Administrative 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. Application materials

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010793002

APPLICATION. City of Burnet, P.O. Box 1369, Burnet, Texas 78611, has applied to the Texas Commission on Environmental Quality (TCEQ to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010793002 (EPA I.D. No. TX0026484) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,700,000 gallons per day with provisions to land apply Class B biosolids on 109.63 acres. The domestic wastewater treatment facility is located at 301 Waste Water Plant Drive, in the city of Burnet, in Burnet County, Texas 78611. The discharge route is from the plant site to Hamilton Creek; thence to Lake Travis. TCEQ received this application on October 7, 2024. The permit application will be available for viewing and copying at Herman Brown Free Library, reference desk, 100 East Washington Street, Burnet, in Burnet 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=-98.22514,30.73936&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 City of Burnet at the address stated above or by calling Mr. Jonathan Nguyen, Quiddity Engineering, at 512-685-5156.

Issuance Date: November 25, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010793002

SOLICITUD. Ciudad de Burnet, P.O. Box 1369, Burnet, Texas 78611, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010793002 (EPA I.D. No. TX0026484) 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 1,700,000 galones por día con disposiciones para aplicar lodos de aguas residuales Clase B Biosólidos en 109.63 acres. La planta está ubicada 301 Waste Water Plant Drive, en la ciudad de Burnet, en el Condado de Burnet, Texas 78611. La ruta de descarga es del sitio de la planta a Hamilton Creek; de allí al lago Travis. La TCEQ recibió esta solicitud el 7 de octubre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca gratuita Herman Brown, mostrador de referencia, 100 East Washington Street, Burnet, en el condado de Burnet, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.22514,30.73936&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 la Ciudad de Burnet a la dirección indicada arriba o llamando a Sr. Jonathan Nguyen, Quiddity Engineering, al 512-685-5156.

Fecha de emission: 25 de noviembre de 2024

City of Burnet
TPDES Renewal Application – Plain Language Summary

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 Burnet (CN600743074) operates the City of Burnet wastewater treatment plant (RN101720936), an activated sludge process plant operated in the complete mix mode. The facility is located at 301 Waste Water Plant Drive, in the City of Burnet, Burnet County, Texas 78611.

This application is for a renewal to discharge at an annual average flow of 1,700,000 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, aeration basins, final clarifiers, sludge thicker, belt press, tertiary filters, and ultraviolet disinfection.

The City of Burnet also operates Class B biosolids beneficial use land application unit on 109.63 acres of land. The land application units are located adjacent to and north and south of the wastewater treatment plant and adjacent and north of the runway at the municipal airport in Burnet County, Texas 78611.

The City of Burnet land applies Class B wastewater treatment plant biosolids for beneficial use at a maximum rate of 12 dry tons per acre per year on 109.63 acres of land. This land application unit will not discharge of pollutants into water in the state. The following pollutants are expected in biosolids land application: Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc. Examples of best management practices implemented by the City of Burnet include but are not limited to: monitoring of metal pollutants, pathogen reduction, vector attraction reduction, applicable land application unit buffer zones, soil monitoring and limiting application at the appropriate agronomic rate based on crop needs.

City of Burnet
TPDES Renewal Application – Plain Language Summary

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 son representaciones federales exigibles de la solicitud de permiso.

La ciudad de Burnet (CN600743074) opera la planta de tratamiento de aguas residuales de la ciudad de Burnet (RN101720936), una planta de procesamiento de lodos activados que funciona en modo de mezcla completa. La instalación está ubicada en 301 Waste Water Plant Drive, en la ciudad de Burnet, condado de Burnet, Texas 78611.

Esta solicitud es para una renovación para descargar un flujo promedio anual de 1.700.000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso ($CBOD_5$) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Análisis de contaminantes del efluente tratado en el paquete de solicitud de permiso. Las aguas residuales domésticas serán tratadas mediante una planta de proceso de lodos activados y las unidades de tratamiento incluirán una rejilla de rejas, tanques de aireación, clarificadores finales, espesador de lodos, prensa de banda, filtros terciarios y desinfección ultravioleta.

La ciudad de Burnet también opera una unidad de aplicación de tierras de uso beneficioso de biosólidos de Clase B en 109.63 acres de tierra. Las unidades de aplicación terrestre están ubicadas adyacentes, norte y sur de la planta de tratamiento de aguas residuales y adyacentes y al norte y adyacente a la pista del aeropuerto municipal en el condado de Burnet, Texas 78611.

