Silver	2341567	0.453	0.455	ND	0.500	72.3 - 126	90.6	91.0	mg/L	0.441	30.0

Analytical Set 1142396 — EPA 7470 A

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Mercury	1142089	ND	0.000113	0.0002	mg/L	126874692

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.00506	0.005	mg/L	101	90.0 - 110	126874690
TCLP Mercury	0.00518	0.005	mg/L	104	90.0 - 110	126874691
TCLP Mercury	0.00484	0.005	mg/L	96.8	90.0 - 110	126874701
TCLP Mercury	0.00491	0.005	mg/L	98.2	90.0 - 110	126874703

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.0208	0.02	mg/L	104	90.0 - 110	126874689

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Mercury	0.00494	0.005	mg/L	98.8	90.0 - 110	126874688

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Mercury	1142089	0.00935	0.00953	0.010	85.1 - 117	93.5	95.3	mg/L	1.91	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Mercury	2341567	0.0923	0.0919	ND	0.100	80.9 - 121	92.3	91.9	mg/L	0.434	20.0

Analytical Set 1142568 — EPA 8151

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 2,4 D	1141970	ND	0.0159	0.050	mg/L	126877416
TCLP 2,4,5-TP (Silvex)	1141970	ND	0.00893	0.030	mg/L	126877416
TCLP 2,4 D	1142232	ND	0.0159	0.050	mg/L	126877408
TCLP 2,4,5-TP (Silvex)	1142232	ND	0.00893	0.030	mg/L	126877408

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4 D	0.162	0.150	mg/L	108	70.0 - 130	126877407

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BAS1-C

City of Bastrop
Curtis Hancock
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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4 D	0.180	0.150	mg/L	120	70.0 - 130	126877419
TCLP 2,4 D	0.189	0.150	mg/L	126	70.0 - 130	126877426
TCLP 2,4,5-TP (Silvex)	0.159	0.150	mg/L	106	70.0 - 130	126877407
TCLP 2,4,5-TP (Silvex)	0.171	0.150	mg/L	114	70.0 - 130	126877419
TCLP 2,4,5-TP (Silvex)	0.178	0.150	mg/L	119	70.0 - 130	126877426

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4 D	1142232	0.0678	0.0999	0.100	2.06 - 194	67.8	99.9	mg/L	38.3 *	30.0
TCLP 2,4,5-TP (Silvex)	1142232	0.0662	0.0883	0.100	19.3 - 162	66.2	88.3	mg/L	28.6	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4 D	2341567	0.772	0	0.0354	1.00	0.100 - 228	77.2		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2341567	0.744	0	ND	1.00	2.02 - 165	74.4		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4-Dichlorophenylacetic Acid		CCV	0.144	0.200	mg/L	72.0	0.100 - 294	126877407
2,4-Dichlorophenylacetic Acid		CCV	0.153	0.200	mg/L	76.5	0.100 - 294	126877419
2,4-Dichlorophenylacetic Acid		CCV	0.161	0.200	mg/L	80.5	0.100 - 294	126877426
2,4-Dichlorophenylacetic Acid	1141970	Blank	0.0834	0.200	mg/L	41.7	0.100 - 294	126877416
2,4-Dichlorophenylacetic Acid	1142232	Blank	0.0675	0.200	mg/L	33.8	0.100 - 294	126877408
2,4-Dichlorophenylacetic Acid	1142232	LCS	0.0707	0.200	mg/L	35.4	0.100 - 294	126877409
2,4-Dichlorophenylacetic Acid	1142232	LCS Dup	0.0826	0.200	mg/L	41.3	0.100 - 294	126877410
2,4-Dichlorophenylacetic Acid	2341567	Unknown	0.805	2.00	mg/L	40.2	0.100 - 294	126877417
2,4-Dichlorophenylacetic Acid	2341567	MS	0.784	2.00	mg/L	39.2	0.100 - 294	126877418

Analytical Set 1143200 — EPA 8260B

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1143200	174	25	0.4	0 - 2.00	126893660
BFB Mass 174	1143200	95.0	6003	52.0	50.0 - 100	126893660
BFB Mass 175	1143200	174	436	7.3	5.00 - 9.00	126893660
BFB Mass 176	1143200	174	5800	96.6	95.0 - 101	126893660
BFB Mass 177	1143200	176	361	6.2	5.00 - 9.00	126893660
BFB Mass 50	1143200	95.0	1913	16.6	15.0 - 40.0	126893660
BFB Mass 75	1143200	95.0	6135	53.1	30.0 - 60.0	126893660
BFB Mass 95	1143200	95.0	11545	100.0	100 - 100	126893660
BFB Mass 96	1143200	95.0	776	6.7	5.00 - 9.00	126893660

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 1,1-Dichloroethene	1143200	ND	0.000812	0.001	mg/L	126893664
TCLP 1,1-Dichloroethene	1143200	ND	0.000812	0.001	mg/L	126893665
TCLP 1,1-Dichloroethene	1143200	ND	0.000812	0.001	mg/L	126893666

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 1,2-Dichloroethane	1143200	ND	0.000856	0.001	mg/L	126893664
TCLP 1,2-Dichloroethane	1143200	ND	0.000856	0.001	mg/L	126893665
TCLP 1,2-Dichloroethane	1143200	ND	0.000856	0.001	mg/L	126893666
TCLP 1,4 Dichlorobenzene	1143200	ND	0.000865	0.001	mg/L	126893664
TCLP 1,4 Dichlorobenzene	1143200	ND	0.000865	0.001	mg/L	126893665
TCLP 1,4 Dichlorobenzene	1143200	ND	0.000865	0.001	mg/L	126893666
TCLP Benzene	1143200	ND	0.000813	0.001	mg/L	126893664
TCLP Benzene	1143200	ND	0.000813	0.001	mg/L	126893665
TCLP Benzene	1143200	ND	0.000813	0.001	mg/L	126893666
TCLP Carbon tetrachloride	1143200	ND	0.000825	0.001	mg/L	126893664
TCLP Carbon tetrachloride	1143200	ND	0.000825	0.001	mg/L	126893665
TCLP Carbon tetrachloride	1143200	ND	0.000825	0.001	mg/L	126893666
TCLP Chlorobenzene	1143200	ND	0.000945	0.001	mg/L	126893664
TCLP Chlorobenzene	1143200	ND	0.000945	0.001	mg/L	126893665
TCLP Chlorobenzene	1143200	ND	0.000945	0.001	mg/L	126893666
TCLP Chloroform	1143200	ND	0.000945	0.001	mg/L	126893664
TCLP Chloroform	1143200	ND	0.000945	0.001	mg/L	126893665
TCLP Chloroform	1143200	ND	0.000945	0.001	mg/L	126893666
TCLP MEK	1143200	ND	0.00654	0.010	mg/L	126893664
TCLP MEK	1143200	ND	0.00654	0.010	mg/L	126893665
TCLP MEK	1143200	ND	0.00654	0.010	mg/L	126893666
TCLP Tetrachloroethylene	1143200	ND	0.000921	0.001	mg/L	126893664
TCLP Tetrachloroethylene	1143200	ND	0.000921	0.001	mg/L	126893665
TCLP Tetrachloroethylene	1143200	ND	0.000921	0.001	mg/L	126893666
TCLP Trichloroethylene	1143200	ND	0.000789	0.001	mg/L	126893664
TCLP Trichloroethylene	1143200	ND	0.000789	0.001	mg/L	126893665
TCLP Trichloroethylene	1143200	ND	0.000789	0.001	mg/L	126893666
TCLP Vinyl chloride	1143200	ND	0.00104	0.00104	mg/L	126893664
TCLP Vinyl chloride	1143200	ND	0.00104	0.00104	mg/L	126893665
TCLP Vinyl chloride	1143200	ND	0.00104	0.00104	mg/L	126893666

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 1,1-Dichloroethene	0.0195	0.020	mg/L	97.5	70.0 - 130	126893663
TCLP 1,2-Dichloroethane	0.0203	0.020	mg/L	102	70.0 - 130	126893663
TCLP 1,4 Dichlorobenzene	0.0189	0.020	mg/L	94.5	70.0 - 130	126893663
TCLP Benzene	0.0201	0.020	mg/L	100	70.0 - 130	126893663
TCLP Carbon tetrachloride	0.0208	0.020	mg/L	104	70.0 - 130	126893663
TCLP Chlorobenzene	0.020	0.020	mg/L	100	70.0 - 130	126893663
TCLP Chloroform	0.0203	0.020	mg/L	102	70.0 - 130	126893663
TCLP MEK	0.0222	0.020	mg/L	111	70.0 - 130	126893663
TCLP Tetrachloroethylene	0.0201	0.020	mg/L	100	70.0 - 130	126893663
TCLP Trichloroethylene	0.0197	0.020	mg/L	98.5	70.0 - 130	126893663
TCLP Vinyl chloride	0.0233	0.020	mg/L	116	70.0 - 130	126893663

QUALITY CONTROL

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City of Bastrop
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IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1143200	LCS	119100	115500	80870	150200	126893661	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	LCS Dup	120100	115500	80870	150200	126893662	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	CCV	115500	115500	80870	150200	126893663	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	98610	115500	80870	150200	126893664	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	104300	115500	80870	150200	126893665	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	106500	115500	80870	150200	126893666	1143200
ChlorobenzeneD5 (ISTD)	1143200	LCS	222600	218900	153200	284500	126893661	1143200
ChlorobenzeneD5 (ISTD)	1143200	LCS Dup	224100	218900	153200	284500	126893662	1143200
ChlorobenzeneD5 (ISTD)	1143200	CCV	218900	218900	153200	284500	126893663	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	201100	218900	153200	284500	126893664	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	212600	218900	153200	284500	126893665	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	221600	218900	153200	284500	126893666	1143200

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1143200	LCS	11.08	11.08	11.02	11.14	126893661	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	LCS Dup	11.08	11.08	11.02	11.14	126893662	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	11.08	11.08	11.02	11.14	126893664	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	11.08	11.08	11.02	11.14	126893665	1143200
1,4-DichlorobenzeneD4 (ISTD)	1143200	Blank	11.08	11.08	11.02	11.14	126893666	1143200
ChlorobenzeneD5 (ISTD)	1143200	LCS	8.711	8.711	8.651	8.771	126893661	1143200
ChlorobenzeneD5 (ISTD)	1143200	LCS Dup	8.711	8.711	8.651	8.771	126893662	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	8.717	8.711	8.651	8.771	126893664	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	8.711	8.711	8.651	8.771	126893665	1143200
ChlorobenzeneD5 (ISTD)	1143200	Blank	8.711	8.711	8.651	8.771	126893666	1143200

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1143200	0.0201	0.0201	0.020	56.7 - 135	100	100	mg/L	0	30.0
TCLP 1,2-Dichloroethane	1143200	0.0196	0.0194	0.020	69.8 - 132	98.0	97.0	mg/L	1.03	30.0
TCLP 1,4 Dichlorobenzene	1143200	0.0176	0.0184	0.020	74.8 - 116	88.0	92.0	mg/L	4.44	30.0
TCLP Benzene	1143200	0.020	0.0198	0.020	67.1 - 123	100	99.0	mg/L	1.01	30.0
TCLP Carbon tetrachloride	1143200	0.0195	0.0195	0.020	60.1 - 132	97.5	97.5	mg/L	0	30.0
TCLP Chlorobenzene	1143200	0.0193	0.0197	0.020	74.0 - 115	96.5	98.5	mg/L	2.05	30.0
TCLP Chloroform	1143200	0.0196	0.0194	0.020	71.1 - 128	98.0	97.0	mg/L	1.03	30.0
TCLP MEK	1143200	0.0214	0.0217	0.020	40.7 - 166	107	108	mg/L	0.930	30.0
TCLP Tetrachloroethylene	1143200	0.0192	0.020	0.020	71.2 - 126	96.0	100	mg/L	4.08	30.0
TCLP Trichloroethylene	1143200	0.0187	0.019	0.020	71.4 - 126	93.5	95.0	mg/L	1.59	30.0
TCLP Vinyl chloride	1143200	0.0154	0.0156	0.020	18.5 - 155	77.0	78.0	mg/L	1.29	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1143200	LCS	0.016	0.020	mg/L	80.0	74.2 - 132	126893661
1,2-DCA-d4 (SURR)	1143200	LCS Dup	0.0161	0.020	mg/L	80.5	74.2 - 132	126893662
1,2-DCA-d4 (SURR)	1143200	CCV	0.0157	0.020	mg/L	78.5	74.2 - 132	126893663
1,2-DCA-d4 (SURR)	1143200	Blank	0.0165	0.020	mg/L	82.5	74.2 - 132	126893664

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BAS1-C

City of Bastrop
Curtis Hancock
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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1143200	Blank	0.0166	0.020	mg/L	83.0	74.2 - 132	126893665
1,2-DCA-d4 (SURR)	1143200	Blank	0.0168	0.020	mg/L	84.0	74.2 - 132	126893666
Bromofluorobenzene (SURR)	1143200	LCS	0.0202	0.020	mg/L	101	77.2 - 134	126893661
Bromofluorobenzene (SURR)	1143200	LCS Dup	0.020	0.020	mg/L	100	77.2 - 134	126893662
Bromofluorobenzene (SURR)	1143200	CCV	0.0202	0.020	mg/L	101	77.2 - 134	126893663
Bromofluorobenzene (SURR)	1143200	Blank	0.0192	0.020	mg/L	96.0	77.2 - 134	126893664
Bromofluorobenzene (SURR)	1143200	Blank	0.0197	0.020	mg/L	98.5	77.2 - 134	126893665
Bromofluorobenzene (SURR)	1143200	Blank	0.0196	0.020	mg/L	98.0	77.2 - 134	126893666
Dibromofluoromethane (SURR)	1143200	LCS	0.0169	0.020	mg/L	84.5	67.2 - 122	126893661
Dibromofluoromethane (SURR)	1143200	LCS Dup	0.0166	0.020	mg/L	83.0	67.2 - 122	126893662
Dibromofluoromethane (SURR)	1143200	CCV	0.0168	0.020	mg/L	84.0	67.2 - 122	126893663
Dibromofluoromethane (SURR)	1143200	Blank	0.0169	0.020	mg/L	84.5	67.2 - 122	126893664
Dibromofluoromethane (SURR)	1143200	Blank	0.0166	0.020	mg/L	83.0	67.2 - 122	126893665
Dibromofluoromethane (SURR)	1143200	Blank	0.017	0.020	mg/L	85.0	67.2 - 122	126893666
TolueneD8 (SURR)	1143200	LCS	0.017	0.020	mg/L	85.0	69.2 - 122	126893661
TolueneD8 (SURR)	1143200	LCS Dup	0.0172	0.020	mg/L	86.0	69.2 - 122	126893662
TolueneD8 (SURR)	1143200	CCV	0.0174	0.020	mg/L	87.0	69.2 - 122	126893663
TolueneD8 (SURR)	1143200	Blank	0.0163	0.020	mg/L	81.5	69.2 - 122	126893664
TolueneD8 (SURR)	1143200	Blank	0.0171	0.020	mg/L	85.5	69.2 - 122	126893665
TolueneD8 (SURR)	1143200	Blank	0.0166	0.020	mg/L	83.0	69.2 - 122	126893666
1,2-DCA-d4 (SURR)	2341567	Unknown	0.0159	0.020	mg/L	79.5	74.2 - 132	126893668
Bromofluorobenzene (SURR)	2341567	Unknown	0.0187	0.020	mg/L	93.5	77.2 - 134	126893668
Dibromofluoromethane (SURR)	2341567	Unknown	0.0172	0.020	mg/L	86.0	67.2 - 122	126893668
TolueneD8 (SURR)	2341567	Unknown	0.016	0.020	mg/L	80.0	69.2 - 122	126893668

Analytical Set 1143235 — EPA 8081A

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Chlordane	1141970	ND	0.0000183	0.00002	mg/L	126895639
TCLP Endrin	1141970	ND	0.000538	0.001	mg/L	126895639
TCLP gamma-BHC (Lindane)	1141970	ND	0.000385	0.001	mg/L	126895639
TCLP Heptachlor	1141970	0.000864	0.000207	0.001	mg/L	126895639
TCLP Heptachlor Epoxide	1141970	ND	0.00066	0.001	mg/L	126895639
TCLP Methoxychlor	1141970	ND	0.000898	0.001	mg/L	126895639
TCLP Toxaphene	1141970	ND	0.000169	0.0002	mg/L	126895639
TCLP Chlordane	1142314	ND	0.0000183	0.00002	mg/L	126895633
TCLP Endrin	1142314	ND	0.000538	0.001	mg/L	126895633
TCLP gamma-BHC (Lindane)	1142314	ND	0.000385	0.001	mg/L	126895633
TCLP Heptachlor	1142314	ND	0.000207	0.001	mg/L	126895633
TCLP Heptachlor Epoxide	1142314	ND	0.00066	0.001	mg/L	126895633
TCLP Methoxychlor	1142314	ND	0.000898	0.001	mg/L	126895633
TCLP Toxaphene	1142314	ND	0.000169	0.0002	mg/L	126895633

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*

QUALITY CONTROL

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
TCLP Endrin	0.0254	0.025	mg/L	102	70.0 - 130		126895632
TCLP Endrin	0.0713	0.050	mg/L	143	70.0 - 130	*	126895636
TCLP Endrin	0.0665	0.050	mg/L	133	70.0 - 130	*	126895642
TCLP Endrin	0.0225	0.025	mg/L	90.2	70.0 - 130		126895656
TCLP gamma-BHC (Lindane)	0.0249	0.025	mg/L	99.4	70.0 - 130		126895632
TCLP gamma-BHC (Lindane)	0.0813	0.050	mg/L	163	70.0 - 130	*	126895636
TCLP gamma-BHC (Lindane)	0.0782	0.050	mg/L	156	70.0 - 130	*	126895642
TCLP gamma-BHC (Lindane)	0.0304	0.025	mg/L	122	70.0 - 130		126895656
TCLP Heptachlor	0.0249	0.025	mg/L	99.7	70.0 - 130		126895632
TCLP Heptachlor	0.068	0.050	mg/L	136	70.0 - 130	*	126895636
TCLP Heptachlor	0.0648	0.050	mg/L	130	70.0 - 130		126895642
TCLP Heptachlor	0.016	0.025	mg/L	64.2	70.0 - 130	*	126895656
TCLP Heptachlor Epoxide	0.0253	0.025	mg/L	101	70.0 - 130		126895632
TCLP Heptachlor Epoxide	0.0702	0.050	mg/L	140	70.0 - 130	*	126895636
TCLP Heptachlor Epoxide	0.0663	0.050	mg/L	133	70.0 - 130	*	126895642
TCLP Heptachlor Epoxide	0.0242	0.025	mg/L	96.9	70.0 - 130		126895656
TCLP Methoxychlor	0.0276	0.025	mg/L	110	70.0 - 130		126895632
TCLP Methoxychlor	0.0845	0.050	mg/L	169	70.0 - 130	*	126895636
TCLP Methoxychlor	0.0788	0.050	mg/L	158	70.0 - 130	*	126895642
TCLP Methoxychlor	0.0045	0.025	mg/L	18.0	70.0 - 130	*	126895656

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	1142314	0.0769	0.0724	0.100	42.6 - 137	76.9	72.4	mg/L	6.03	30.0
TCLP gamma-BHC (Lindane)	1142314	0.0851	0.0715	0.100	33.0 - 129	85.1	71.5	mg/L	17.4	30.0
TCLP Heptachlor	1142314	0.0531	0.0544	0.100	24.2 - 129	53.1	54.4	mg/L	2.42	30.0
TCLP Heptachlor Epoxide	1142314	0.0751	0.0703	0.100	40.8 - 128	75.1	70.3	mg/L	6.60	30.0
TCLP Methoxychlor	1142314	0.0925	0.0898	0.100	33.3 - 146	92.5	89.8	mg/L	2.96	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	2321567	0.0763	0	ND	0.100	24.3 - 151	76.3		mg/L		30.0
TCLP gamma-BHC (Lindane)	2321567	0.0769	0	ND	0.100	21.3 - 144	76.9		mg/L		30.0
TCLP Heptachlor	2321567	0.0552	0	ND	0.100	14.9 - 138	55.2		mg/L		30.0
TCLP Heptachlor Epoxide	2321567	0.0745	0	ND	0.100	29.9 - 133	74.5		mg/L		30.0
TCLP Methoxychlor	2321567	0.0846	0	ND	0.100	10.3 - 183	84.6		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl		CCV	0.0253	0.100	mg/L	25.3	10.0 - 150	126895632
Decachlorobiphenyl		CCV	0.0689	0.100	mg/L	68.9	10.0 - 150	126895636
Decachlorobiphenyl		CCV	0.0676	0.100	mg/L	67.6	10.0 - 150	126895642
Decachlorobiphenyl		CCV	0.0226	0.100	mg/L	22.6	10.0 - 150	126895656
Tetrachloro-m-Xylene (Surr)		CCV	0.021	0.100	mg/L	21.0	10.0 - 150	126895632
Tetrachloro-m-Xylene (Surr)		CCV	0.0581	0.100	mg/L	58.1	10.0 - 150	126895636
Tetrachloro-m-Xylene (Surr)		CCV	0.0587	0.100	mg/L	58.7	10.0 - 150	126895642