La tierra de la ciudad de Burnet aplica biosólidos de plantas de tratamiento de aguas residuales de Clase B para uso beneficioso a una tasa máxima de 12 toneladas secas por acre por año en 109.63 acres de tierra. Esta unidad de aplicación terrestre no descargará contaminantes en el agua del estado. Se esperan los siguientes contaminantes en la aplicación terrestre de biosólidos: Arsénico, Cadmio, Cromo, Cobre, Plomo, Mercurio, Molibdeno, Níquel, Selenio y Zinc. Ejemplos de las mejores prácticas de manejo implementadas por La ciudad de Burnet incluyen, pero no se limitan a: monitoreo de contaminantes metálicos, reducción de patógenos, reducción de la atracción de vectores, zonas de amortiguamiento de unidades de aplicación de tierra aplicables, monitoreo del suelo y limitación de la aplicación a la tasa agronómica adecuada según las necesidades del cultivo.

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 7, 2024

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

Dear Applicant:

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

ER Account Number: ER094863
Application Reference Number: 657333
Authorization Number: WQ0010793002
Site Name: City of Burnet WWTP
Regulated Entity: RN101720936 - City of Burnet Wastewater Treatment Plant
Customer(s): CN600743074 - City of Burnet

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

WQ0010793002

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CITY OF BURNET WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	301 WASTE WATER PLANT DR
City	BURNET
State	TX
ZIP	78611
County	BURNET
Latitude (N) (##.######)	30.73936
Longitude (W) (-###.######)	-98.22514
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)?	RN101720936
What is the name of the Regulated Entity (RE)?	CITY OF BURNET
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	127 E JACKSON ST
City	BURNET
State	TX
ZIP	78611
County	BURNET
Latitude (N) (##.######)	30.756422
Longitude (W) (-###.######)	-98.226515
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

City of-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600743074
Type of Customer	Other Government

Full legal name of the applicant:

Legal Name	City of Burnet
Texas SOS Filing Number	
Federal Tax ID	746000460
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	21-100
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes

Responsible Authority Contact

Organization Name	City of Burnet
Prefix	MR
First	David
Middle	
Last	Vaughn
Suffix	
Credentials	
Title	City Manager

Responsible Authority Mailing Address

Enter new address or copy one from list:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 1369
Routing (such as Mail Code, Dept., or Attn:)	
City	BURNET
State	TX
ZIP	78611
Phone (###-###-####)	5127153208
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	dvaughn@cityofburnet.com

Billing Contact

Responsible contact for receiving billing statements:

Select the permittee that is responsible for payment of the annual fee.	CN600743074, City of Burnet
Organization Name	CITY OF BURNET

Prefix	MS
First	Patrice
Middle	
Last	Langford
Suffix	
Credentials	
Title	Finance Director
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 1369
Routing (such as Mail Code, Dept., or Attn:)	
City	BURNET
State	TX
ZIP	78611
Phone (###-###-####)	5127153205
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	PLANGFORD@CITYOFBURNET.COM

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	QUIDDITY ENGINEERING
Prefix	
First	JONATHAN
Middle	
Last	NGUYEN
Suffix	
Credentials	
Title	PERMIT SPECIALIST
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3100 ALVIN DEVANE BLVD
Routing (such as Mail Code, Dept., or Attn:)	SUITE 150
City	AUSTIN

State	TX
ZIP	78741
Phone (###-###-####)	5124419493
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JNGUYEN@QUIDDITY.COM

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	QUIDDITY ENGINEERING
Prefix	MR
First	STEVE
Middle	
Last	BARRY
Suffix	
Credentials	
Title	PROJECT ENGINEER
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1575 SAWDUST RD STE 400
Routing (such as Mail Code, Dept., or Attn:)	
City	THE WOODLANDS
State	TX
ZIP	77380
Phone (###-###-####)	2813634039
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2813633459
E-mail	SBARRY@QUIDDITY.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	
Organization Name	CITY OF BURNET
Prefix	MR

First	RICHARD
Middle	
Last	HARRISON
Suffix	
Credentials	
Title	WATER/WASTEWATER PLANT SUPREINTENDENT
Enter new address or copy one from list:	Billing Contact
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 1369
Routing (such as Mail Code, Dept., or Attn:)	
City	BURNET
State	TX
ZIP	78611
Phone (###-###-####)	5124703003
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	RHARRISON@CITYOFBURNET.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	CN600743074, City of Burnet
2) Organization Name	City of Burnet
3) Prefix	MR
4) First	David
5) Middle	
6) Last	Vaughn
7) Suffix	
8) Credentials	
9) Title	City Manager
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)	PO BOX 1369
11.2) Routing (such as Mail Code, Dept., or Attn:)	