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City of Bastrop
Curtis Hancock
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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tetrachloro-m-Xylene (Surr)		CCV	0.0226	0.100	mg/L	22.6	10.0 - 150	126895656
Decachlorobiphenyl	1141970	Blank	0.070	0.100	mg/L	70.0	10.0 - 150	126895639
Tetrachloro-m-Xylene (Surr)	1141970	Blank	0.0541	0.100	mg/L	54.1	10.0 - 150	126895639
Decachlorobiphenyl	1142314	Blank	0.0515	0.100	mg/L	51.5	10.0 - 150	126895633
Decachlorobiphenyl	1142314	LCS	0.0613	0.100	mg/L	61.3	10.0 - 150	126895634
Decachlorobiphenyl	1142314	LCS Dup	0.0674	0.100	mg/L	67.4	10.0 - 150	126895635
Tetrachloro-m-Xylene (Surr)	1142314	Blank	0.0477	0.100	mg/L	47.7	10.0 - 150	126895633
Tetrachloro-m-Xylene (Surr)	1142314	LCS	0.0471	0.100	mg/L	47.1	10.0 - 150	126895634
Tetrachloro-m-Xylene (Surr)	1142314	LCS Dup	0.0469	0.100	mg/L	46.9	10.0 - 150	126895635
Decachlorobiphenyl	2321567	MS	0.0567	0.100	mg/L	56.7	10.0 - 150	126895641
Tetrachloro-m-Xylene (Surr)	2321567	MS	0.0498	0.100	mg/L	49.8	10.0 - 150	126895641
Decachlorobiphenyl	2341567	Unknown	0.00308	0.005	mg/L	61.6	10.0 - 150	126895640
Tetrachloro-m-Xylene (Surr)	2341567	Unknown	0.00279	0.005	mg/L	55.8	10.0 - 150	126895640

Analytical Set 1143293 — EPA 8082

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
PCB-1016	1142593	ND	43.0	250	ug/kg	126897264
PCB-1221	1142593	ND	43.0	250	ug/kg	126897264
PCB-1232	1142593	ND	43.0	250	ug/kg	126897264
PCB-1242	1142593	ND	43.0	250	ug/kg	126897264
PCB-1248	1142593	ND	43.0	250	ug/kg	126897264
PCB-1254	1142593	ND	43.0	250	ug/kg	126897264
PCB-1260	1142593	ND	43.0	250	ug/kg	126897264

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
PCB-1016	1090	1000	ug/kg	109	80.0 - 120		126897263
PCB-1016	1110	1000	ug/kg	111	80.0 - 120		126897272
PCB-1260	1200	1000	ug/kg	120	80.0 - 120		126897263
PCB-1260	1290	1000	ug/kg	129	80.0 - 120	*	126897272

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
PCB-1016	1142593	4700	4450	5000	28.4 - 187	94.0	89.0	ug/kg	5.46	30.0
PCB-1260	1142593	5570	5130	5000	22.3 - 183	111	103	ug/kg	7.48	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
PCB-1016	2341926	4920	4860	ND	10000	0.100 - 427	49.2	48.6	ug/kg	1.23	30.0
PCB-1260	2341926	5770	5720	ND	10000	0.100 - 470	57.7	57.2	ug/kg	0.870	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	1142593	Blank	67.7	100	ug/kg	67.7	10.0 - 200	126897264
Tetrachloro-m-Xylene (Surr)	1142593	Blank	82.7	100	ug/kg	82.7	10.0 - 160	126897264

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	2341567	Unknown	320	500	ug/kg	64.0	10.0 - 200	126897267
Tetrachloro-m-Xylene (Surr)	2341567	Unknown	412	500	ug/kg	82.4	10.0 - 160	126897267

Analytical Set 1143405 — EPA 8270C

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 2,4,5-Trichlorophenol	1141970	ND	0.000734	0.001	mg/L	126899714
TCLP 2,4,6-Trichlorophenol	1141970	ND	0.000704	0.001	mg/L	126899714
TCLP 2,4-Dinitrotoluene	1141970	ND	0.00335	0.0035	mg/L	126899714
TCLP 2-Methylphenol (o-Cresol)	1141970	ND	0.00513	0.0052	mg/L	126899714
TCLP 3&4-Methylphenol (m&p-Creso	1141970	ND	0.00615	0.0062	mg/L	126899714
TCLP Hexachlorobenzene	1141970	ND	0.000187	0.001	mg/L	126899714
TCLP Hexachlorobutadiene	1141970	ND	0.000618	0.001	mg/L	126899714
TCLP Hexachloroethane	1141970	ND	0.000789	0.001	mg/L	126899714
TCLP Nitrobenzene	1141970	ND	0.00039	0.001	mg/L	126899714
TCLP Pentachlorophenol	1141970	0.0009	0.000129	0.001	mg/L	126899714
TCLP Pyridine (Reg. Limit 5)	1141970	ND	0.00533	0.0054	mg/L	126899714
TCLP 2,4,5-Trichlorophenol	1142687	ND	0.000734	0.001	mg/L	126899711
TCLP 2,4,6-Trichlorophenol	1142687	ND	0.000704	0.001	mg/L	126899711
TCLP 2,4-Dinitrotoluene	1142687	ND	0.00335	0.0035	mg/L	126899711
TCLP 2-Methylphenol (o-Cresol)	1142687	ND	0.00513	0.0052	mg/L	126899711
TCLP 3&4-Methylphenol (m&p-Creso	1142687	ND	0.00615	0.0062	mg/L	126899711
TCLP Hexachlorobenzene	1142687	ND	0.000187	0.001	mg/L	126899711
TCLP Hexachlorobutadiene	1142687	ND	0.000618	0.001	mg/L	126899711
TCLP Hexachloroethane	1142687	ND	0.000789	0.001	mg/L	126899711
TCLP Nitrobenzene	1142687	ND	0.00039	0.001	mg/L	126899711
TCLP Pentachlorophenol	1142687	0.00088	0.000129	0.001	mg/L	126899711
TCLP Pyridine (Reg. Limit 5)	1142687	ND	0.00533	0.0054	mg/L	126899711

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4,5-Trichlorophenol	51.7	50.0	mg/L	103	70.0 - 130	126899709
TCLP 2,4,6-Trichlorophenol	51.4	50.0	mg/L	103	70.0 - 130	126899709
TCLP 2,4-Dinitrotoluene	52.4	50.0	mg/L	105	70.0 - 130	126899709
TCLP 2-Methylphenol (o-Cresol)	49.3	50.0	mg/L	98.6	70.0 - 130	126899709
TCLP 3&4-Methylphenol (m&p-Creso	49.6	50.0	mg/L	99.3	70.0 - 130	126899709
TCLP Hexachlorobenzene	51.1	50.0	mg/L	102	70.0 - 130	126899709
TCLP Hexachlorobutadiene	45.4	50.0	mg/L	90.9	70.0 - 130	126899709
TCLP Hexachloroethane	49.9	50.0	mg/L	99.8	70.0 - 130	126899709
TCLP Nitrobenzene	51.2	50.0	mg/L	102	70.0 - 130	126899709
TCLP Pentachlorophenol	44.6	50.0	mg/L	89.1	70.0 - 130	126899709
TCLP Pyridine (Reg. Limit 5)	51.7	50.0	mg/L	103	70.0 - 130	126899709

DFTPP

Parameter	*RefMass*	*Reading*	*%*	*Limits%*	*File*

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DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	627622	198	29296	51.0	40.0 - 60.0	126899708
DFTPP Mass 197	627622	198	0	0.0	0 - 1.00	126899708
DFTPP Mass 198	627622	198	57402	100.0	100 - 100	126899708
DFTPP Mass 199	627622	198	3903	6.8	5.00 - 9.00	126899708
DFTPP Mass 275	627622	198	12937	22.5	10.0 - 30.0	126899708
DFTPP Mass 365	627622	198	2108	3.7	1.00 - 100	126899708
DFTPP Mass 441	627622	443	5278	79.0	0 - 100	126899708
DFTPP Mass 442	627622	198	34016	59.3	40.0 - 100	126899708
DFTPP Mass 443	627622	442	6677	19.6	17.0 - 23.0	126899708
DFTPP Mass 51	627622	198	18649	32.5	30.0 - 60.0	126899708
DFTPP Mass 68	627622	69.0	0	0.0	0 - 2.00	126899708
DFTPP Mass 69	627622	198	20616	35.9	0 - 100	126899708
DFTPP Mass 70	627622	69.0	124	0.6	0 - 2.00	126899708

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	626418	CCV	112000	112000	55990	168000	126899709	626418
Acenaphthene-d10-ISTD	626418	CCV	195400	195400	97720	293200	126899709	626418
Naphthalene-d8-ISTD	626418	CCV	402500	402500	201300	603800	126899709	626418
Phenanthrene-d10-ISTD	626418	CCV	278800	278800	139400	418200	126899709	626418
1,4-Dichlorobenzene-d4-ISTD	1141970	Blank	61350	112000	55990	168000	126899714	1141970
Acenaphthene-d10-ISTD	1141970	Blank	105700	195400	97720	293200	126899714	1141970
Naphthalene-d8-ISTD	1141970	Blank	227300	402500	201300	603800	126899714	1141970
Phenanthrene-d10-ISTD	1141970	Blank	139900	278800	139400	418200	126899714	1141970
1,4-Dichlorobenzene-d4-ISTD	1142687	Blank	72430	112000	55990	168000	126899711	1142687
1,4-Dichlorobenzene-d4-ISTD	1142687	LCS	71500	112000	55990	168000	126899712	1142687
1,4-Dichlorobenzene-d4-ISTD	1142687	LCS Dup	68060	112000	55990	168000	126899713	1142687
Acenaphthene-d10-ISTD	1142687	Blank	124600	195400	97720	293200	126899711	1142687
Acenaphthene-d10-ISTD	1142687	LCS	128000	195400	97720	293200	126899712	1142687
Acenaphthene-d10-ISTD	1142687	LCS Dup	115300	195400	97720	293200	126899713	1142687
Naphthalene-d8-ISTD	1142687	Blank	262900	402500	201300	603800	126899711	1142687
Naphthalene-d8-ISTD	1142687	LCS	262700	402500	201300	603800	126899712	1142687
Naphthalene-d8-ISTD	1142687	LCS Dup	241500	402500	201300	603800	126899713	1142687
Phenanthrene-d10-ISTD	1142687	Blank	155400	278800	139400	418200	126899711	1142687
Phenanthrene-d10-ISTD	1142687	LCS	171700	278800	139400	418200	126899712	1142687
Phenanthrene-d10-ISTD	1142687	LCS Dup	155000	278800	139400	418200	126899713	1142687
1,4-Dichlorobenzene-d4-ISTD	2341142	MS	92310	112000	55990	168000	126899716	1142687
Acenaphthene-d10-ISTD	2341142	MS	163700	195400	97720	293200	126899716	1142687
Naphthalene-d8-ISTD	2341142	MS	337000	402500	201300	603800	126899716	1142687
Phenanthrene-d10-ISTD	2341142	MS	227100	278800	139400	418200	126899716	1142687
1,4-Dichlorobenzene-d4-ISTD	2341567	Unknown	77960	112000	55990	168000	126899717	1142687
Acenaphthene-d10-ISTD	2341567	Unknown	132000	195400	97720	293200	126899717	1142687
Naphthalene-d8-ISTD	2341567	Unknown	281600	402500	201300	603800	126899717	1142687
Phenanthrene-d10-ISTD	2341567	Unknown	160900	278800	139400	418200	126899717	1142687

QUALITY CONTROL

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IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	626418	CCV	7.150	7.150	7.090	7.210	126899709	626418
Acenaphthene-d10-ISTD	626418	CCV	13.33	13.33	13.27	13.39	126899709	626418
Naphthalene-d8-ISTD	626418	CCV	9.450	9.450	9.390	9.510	126899709	626418
Phenanthrene-d10-ISTD	626418	CCV	16.31	16.31	16.25	16.37	126899709	626418
1,4-Dichlorobenzene-d4-ISTD	1141970	Blank	7.150	7.150	7.090	7.210	126899714	1141970
Acenaphthene-d10-ISTD	1141970	Blank	13.33	13.33	13.27	13.39	126899714	1141970
Naphthalene-d8-ISTD	1141970	Blank	9.440	9.450	9.390	9.510	126899714	1141970
Phenanthrene-d10-ISTD	1141970	Blank	16.29	16.31	16.25	16.37	126899714	1141970
1,4-Dichlorobenzene-d4-ISTD	1142687	Blank	7.150	7.150	7.090	7.210	126899711	1142687
1,4-Dichlorobenzene-d4-ISTD	1142687	LCS	7.150	7.150	7.090	7.210	126899712	1142687
1,4-Dichlorobenzene-d4-ISTD	1142687	LCS Dup	7.150	7.150	7.090	7.210	126899713	1142687
Acenaphthene-d10-ISTD	1142687	Blank	13.33	13.33	13.27	13.39	126899711	1142687
Acenaphthene-d10-ISTD	1142687	LCS	13.33	13.33	13.27	13.39	126899712	1142687
Acenaphthene-d10-ISTD	1142687	LCS Dup	13.33	13.33	13.27	13.39	126899713	1142687
Naphthalene-d8-ISTD	1142687	Blank	9.440	9.450	9.390	9.510	126899711	1142687
Naphthalene-d8-ISTD	1142687	LCS	9.440	9.450	9.390	9.510	126899712	1142687
Naphthalene-d8-ISTD	1142687	LCS Dup	9.440	9.450	9.390	9.510	126899713	1142687
Phenanthrene-d10-ISTD	1142687	Blank	16.30	16.31	16.25	16.37	126899711	1142687
Phenanthrene-d10-ISTD	1142687	LCS	16.30	16.31	16.25	16.37	126899712	1142687
Phenanthrene-d10-ISTD	1142687	LCS Dup	16.30	16.31	16.25	16.37	126899713	1142687
1,4-Dichlorobenzene-d4-ISTD	2341142	MS	7.150	7.150	7.090	7.210	126899716	1142687
Acenaphthene-d10-ISTD	2341142	MS	13.33	13.33	13.27	13.39	126899716	1142687
Naphthalene-d8-ISTD	2341142	MS	9.440	9.450	9.390	9.510	126899716	1142687
Phenanthrene-d10-ISTD	2341142	MS	16.30	16.31	16.25	16.37	126899716	1142687
1,4-Dichlorobenzene-d4-ISTD	2341567	Unknown	7.150	7.150	7.090	7.210	126899717	1142687
Acenaphthene-d10-ISTD	2341567	Unknown	13.33	13.33	13.27	13.39	126899717	1142687
Naphthalene-d8-ISTD	2341567	Unknown	9.440	9.450	9.390	9.510	126899717	1142687
Phenanthrene-d10-ISTD	2341567	Unknown	16.30	16.31	16.25	16.37	126899717	1142687

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	1142687	0.0176	0.0176	0.025	39.3 - 111	70.4	70.4	mg/L	0	30.0
TCLP 2,4,6-Trichlorophenol	1142687	0.0177	0.0178	0.025	38.2 - 109	70.8	71.2	mg/L	0.563	30.0
TCLP 2,4-Dinitrotoluene	1142687	0.0197	0.0196	0.025	36.3 - 132	78.8	78.4	mg/L	0.509	30.0
TCLP 2-Methylphenol (o-Cresol)	1142687	0.0144	0.0136	0.025	23.0 - 87.8	57.6	54.4	mg/L	5.71	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1142687	0.0126	0.0119	0.025	14.9 - 92.5	50.4	47.6	mg/L	5.71	30.0
TCLP Hexachlorobenzene	1142687	0.0187	0.020	0.025	44.4 - 117	74.8	80.0	mg/L	6.72	30.0
TCLP Hexachlorobutadiene	1142687	0.0121	0.0109	0.025	17.2 - 88.9	48.4	43.6	mg/L	10.4	30.0
TCLP Hexachloroethane	1142687	0.0131	0.0115	0.025	14.6 - 88.8	52.4	46.0	mg/L	13.0	30.0
TCLP Nitrobenzene	1142687	0.0198	0.019	0.025	34.3 - 113	79.2	76.0	mg/L	4.12	30.0
TCLP Pentachlorophenol	1142687	0.0144	0.0152	0.025	15.7 - 129	57.6	60.8	mg/L	5.41	30.0
TCLP Pyridine (Reg. Limit 5)	1142687	0.00748	0.00727	0.025	0.0753 - 83.4	29.9	29.1	mg/L	2.71	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*

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QUALITY CONTROL

BAS1-C

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MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	2341142	0.200	0	0.0088	0.250	33.7 - 116	76.5		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2341142	0.195	0	0.0088	0.250	20.1 - 131	74.5		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2341142	0.209	0	0.0088	0.250	31.8 - 135	80.1		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2341142	0.158	0	0.0088	0.250	10.6 - 106	59.7		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2341142	0.139	0	0.0088	0.250	0.100 - 149	52.1		mg/L		30.0
TCLP Hexachlorobenzene	2341142	0.199	0	0.0088	0.250	35.9 - 125	76.1		mg/L		30.0
TCLP Hexachlorobutadiene	2341142	0.132	0	0.0088	0.250	11.1 - 88.5	49.3		mg/L		30.0
TCLP Hexachloroethane	2341142	0.147	0	0.0088	0.250	8.41 - 88.1	55.3		mg/L		30.0
TCLP Nitrobenzene	2341142	0.207	0	0.0088	0.250	28.7 - 119	79.3		mg/L		30.0
TCLP Pentachlorophenol	2341142	0.169	0	0.0088	0.250	8.33 - 141	64.1		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2341142	0.104	0	0.0088	0.250	0.100 - 97.2	38.1		mg/L		30.0

SPCC

Parameter	*Sample*	*RF*	*Minimum*	*File*
TCLP 2,4-Dinitrophenol	626418	37.2	0.050	126899709
TCLP 4-Nitrophenol	626418	47.2	0.050	126899709
TCLP Hexachlorocyclopentadiene	626418	40.6	0.050	126899709
TCLP N-Nitroso-n-propylamine	626418	48.0	0.050	126899709

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	626418	CCV	42.1	100	mg/L	42.1	9.79 - 123	126899709
2-Fluorobiphenyl-SURR	626418	CCV	50.3	50.0	mg/L	101	0.100 - 131	126899709
2-Fluorophenol-SURR	626418	CCV	49.0	100	mg/L	49.0	5.36 - 80.2	126899709
4-Terphenyl-d14-SURR	626418	CCV	39.9	50.0	mg/L	79.8	0.100 - 137	126899709
Nitrobenzene-d5-SURR	626418	CCV	50.7	50.0	mg/L	101	0.100 - 131	126899709
Phenol-d6-SURR	626418	CCV	47.4	100	mg/L	47.4	0.100 - 66.5	126899709
2,4,6-Tribromophenol	1141970	Blank	1.42	3.33	mg/L	42.6	9.79 - 123	126899714
2-Fluorobiphenyl-SURR	1141970	Blank	34.3	50.0	mg/L	68.6	0.100 - 131	126899714
2-Fluorophenol-SURR	1141970	Blank	39.6	100	mg/L	39.6	5.36 - 80.2	126899714
4-Terphenyl-d14-SURR	1141970	Blank	30.3	50.0	mg/L	60.6	0.100 - 137	126899714
Nitrobenzene-d5-SURR	1141970	Blank	34.2	50.0	mg/L	68.4	0.100 - 131	126899714
Phenol-d6-SURR	1141970	Blank	28.2	100	mg/L	28.2	0.100 - 66.5	126899714
2,4,6-Tribromophenol	1142687	Blank	1.56	3.33	mg/L	46.8	9.79 - 123	126899711
2,4,6-Tribromophenol	1142687	LCS	1.85	3.33	mg/L	55.6	9.79 - 123	126899712
2,4,6-Tribromophenol	1142687	LCS Dup	1.85	3.33	mg/L	55.6	9.79 - 123	126899713
2-Fluorobiphenyl-SURR	1142687	Blank	37.1	50.0	mg/L	74.2	0.100 - 131	126899711
2-Fluorobiphenyl-SURR	1142687	LCS	35.0	50.0	mg/L	70.0	0.100 - 131	126899712
2-Fluorobiphenyl-SURR	1142687	LCS Dup	35.0	50.0	mg/L	70.0	0.100 - 131	126899713
2-Fluorophenol-SURR	1142687	Blank	43.7	100	mg/L	43.7	5.36 - 80.2	126899711
2-Fluorophenol-SURR	1142687	LCS	44.4	100	mg/L	44.4	5.36 - 80.2	126899712
2-Fluorophenol-SURR	1142687	LCS Dup	40.1	100	mg/L	40.1	5.36 - 80.2	126899713
4-Terphenyl-d14-SURR	1142687	Blank	32.1	50.0	mg/L	64.2	0.100 - 137	126899711
4-Terphenyl-d14-SURR	1142687	LCS	29.3	50.0	mg/L	58.6	0.100 - 137	126899712
4-Terphenyl-d14-SURR	1142687	LCS Dup	31.2	50.0	mg/L	62.4	0.100 - 137	126899713

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1120898

Printed 10/17/2024

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Nitrobenzene-d5-SURR	1142687	Blank	37.0	50.0	mg/L	74.0	0.100 - 131	126899711
Nitrobenzene-d5-SURR	1142687	LCS	38.3	50.0	mg/L	76.6	0.100 - 131	126899712
Nitrobenzene-d5-SURR	1142687	LCS Dup	36.9	50.0	mg/L	73.8	0.100 - 131	126899713
Phenol-d6-SURR	1142687	Blank	30.9	100	mg/L	30.9	0.100 - 66.5	126899711
Phenol-d6-SURR	1142687	LCS	30.9	100	mg/L	30.9	0.100 - 66.5	126899712
Phenol-d6-SURR	1142687	LCS Dup	28.6	100	mg/L	28.6	0.100 - 66.5	126899713
2,4,6-Tribromophenol	2341142	MS	0.598	1.00	mg/L	59.8	9.79 - 123	126899716
2-Fluorobiphenyl-SURR	2341142	MS	0.372	0.500	mg/L	74.4	0.100 - 131	126899716
2-Fluorophenol-SURR	2341142	MS	0.473	1.00	mg/L	47.3	5.36 - 80.2	126899716
4-Terphenyl-d14-SURR	2341142	MS	0.320	0.500	mg/L	64.0	0.100 - 137	126899716
Nitrobenzene-d5-SURR	2341142	MS	0.398	0.500	mg/L	79.6	0.100 - 131	126899716
Phenol-d6-SURR	2341142	MS	0.339	1.00	mg/L	33.9	0.100 - 66.5	126899716
2,4,6-Tribromophenol	2341567	Unknown	0.448	1.00	mg/L	44.8	9.79 - 123	126899717
2-Fluorobiphenyl-SURR	2341567	Unknown	0.359	0.500	mg/L	71.8	0.100 - 131	126899717
2-Fluorophenol-SURR	2341567	Unknown	0.403	1.00	mg/L	40.3	5.36 - 80.2	126899717
4-Terphenyl-d14-SURR	2341567	Unknown	0.316	0.500	mg/L	63.2	0.100 - 137	126899717
Nitrobenzene-d5-SURR	2341567	Unknown	0.366	0.500	mg/L	73.2	0.100 - 131	126899717
Phenol-d6-SURR	2341567	Unknown	0.304	1.00	mg/L	30.4	0.100 - 66.5	126899717

* 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); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); 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.); LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.); 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); DFTPP - GC/MS Tuning Compound

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

CHAIN OF CUSTODY

Printed 09/ /2024 Page 1 of 1

Lab Number 23 11563

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
122

PO Number

Phone 512/332 8964

Sampling / Transport

☐ Hand Delivered by Client to Region or LAB

West Plant

Matrix: Non-Potable Water

Sample Collection Start

Date: 10/8/24 Time: 1200

Sampler Printed Name: Willim Ward

Sampler Affiliation: SPL

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 Z -- No bottle required

PU65 Pickup Transportation

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
		Printed Name / Affiliation	William Ward - SPL, Inc.	Printed Name / Affiliation	FedEx
10/8/24	1700	Signature		Signature	
		Printed Name / Affiliation	FedEx	Printed Name / Affiliation	J. Johnigan - SPL, Inc.
10/9/24	1000	Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
		Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
		Signature		Signature	

Sample Received on Ice? ☐ Yes ☐ No

Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

The lab validated column designates lab validation by A - ELAP, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP#000023

Comments

CHAIN OF CUSTODY

BASI-C
139

3600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax. 903-984-5914

CHAIN OF CUSTODY

Printed 0 09/2024 Page 1 of 2

Lab Number 2: 41564

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
148

PO Number

Phone 512/332-8961

Effluent Biweekly WEST

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start
Date: 10/7/24 Time: 1000
Sampler Printed Name: Adam Jordy
Sampler Affiliation: City of Bastrop
Sampler Signature:

Sample Collection Stop
Date: 10/8/24 Time: 1000
Sampler Printed Name: Adam Jordy
Sampler Affiliation: City of Bastrop
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Polyethylene 1/2 gal (White)

NELAC Short Hold	BODc	BOD Carbonaceous	SM 5210 B-2016 (TCMP Initial) (2 04 days)
NELAC	TSS	Total Suspended Solids	SM 2540 D-2015 (7.00 day

1 H2SO4 to pH <2 250 ml Polyethylene

NELAC	NH3N	Ammonia Nitrogen	EPA 350.1 2 (28 0 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
		Printed Name / Affiliation		Printed Name / Affiliation	
10/8/24	1200	Adam Jordy		Williams Cruz SPL	
		Signature		Signature	
10/8/24	(700)	Printed Name / Affiliation		Printed Name / Affiliation	
		Williams Cruz SPL		FedEx	
		Signature		Signature	
10/9/24	1020	Printed Name / Affiliation		Printed Name / Affiliation	
		FedEx		Dolonigan - SPL, Inc.	
		Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
		Signature		Signature	

1120898 CoC Print Group 001 of 001

CHAIN OF CUSTODY

City of Bastrop
Curtis Hancock
1311 Chestnut St
Bastrop, TX 78602-0427

BAS1 -C
120

Lab Number 23C 1567

PO Number

Annual Sludge - TCLP + PCB 5 D

RUSH 5 Day

PLANT ID - West Plant
Matrix Solid & Chemical Materials

Sample Collection Start
Date: 10-8-24 Time: 8:26AM
Sampler Printed Name: Tommy Dorn
Sampler Affiliation: COB
Sampler Signature:

2 Glass Qt w/Teflon lined lid

	Ag	TCLP Silver	EPA 6010B CAS 7440-22-4 (14 days)
	As	TCLP Arsenic	EPA 6010B CAS 7440-38-2 (14 days)
	Ba	TCLP Barium	EPA 6010B CAS 7440-39-3 (14 days)
	Cd	TCLP Cadmium	EPA 6010B CAS 7440-43-9 (14 days)
	Cr	TCLP Chromium	EPA 6010B CAS 7440-47-3 (14 days)
	Hg	TCLP Mercury	EPA 7470A CAS 7439-97-6 (14 days)
	Pb	TCLP Lead	EPA 6010B CAS 7439-92-1 (14 days)
	Se	TCLP Selenium	EPA 6010B CAS 7782-49-2 (14 days)
	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14 days)
	TABN	MS TCLP Semivolatile Analytes	EPA 8270C (7 days)
	TG50	GC TCLP Herbicide	EPA 8151A (7 days)
	TO80	GC TCLP Pesticide	EPA 8081A (7 days)
	TVOA	MS TCLP Volatile Analytes	EPA 8260B (14 days)
	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14 days)

1 Glass 4 oz w/Teflon lined lid

	PCB	Polychlorinated Biphenyls	EPA 8082 (7 days)

General TX Region 8 [illegible] Jones Rd., San Antonio TX 78254

CHAIN OF CUSTODY

City of Bastrop
Curtis Hancock
2311 Chestnut St.
Bastrop, TX 78602 0427

BAS1 -C
120

TS% Total Solids for Dry Wt Corrects SM2540G-1997 Mod

0 Z -- No bottle required

ARDW As Received to Dry Weight Basis Calculation

Date	Time	Relinquished	Received	1200
10-7-24	8:30AM	Tommy Day CCB	William [illegible] SPC	
10/4/24	1000	FedEx	J. Johnigan - SPC, Inc.	

Sample Received on Ice?
Cooler/Sample Sealed?

If Shipped Tracking Number & Temp. See Attached

Comments

1120898 CoC Print Group 001 of 001

ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8111 CAMERON RD
SUITE 9-2
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 18OCT24
ACTWGT: 75.00 LB
CAD: 104358/INET4536
DIMS: 24x14x14 IN

BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

KILGORE TX 75662
(903) 984-0551
INV:
PO:

REF:
DEPT:

FedEx Express

THU - 10 OCT 5:00P
STANDARD OVERNIGHT

7790 2288 6299

75662
TX-US SHV

AH GGGA

10/9 1030 HJ
Date Time Tech
Temp 21 1122 C

Therm#: 8443 Corr Fact: 0.1 C

CONSIGNEE COPY - PLEA
PLACE IN FRONT OF POUCH

Report Page 33 of 33

Martinez II Wastewater Discharge Permit Renewal 01/2025
TPDES No. 10749-004 (EPA I.D. TX0095583)

Attachment 9B

Copy of Label

Reference: Sewage Sludge Technical Report 3.0

Item E

Garden-Ville
ORGANIC SPECIALIST SINCE 1957

ELITE LAWN

FLOWER & VEGETABLE GARDENS
TREES & SHRUBS
LAWNS

ENRICHES, RECHARGES

An aged, nitrogen-rich compost derived from plant material and biosolids which promotes plant and soil health.

INGREDIENTS.
Shredded Native Plants, Plant Material, Class A Biosolids.

APPLICATION
GARDEN BEDS.
Spread 2 to 3 inches over the entire area to be planted. Work to a depth of 6 to 8 inches. Water thoroughly.
LAWNS
Existing Lawns: Spread 1/4 to 1/2 inch over entire existing lawn, applying evenly. Water thoroughly.
New Lawns: Spread 1 to 2 inches over lawn area, applying evenly. Work into existing soil. Lay sod or sow seeds and water thoroughly.

INGREDIENTES
Virutas de madera, Material vegetal, Biosólidos clase A.

APLICACIÓN:
JARDINES
Desparrame 2 a 3 pulgadas sobre toda el area. Trabaje una profundidad de 6 a 8 pulgadas y riegue a fondo.
CÉSPEDES
Céspedes existentes: Desparrame desde 1/4 a 1/2 pulgada sobre el césped aplicando de manera uniforme. Riegue a fondo.
Céspedes nuevo: Desparrame de 1 a 2 pulgadas en al area del césped aplicando de manera uniforme. Trabajar en el suelo existente.

Look for our other great Garden-Ville products at www.garden-ville.com or ask for it by name at your local nursery or home and garden center.

Manufactured by Garden-Ville, a division of TLM, L.L.C.
PO Box 17247 Austin, Texas 78760 | 888-828-7238
Product Warranty Information: All goods sold by Garden-Ville are sold "as is" without any express or implied warranty. In no event will Garden-Ville be liable for any consequential damages. Customer's sole and exclusive remedy is hereby limited to replacement of non-conforming goods or refund of purchase prices at the option of Garden-Ville.
Packaging Warning: Keep bags covered! Do not store this package in direct sunlight for prolonged periods of time. All warranties are void if package is stored more than 60 days.
Any questions regarding this product or its ingredients, please contact Garden-Ville.

Net Contents
1 cu ft (28 L)

Garden-Ville ELITE LAWN
ORGANIC SPECIALIST SINCE 1957

Garden-Ville ELITE LAWN
ORGANIC SPECIALIST SINCE 1957

Water Balance

This application is for a renewal, water balance is not required for a renewal.

Rainee Trevino

From: Daniel Flores <danielf@sariverauthority.org>
Sent: Tuesday, February 4, 2025 3:32 PM
To: Rainee Trevino; Leamon Anderson
Cc: Ernest Munoz; Katherine Overstreet
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010749004- Notice of Deficiency Letter
Attachments: wq0010749004-nod1.pdf; Revised_Martinez II_Domestic Technical Report 1.0.pdf; Municipal Discharge Renewal Spanish NORI.docx

Categories: NOD Response Review

Rainee,

In response to your notice of deficiency dated January 29, 2025 (attached), please see below:

Item # 1 – The correct address for the public viewing is 1720 Farm-to-Market Road 1516 North, Converse, Texas 78109.

Item #2 - Please see the attached revised portion of Technical Report 1.0

Item #3 – After reviewing the portion of the NORI, I found that the location of the plant (second sentence) should read

" located at 1720 Farm-to-Market Road 1516 North, Converse" instead of
"located at 1720 Farm-to-Market Road 1516 North, near the city of Converse"

Item #4 – Please see the attached translated Spanish NORI.
The location of the plant was translated using 1720 Farm-to-Market Road 1516 North, Converse

Thank You,

Daniel Flores
Superintendent, Quality Control
San Antonio River Authority
1720 FM 1516 N
Converse, TX 78109
(210) 302-4219 ph
(210) 661-9324 fx
danielf@sariverauthority.org

SAN ANTONIO RIVER AUTHORITY

Please consider the environment before printing this email.

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Wednesday, January 29, 2025 5:06 PM
To: Leamon Anderson <landerson@sariverauthority.org>
Cc: Daniel Flores <danielf@sariverauthority.org>
Subject: [EXTERNAL] Application to Renew Permit No. WQ0010749004- Notice of Deficiency Letter

External Email: Beware of links/attachments.

Dear Mr. Anderson,

The attached Notice of Deficiency letter sent on January 29, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by February 12, 2025.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

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): 3.5

2-Hr Peak Flow (MGD): 8.75

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): 3.5

2-Hr Peak Flow (MGD): 8.75

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 04/19/2013

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

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. WQ0010749004

SOLICITUD. 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) para renovar el Permiso No. WQ0010749004 (EPA I.D. No. TX 0095583) 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 3,500,000 galones por día. La planta está ubicada en 1720 Farm-to-Market Road 1516 North, Converse, en el Condado de Bexar, Texas 78109. La ruta de descarga es del sitio de la planta a Martinez Creek; después a Lower Cibolo Creek. La TCEQ recibió esta solicitud el 23 de enero del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en 1720 Farm-to-Market Road 1516 North, Converse, Texas 78109, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.317959,29.437841&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 Daniel Flores, Quality Control Superintendent al 210-302-4200.

Fecha de emission:

TPDES PERMIT NO.
WQ0010749004
[For TCEQ office use only - EPA I.D. No. TX0095583]

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

This is a renewal that replaces TPDES Permit No. WQ0010749004 issued on July 31, 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 Martinez II Wastewater Treatment Facility, SIC Code 4952

located at 1720 Farm-to-Market Road 1516 North, in Bexar County, Texas 78109

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 the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 3.5 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,076 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (292)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (438)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (88)	6	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

	7-day Minimum	30-day Average	Measurement Frequency	Sample Type
Sublethal Whole Effluent Toxicity (WET) limit 81% (Parameter 51714)				
Pimephales promelas (7-day chronic NOEC [1])	81%	81%	1/quarter	Composite

[1] The NOEC is here defined as the greatest effluent dilution at which no significant effect is demonstrated. A significant effect is defined as a statistically significant difference between a specified effluent dilution and the control for that endpoint.

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 Compliance

Monitoring Team of the Enforcement Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the 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 authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply Class B biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 13) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224) by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

d. Three alternatives are available to demonstrate compliance with Class B biosolids

criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

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

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

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

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

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

Alternative 9 -

i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

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

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

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

Pollutant	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

    a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

    b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

    c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

    a. The location, by street address, and specific latitude and longitude, of each land application site.

    b. The approximate time period bulk biosolids will be applied to the site.

    c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

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

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

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

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

SECTION IV. REQUIREMENTS FOR MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS.

A. General Requirements

All biosolids, derived materials or materials sold or given away in bulk, bag or a container for application to the land shall meet the metal concentrations in Section II.A. Table 3, the pathogen requirements in 30 TAC §312.82, and the vector attraction reduction requirements in 30 TAC §312.83(b)(1) - §312.83(b)(8).

The product of the concentration of each pollutant in the biosolids and the annual whole application rate for biosolids shall not cause the annual metal loading rate for the metal in Table 4 below to be exceeded. The procedure used to determine the annual whole application rate is presented in §312.49.

Table 4 - ANNUAL METAL LOADING RATES

Pollutant	Annual Metal Loading Rate ** (pounds per acre) *
Arsenic	1.8
Cadmium	1.7
Chromium	134.0
Copper	67.0
Lead	13.0
Mercury	0.76
Molybdenum	Report Only
Nickel	18.7
Selenium	4.5
Zinc	125.0

* Dry weight basis
** Per 365-day period

B. Marketing and Distribution Management Practices

1. Biosolids may be stockpiled and stored on site under semi-dry conditions for a period not to exceed 24 months.

2. The whole biosolids application rate shall not exceed the agronomic rate for any site.

3. The biosolids processing site location shall be selected and operated in a manner to prevent public health nuisances. Where nuisance conditions exist, the operator shall take necessary action to abate such nuisances.

4. Either a label shall be affixed to the bag or similar enclosure in which biosolids are sold or given away for application to the land or an information sheet shall be provided to the person who receives biosolids sold or given away in a similar enclosure for application to the land. The label or information sheet shall contain the following information:

   a. the name and address of the person who prepared the biosolids for sale or give away in a bag or similar enclosure for application to the land;
   b. a statement that prohibits the application of the biosolids to the land except in accordance with the instructions on the label or information sheet;
   c. the annual whole sludge application rate for the biosolids that does not cause the

annual metal loading rates in Table 4 to be exceeded.

5. If composting, the Biosolids Processing Pad Area shall be protected from storm water run-on and runoff. The Biosolids Processing Pad shall be constructed of concrete or Executive Director approved material meeting the following requirements:

   a. More than 30% passing a No. 200 mesh sieve
   b. Liquid limit greater than 30%
   c. Plasticity index greater than 15
   d. A minimum thickness of 2 feet
   e. Permeability equal to or less than 1x10-7 cm/sec
   f. Soil compaction will be 95% standard proctor at optimum moisture content

   The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed lining meets the appropriate criteria above prior to utilization of the facilities. The certification shall be sent to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

   Storm water from the pad shall be routed to a detention pond then used as irrigation, dust control, and other daily operations". The Compost Facility detention pond was designed to be maintained to provide sufficient storage to contain the entire runoff volumes from the 25-year, 24-hour event without discharge."

6. This permit does not authorize the composting of grease or grease trap waste. Any such authorization shall be in accordance with Commission regulations in 30 TAC Chapter 332.

7. The following is a list of site management restrictions for Class A and Class AB bulk biosolids agricultural land, forest, or a reclamation sites:

   a. A bulk biosolids agricultural land, forest, or a reclamation site may not be applied during rainstorms or during periods in which surface soils are water-saturated, and when pooling of water is evident on the land application site.

   b. The operator shall manage a bulk biosolids agricultural land, forest, or a reclamation site according to the Adverse Weather and Alternative Plan. This plan details procedures to address times when the bulk biosolids cannot be applied to the land application site due to adverse weather or other conditions such as wind, precipitation, field preparation delays, and access road limitations.

   c. A bulk biosolids agricultural land, forest, or a reclamation site location must be selected and operated in a manner to prevent public health nuisances.

   d. An operator of a bulk biosolids agricultural land, forest, or a reclamation site may not accept bulk biosolids, unless the biosolids are transported to the land application unit in a covered container with the covering firmly secured at the front and back.

   e. If the bulk biosolids are Class AB as per the pathogen reduction alternatives in 30 TAC §312.82(a)(2), then the management practices under 30 TAC §312.44 shall be met in addition to the section V.B.7 (a-d) of this permit.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test - Once/Year

PCBs	-	Once/Year

All metal constituents, pathogen density requirements and vector attraction reduction requirements shall be monitored at the appropriate frequency pursuant to 30 TAC §312.46(a)(1).

D. Notification Requirements

The permittee shall inform TCEQ through a letter whenever the biosolids are given to a new bulk biosolids agricultural land, forest, or a reclamation site recipient directly by the generator. The notification letter shall include:

1. The recipient's name, address, phone number, the longitude and latitude of the site, and the number of acres the intended to be used.

2. If Class AB, a site map showing the buffer zone areas required under §312.44(c)(2)(D) and (E)

3. Authorization number and biosolids source name.

4. Must be signed and dated by the responsible person.

5. Complete name and title, telephone number and the address of the person signing the letter.

E. Recordkeeping Requirements

The person who prepares bulk biosolids in 30 TAC §312.41(b)(1) or in 30 TAC §312.41(e) shall develop the following information and shall retain the information on-site for <u>five years</u>.

1. The concentration (mg/kg) in the biosolids of each pollutant listed in Section II. A. (30 TAC §312.43(b)(3) Table 3).

2. A description of how the pathogen reduction requirements are met.

3. A description of how the vector attraction reduction requirements are met.

4. The annual whole application rate for the biosolids that does not cause the annual pollutant loading rates in Table 4 to be exceeded.

5. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

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

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224) by September 30th of each year the following information:

1. Results of tests performed for pollutants found in 30 TAC §312.43(b)(3) Table 3.
2. The frequency of monitoring listed in Section I.C. which applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. PCB concentration in sludge in mg/kg.
5. Documentation of the level of pathogen reduction achieved.
6. As listed in Section I.B.3.(a), describe how the pathogen reduction requirements were met.
7. Vector attraction reduction alternative used as listed in Section I.B.4.
8. Annual biosolids production in dry tons/year.
9. Amount of biosolids land applied in dry tons/year.
10. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment." The certification statement shall be attached to the annual reporting form.

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 V. REQUIREMENTS APPLYING TO SLUDGE TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge that is transported to another wastewater treatment facility or facility that further processes sludge. These provisions are intended to allow transport of sludge to facilities that have been authorized to accept sludge. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge, 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 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 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 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.

2. For sludge 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 transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 13) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge 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 production;

3. the amount of sludge 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. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.

4. 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.

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 once per quarter.

      The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 26%, 34%, 45%, 60%, and 81% effluent. The critical dilution, defined as 81% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity to the water flea. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

   e. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

f. At the permit issue date, the sublethal No Observed Effect Concentration (NOEC) effluent limitation of not less than 81% for the fathead minnow is effective (see the EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS section).

g. At the permit issue date, if a fathead minnow test fails to pass the sublethal endpoint at the 81% effluent concentration, the testing frequency will increase to monthly until such time compliance with the NOEC effluent limitation is demonstrated for a period of three consecutive months, at which time the quarterly testing frequency may be resumed.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding

time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "0."

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "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 water flea 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."

e. The permittee shall report the WET values for the 30-day average and the 7-day minimum under Parameter No. 51714 for the appropriate reporting period for the fathead minnow. If more than one valid test was performed during the reporting period, the NOECs will be averaged arithmetically and reported as the daily average NOEC. The data submitted should reflect the lowest toxicity (lethality or sublethality, whichever is lower) values during the reporting period.

4. Persistent Toxicity

The requirements of this Part apply only to the water flea and only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in reproduction at the critical dilution when compared to the reproduction in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test

completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Toxicity Identification Evaluation: Characterization of

Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM:_____ _ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	26%	34%	45%	60%	81%
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 (81%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	26%	34%	45%	60%	81%
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 (81%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
26%							
34%							
45%							
60%							
81%							
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 (81%): _____ 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%									
26%									
34%									
45%									
60%									
81%									

* Coefficient of Variation = standard deviation x 100/mean

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (81%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

   a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

   b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

      1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

      2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

      A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

   d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

   a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

   b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”

2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean

survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity

characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant

and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent

toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

   The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010749004, EPA I.D. No. TX0095583, 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: Sonia Bhuiya
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-1205

Date: August 1, 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 3.5 million gallons per day (MGD). The existing wastewater treatment facility serves portions of East Bexar County.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 1720 Farm-to-Market Road 1516 North, in Bexar County, Texas 78109.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.436203 N	98.318751 W

The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are intermediate aquatic life use for Martinez Creek upstream of Escondido Creek confluence and high aquatic life use for Martinez Creek downstream of Escondido Creek confluence. 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 Martinez II Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include screw pumps, step screens, grit chambers, aeration basins (carrousel type), final clarifiers, sludge belt filter press and a ultraviolet light (UV) disinfection system. 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 Martinez II WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period December 2019 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	2.48
$CBOD_5$, mg/l	2.6
TSS, mg/l	2.4
NH_3-N, mg/l	0.90
E. coli, CFU or MPN per 100 ml	2.0

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 3.5 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,076 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	292	15	25
TSS	15	438	25	40
NH_3-N	3	88	6	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

	Daily Average	Daily Max
Sublethal Whole Effluent Toxicity (WET) limit 81% (Parameter 51714)		
Pimephales promelas (7-days chronic NOEC[1])	81%	81%

[1] The NOEC is here defined as the greatest effluent dilution at which no significant effect is demonstrated. A significant effect is defined as a statistically significant difference between a specified effluent dilution and the control for that endpoint.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
DO	Two/week
E. coli	Daily
Sublethal WET Limits	One/quarter

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. 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.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of

Pollution" *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 26%, 34%, 45%, 60%, and 81%. The low-flow effluent concentration (critical dilution) is defined as 81% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

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.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

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

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

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Martinez Creek, thence to Lower Cibolo Creek in Segment No. 1902 of the San Antonio River Basin. The unclassified receiving water uses are intermediate aquatic life use for Martinez Creek upstream of Escondido Creek confluence and high aquatic life use for Martinez Creek downstream of Escondido Creek confluence. 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.

No priority watershed of critical concern has been identified in Segment 1902. However, the Peck's cave amphipod (*Stygobromus pecki*), Comal Springs dryopid beetle (*Stygoparnus comalensis*), and San Marcos salamander (Eurycea nana) can occur in Bexar County. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only consider 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 permit does not require EPA review with respect to the presence of endangered or

Segment No. 1902 is currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA § 303(d) list). The listing is for bacteria throughout the entire segment (Assessment Unit [AU] 1902_01-05). 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). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment

of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been added to the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 645 mg/l total dissolved solids (TDS), 132 mg/l sulfate, and 98 mg/l chloride present in the effluent. The segment criteria for Segment No. 1902 are 900 mg/l for TDS, mg/l for 275 sulfate, and 170 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

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

(2) CONVENTIONAL PARAMETERS

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

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are contained in the approved WQMP.

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

(3) COASTAL MANAGEMENT PLAN

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

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

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

standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Martinez Creek. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Martinez Creek.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 3.5 MGD and the 7-day, 2-year (7Q2) flow of 1.30 cfs for Martinez Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 3.5 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	94.34%	Chronic Effluent %:	80.64%

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* (IP). The segment values are 98 mg/l for hardness (as calcium carbonate), 269 mg/l chlorides, 7.7 standard units for pH, and 6.0 mg/l for TSS. For additional details on the calculation of water quality-based effluent

limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting 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 at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 3.5 MGD and the harmonic mean flow of 2.0 cfs for Martinez Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 73.03%

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 three years, the permittee has performed six chronic water flea tests, with zero demonstrations of significant toxicity (i.e., zero failures).

The sublethal WET limit is retained for the fathead minnow. Therefore, no RP determination was performed for this test species. No WET limit violations.

A reasonable potential (PR) determination was performed for the water flea 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. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

(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.

With zero failures, a determination of no RP was made. Additional WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant lethality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the

application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010749004 issued on July 31, 2020.

B. APPLICATION

Application received on January 23, 2025, and additional information received on February 12, 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 3 - Discharge to a Perennial Stream or River

Applicant Name:	**San Antonio River Authority**
Permit Number, Outfall:	**10749004, Outfall 001**
Segment Number:	**1902 - Lower Cibolo Creek**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**3.5**	MGD	
QS - Perennial stream harmonic mean flow	**2.40**	cfs	Critical conditions memo
QE - Average effluent flow	**5.4153**	cfs	Calculated
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	**548**	mg/L	Permit application
CE - chloride - average effluent concentration	**133**	mg/L	Permit application
CE - sulfate - average effluent concentration	**79**	mg/L	Permit application

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	1013.01
Calculate the LTA	LTA = WLA * 0.93	942.10
Calculate the daily average	Daily Avg. = LTA * 1.47	**1384.89**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**2929.94**
Calculate 70% of the daily average	70% of Daily Avg. =	969.42
Calculate 85% of the daily average	85% of Daily Avg. =	1177.16

No permit limitations needed if:	**548**	**≤**	**969.42**		
Reporting needed if:	**548**	**>**	**969.42**	**but ≤**	**1177.16**
Permit limits may be needed if:	**548**	**>**	**1177.16**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	201.91
Calculate the LTA	LTA = WLA * 0.93	187.78
Calculate the daily average	Daily Avg. = LTA * 1.47	**276.03**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**583.98**
Calculate 70% of the daily average	70% of Daily Avg. =	193.22
Calculate 85% of the daily average	85% of Daily Avg. =	234.63

No permit limitations needed if:	**133**	**≤**	**193.22**		
Reporting needed if:	**133**	**>**	**193.22**	**but ≤**	**234.63**
Permit limits may be needed if:	**133**	**>**	**234.63**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	338.38
Calculate the LTA	LTA = WLA * 0.93	314.69
Calculate the daily average	Daily Avg. = LTA * 1.47	**462.59**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**978.68**
Calculate 70% of the daily average	70% of Daily Avg. =	323.82
Calculate 85% of the daily average	85% of Daily Avg. =	393.20

No permit limitations needed if:	**79**	**≤**	**323.82**		
Reporting needed if:	**79**	**>**	**323.82**	**but ≤**	**393.20**
Permit limits may be needed if:	**79**	**>**	**393.20**		

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	San Antonio River Authority
TPDES Permit No.:	WQ0010749004
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	August 1, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Martinez II
Segment No.:	1902
TSS (mg/L):	6
pH (Standard Units):	7.7
Hardness (mg/L as $CaCO_3$):	269
Chloride (mg/L):	98
Effluent Flow for Aquatic Life (MGD):	3.5
Critical Low Flow [7Q2] (cfs):	1.3
% Effluent for Chronic Aquatic Life (Mixing Zone):	80.64
% Effluent for Acute Aquatic Life (ZID):	94.34
Effluent Flow for Human Health (MGD):	3.5
Harmonic Mean Flow (cfs):	2
% Effluent for Human Health:	73.03
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

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

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.18	N/A	1.82	N/A	2.67	5.66
Aluminum	991	N/A	1050	N/A	602	N/A	884	1871
Arsenic	340	150	640	330	367	254	374	791
Cadmium	22.4	0.489	98.8	2.52	56.6	1.94	2.84	6.02
Carbaryl	2.0	N/A	2.12	N/A	1.21	N/A	1.78	3.77
Chlordane	2.4	0.004	2.54	0.00496	1.46	0.00382	0.00561	0.0118
Chlorpyrifos	0.083	0.041	0.0880	0.0508	0.0504	0.0391	0.0575	0.121
Chromium (trivalent)	1281	167	6457	983	3700	757	1112	2352
Chromium (hexavalent)	15.7	10.6	16.6	13.1	9.54	10.1	14.0	29.6
Copper	36.1	22.1	102	73.0	58.5	56.2	82.6	174
Cyanide (free)	45.8	10.7	48.5	13.3	27.8	10.2	15.0	31.7
4,4'-DDT	1.1	0.001	1.17	0.00124	0.668	0.000955	0.00140	0.00296
Demeton	N/A	0.1	N/A	0.124	N/A	0.0955	0.140	0.296
Diazinon	0.17	0.17	0.180	0.211	0.103	0.162	0.151	0.321
Dicofol [Kelthane]	59.3	19.8	62.9	24.6	36.0	18.9	27.7	58.7
Dieldrin	0.24	0.002	0.254	0.00248	0.146	0.00191	0.00280	0.00593
Diuron	210	70	223	86.8	128	66.8	98.2	207
Endosulfan I (*alpha*)	0.22	0.056	0.233	0.0694	0.134	0.0535	0.0786	0.166
Endosulfan II (*beta*)	0.22	0.056	0.233	0.0694	0.134	0.0535	0.0786	0.166
Endosulfan sulfate	0.22	0.056	0.233	0.0694	0.134	0.0535	0.0786	0.166
Endrin	0.086	0.002	0.0912	0.00248	0.0522	0.00191	0.00280	0.00593
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0124	N/A	0.00955	0.0140	0.0296
Heptachlor	0.52	0.004	0.551	0.00496	0.316	0.00382	0.00561	0.0118
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.19	0.0992	0.684	0.0764	0.112	0.237
Lead	186	7.25	993	45.3	569	34.9	51.2	108
Malathion	N/A	0.01	N/A	0.0124	N/A	0.00955	0.0140	0.0296
Mercury	2.4	1.3	2.54	1.61	1.46	1.24	1.82	3.86
Methoxychlor	N/A	0.03	N/A	0.0372	N/A	0.0286	0.0421	0.0890
Mirex	N/A	0.001	N/A	0.00124	N/A	0.000955	0.00140	0.00296
Nickel	1082	120.1	2360	307	1352	236	347	734
Nonylphenol	28	6.6	29.7	8.18	17.0	6.30	9.26	19.5
Parathion (ethyl)	0.065	0.013	0.0689	0.0161	0.0395	0.0124	0.0182	0.0386
Pentachlorophenol	17.6	13.5	18.7	16.8	10.7	12.9	15.7	33.2
Phenanthrene	30	30	31.8	37.2	18.2	28.6	26.7	56.6
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.12	0.0174	1.21	0.0134	0.0196	0.0415
Selenium	20	5	21.2	6.20	12.1	4.77	7.01	14.8
Silver	0.8	N/A	22.6	N/A	12.9	N/A	19.0	40.2
Toxaphene	0.78	0.0002	0.827	0.000248	0.474	0.000191	0.000280	0.000593
Tributyltin [TBT]	0.13	0.024	0.138	0.0298	0.0790	0.0229	0.0336	0.0712
2,4,5 Trichlorophenol	136	64	144	79.4	82.6	61.1	89.8	190
Zinc	271	273	906	1069	519	823	763	1615

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	157	146	215	455

Aldrin	1.146E-05	########	1.147E-04	0.0000157	0.0000146	0.0000214	0.0000454
Anthracene	1109	1317	13170	1803	1677	2465	5215
Antimony	6	1071	10710	1467	1364	2004	4241
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	796	740	1087	2301
Benzidine	0.0015	0.107	1.07	0.147	0.136	0.200	0.423
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0342	0.0318	0.0468	0.0990
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00342	0.00318	0.00468	0.00990
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.376	0.350	0.513	1.08
Bis(2-chloroethyl)ether	0.60	42.83	428.3	58.6	54.5	80.1	169
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	10.3	9.61	14.1	29.9
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	377	350	514	1089
Bromoform [Tribromomethane]	66.9	1060	10600	1451	1350	1984	4198
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	63.0	58.6	86.1	182
Chlordane	0.0025	0.0025	0.025	0.00342	0.00318	0.00468	0.00990
Chlorobenzene	100	2737	27370	3748	3485	5123	10839
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	251	233	342	724
Chloroform [Trichloromethane]	70	7697	76970	10540	9802	14408	30483
Chromium (hexavalent)	62	502	5020	687	639	939	1988
Chrysene	2.45	2.52	25.2	3.45	3.21	4.71	9.98
Cresols [Methylphenols]	1041	9301	93010	12736	11845	17411	36836
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00274	0.00255	0.00374	0.00792
4,4'-DDE	0.00013	0.00013	0.0013	0.000178	0.000166	0.000243	0.000514
4,4'-DDT	0.0004	0.0004	0.004	0.000548	0.000509	0.000748	0.00158
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	648	602	885	1873
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	5.81	5.40	7.93	16.7
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	815	758	1113	2356
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	4517	4201	6175	13065
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	3.07	2.85	4.19	8.87
1,2-Dichloroethane	5	364	3640	498	464	681	1441
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	75469	70186	103173	218279
Dichloromethane [Methylene Chloride]	5	13333	133330	18257	16979	24959	52805
1,2-Dichloropropane	5	259	2590	355	330	484	1025
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	163	152	222	471
Dicofol [Kelthane]	0.30	0.30	3	0.411	0.382	0.561	1.18
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000274	0.0000255	0.0000374	0.0000792
2,4-Dimethylphenol	444	8436	84360	11552	10743	15792	33410
Di-*n*-Butyl Phthalate	88.9	92.4	924	127	118	172	365
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.09E-07	1.01E-07	1.49E-07	3.15E-07
Endrin	0.02	0.02	0.2	0.0274	0.0255	0.0374	0.0792
Epichlorohydrin	53.5	2013	20130	2756	2564	3768	7972
Ethylbenzene	700	1867	18670	2557	2378	3495	7394
Ethylene Glycol	46744	1.68E+07	1.68E+08	23004672	21394345	31449687	66536412
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000137	0.000127	0.000187	0.000396
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000397	0.000369	0.000542	0.00114
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000931	0.000866	0.00127	0.00269
Hexachlorobutadiene	0.21	0.22	2.2	0.301	0.280	0.411	0.871

Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0115	0.0107	0.0157	0.0332
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.356	0.331	0.486	1.02
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.467	0.434	0.638	1.35
Hexachlorocyclopentadiene	10.7	11.6	116	15.9	14.8	21.7	45.9
Hexachloroethane	1.84	2.33	23.3	3.19	2.97	4.36	9.22
Hexachlorophene	2.05	2.90	29	3.97	3.69	5.42	11.4
4,4'-Isopropylidenediphenol	1092	15982	159820	21885	20353	29918	63296
Lead	1.15	3.83	38.3	26.4	24.5	36.0	76.3
Mercury	0.0122	0.0122	0.122	0.0167	0.0155	0.0228	0.0483
Methoxychlor	2.92	3.0	30	4.11	3.82	5.61	11.8
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1358371	1263285	1857029	3928816
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	14353	13349	19622	41513
Nickel	332	1140	11400	3213	2988	4392	9293
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2565	2385	3506	7418
N-Nitrosodiethylamine	0.0037	2.1	21	2.88	2.67	3.93	8.31
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	5.75	5.35	7.86	16.6
Pentachlorobenzene	0.348	0.355	3.55	0.486	0.452	0.664	1.40
Pentachlorophenol	0.22	0.29	2.9	0.397	0.369	0.542	1.14
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000876	0.000815	0.00119	0.00253
Pyridine	23	947	9470	1297	1206	1772	3750
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	0.329	0.306	0.449	0.950
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	36.1	33.6	49.3	104
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	383	357	524	1108
Thallium	0.12	0.23	2.3	0.315	0.293	0.430	0.910
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0151	0.0140	0.0205	0.0435
2,4,5-TP [Silvex]	50	369	3690	505	470	690	1461
1,1,1-Trichloroethane	200	784354	7843540	1074036	998854	1468314	3106434
1,1,2-Trichloroethane	5	166	1660	227	211	310	657
Trichloroethylene [Trichloroethene]	5	71.9	719	98.5	91.6	134	284
2,4,5-Trichlorophenol	1039	1867	18670	2557	2378	3495	7394
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	22.6	21.0	30.8	65.3

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	1.87	2.27
Aluminum	619	752
Arsenic	261	317
Cadmium	1.99	2.42
Carbaryl	1.25	1.51
Chlordane	0.00393	0.00477
Chlorpyrifos	0.0402	0.0489
Chromium (trivalent)	778	945
Chromium (hexavalent)	9.81	11.9
Copper	57.8	70.2
Cyanide (free)	10.5	12.7
4,4'-DDT	0.000982	0.00119
Demeton	0.0982	0.119
Diazinon	0.106	0.129

Dicofol [Kelthane]	19.4	23.6
Dieldrin	0.00196	0.00238
Diuron	68.7	83.5
Endosulfan I (*alpha*)	0.0550	0.0668
Endosulfan II (*beta*)	0.0550	0.0668
Endosulfan sulfate	0.0550	0.0668
Endrin	0.00196	0.00238
Guthion [Azinphos Methyl]	0.00982	0.0119
Heptachlor	0.00393	0.00477
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0786	0.0954
Lead	35.8	43.5
Malathion	0.00982	0.0119
Mercury	1.27	1.55
Methoxychlor	0.0294	0.0357
Mirex	0.000982	0.00119
Nickel	242	294
Nonylphenol	6.48	7.87
Parathion (ethyl)	0.0127	0.0155
Pentachlorophenol	11.0	13.3
Phenanthrene	18.7	22.7
Polychlorinated Biphenyls [PCBs]	0.0137	0.0167
Selenium	4.91	5.96
Silver	13.3	16.1
Toxaphene	0.000196	0.000238
Tributyltin [TBT]	0.0235	0.0286
2,4,5 Trichlorophenol	62.8	76.3
Zinc	534	648

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	150	182
Aldrin	0.0000150	0.0000182
Anthracene	1725	2095
Antimony	1403	1704
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	761	924
Benzidine	0.140	0.170
Benzo(*a*)anthracene	0.0327	0.0397
Benzo(*a*)pyrene	0.00327	0.00397
Bis(chloromethyl)ether	0.359	0.436
Bis(2-chloroethyl)ether	56.1	68.1
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	9.89	12.0
Bromodichloromethane [Dichlorobromomethane]	360	437
Bromoform [Tribromomethane]	1389	1686
Cadmium	N/A	N/A
Carbon Tetrachloride	60.2	73.1
Chlordane	0.00327	0.00397
Chlorobenzene	3586	4355
Chlorodibromomethane [Dibromochloromethane]	239	291
Chloroform [Trichloromethane]	10086	12247
Chromium (hexavalent)	657	798

Chrysene	3.30	4.00
Cresols [Methylphenols]	12188	14799
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00262	0.00318
4,4'-DDE	0.000170	0.000206
4,4'-DDT	0.000524	0.000636
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	619	752
1,2-Dibromoethane [Ethylene Dibromide]	5.55	6.74
m-Dichlorobenzene [1,3-Dichlorobenzene]	779	946
o-Dichlorobenzene [1,2-Dichlorobenzene]	4323	5249
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.93	3.56
1,2-Dichloroethane	476	579
1,1-Dichloroethylene [1,1-Dichloroethene]	72221	87697
Dichloromethane [Methylene Chloride]	17471	21215
1,2-Dichloropropane	339	412
1,3-Dichloropropene [1,3-Dichloropropylene]	155	189
Dicofol [Kelthane]	0.393	0.477
Dieldrin	0.0000262	0.0000318
2,4-Dimethylphenol	11054	13423
Di-*n*-Butyl Phthalate	121	147
Dioxins/Furans [TCDD Equivalents]	1.04E-07	1.26E-07
Endrin	0.0262	0.0318
Epichlorohydrin	2637	3203
Ethylbenzene	2446	2970
Ethylene Glycol	22014780	26732234
Fluoride	N/A	N/A
Heptachlor	0.000131	0.000159
Heptachlor Epoxide	0.000380	0.000461
Hexachlorobenzene	0.000891	0.00108
Hexachlorobutadiene	0.288	0.350
Hexachlorocyclohexane (*alpha*)	0.0110	0.0133
Hexachlorocyclohexane (*beta*)	0.340	0.413
Hexachlorocyclohexane (*gamma*) [Lindane]	0.446	0.542
Hexachlorocyclopentadiene	15.2	18.4
Hexachloroethane	3.05	3.70
Hexachlorophene	3.80	4.61
4,4'-Isopropylidenediphenol	20942	25430
Lead	25.2	30.6
Mercury	0.0159	0.0194
Methoxychlor	3.93	4.77
Methyl Ethyl Ketone	1299920	1578474
Methyl *tert*-butyl ether [MTBE]	13735	16679
Nickel	3074	3733
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2454	2980
N-Nitrosodiethylamine	2.75	3.34
N-Nitroso-di-*n*-Butylamine	5.50	6.68
Pentachlorobenzene	0.465	0.564
Pentachlorophenol	0.380	0.461
Polychlorinated Biphenyls [PCBs]	0.000838	0.00101
Pyridine	1240	1506
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.314	0.381

1,1,2,2-Tetrachloroethane	34.5	41.9
Tetrachloroethylene [Tetrachloroethylene]	366	445
Thallium	0.301	0.365
Toluene	N/A	N/A
Toxaphene	0.0144	0.0175
2,4,5-TP [Silvex]	483	587
1,1,1-Trichloroethane	1027820	1248067
1,1,2-Trichloroethane	217	264
Trichloroethylene [Trichloroethene]	94.2	114
2,4,5-Trichlorophenol	2446	2970
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	21.6	26.2