11.3) City	BURNET
11.4) State	TX
11.5) ZIP	78611
12) Phone (###-###-####)	5127153208
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	DVAUGHN@CITYOFBURNET.COM

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	CITY OF BURNET
4) Mailing Address	P. O. BOX 1369
5) City	BURNET
6) State	TX
7) Zip Code	78611
8) Phone (###-###-####)	5127153208
9) Extension	
10) Email	DVAUGHN@CITYOFBURNET.COM
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	CITY OF BURNET
15) Mailing Address	P. O. BOX 1369
16) City	BURNET
17) State	TX
18) Zip Code	78611
19) Phone (###-###-####)	5127153208
20) Extension	
21) Email	DVAUGHN@CITYOFBURNET.COM
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	04/03/2025
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?	1.7
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?	TX0026484
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):	BURNET TX
6.5) County where the outfalls are located:	BURNET
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	Yes
7.1) List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:	JONATHAN NGUYEN

Public Notice Information

Individual Publishing the Notices	
1) Prefix	MR
2) First and Last Name	JONATHAN NGUYEN
3) Credential	
4) Title	PERMITTING SPECIALIST
5) Organization Name	QUIDDITY ENGINEERING
6) Mailing Address	3100 ALVIN DEVANE BLVD
7) Address Line 2	SUITE 150
8) City	AUSTIN
9) State	TX
10) Zip Code	78741
11) Phone (###-###-####)	5126855156
12) Extension	
13) Fax (###-###-####)	
14) Email	JNGUYEN@QUIDDITY.COM
Contact person to be listed in the Notices	
15) Prefix	MR

16) First and Last Name	JONATHAN NGUYEN
17) Credential	
18) Title	PERMITTING SPECIALIST
19) Organization Name	QUIDDITY ENGINEERING
20) Phone (###-###-####)	5126855156
21) Fax (###-###-####)	
22) Email	JNGUYEN@QUIDDITY.COM
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	BURNET
2) Public building name	HERMAN BROWN FREE LIBRARY
3) Location within the building	REFERENCE DESK
4) Physical Address of Building	100 EAST WASHINGTON STREET
5) City	BURNET
6) Contact Name	
7) Phone (###-###-####)	5127155228
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_Municipal TPDES PLS Form - Burnet.docx
Hash	073C64B745FDD3EE639FC18AB6F17FCF8CD3F664286A325253ADFE057AD906E0
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_04 - Attachment D - SPIF.pdf
Hash	08E667B57775910F40B71A294B05936F48846703151E662C43CD8461F012F875
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_03 - Attachment C - USGB MAP.pdf
Hash	726F523324A57702357B44F28364D7B2F5BA5C5BD03143DB962A66CDB7F80111
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?	No
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_23 - Attachment W - Tech Report.pdf
Hash	5FEBE76705A055483719E20A918F2D5F703D66AE61119F5B9944C706E55988E4
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Unneeded attachments.pdf
Hash	B999CB569AAE779EDACE1849CFD948329BE0C033905064E2C298864604375046

MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_06 - Attachment F - Schematics.pdf
Hash	91F8CF5AC59658A7D2F970932ABF92FEC8E75233EEE332297F19A23E415FA049
MIME-Type	application/pdf

5) Site Drawing

[File Properties]

File Name	SITEDR_07 - Attachment G - Service Area.pdf
Hash	2205A4CC01D4D14EB57ACE967A92A757FE9D1A86E1A4201DDB6904AEBFC4AC90
MIME-Type	application/pdf

6) Design Calculations

[File Properties]

File Name	DES_CAL_05 - Attachment E - Treatent Units.pdf
Hash	FA84227DA2D1E2E81C79F6E76BCBDA3112A32D0E39763B37132D70CD19CF82A3
MIME-Type	application/pdf

7) Solids Management Plan

[File Properties]

File Name	SMP_Unneeded attachments.pdf
Hash	B999CB569AAE779EDACE1849CFD948329BE0C033905064E2C298864604375046
MIME-Type	application/pdf

8) Water Balance

[File Properties]

File Name	WB_Unneeded attachments.pdf
Hash	B999CB569AAE779EDACE1849CFD948329BE0C033905064E2C298864604375046
MIME-Type	application/pdf

9) Other Attachments

[File Properties]

File Name	OTHER_A1 - Attachment A Core Data.pdf
Hash	BB4B5FED8F2D741D2869BCB6F4F1179BE8C052C520A35DADD623A3076C4D7724
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_A2 - Attachment R - Sludge Analysis.pdf

Hash	AF6B5DB529BB5B707A507F5ADF657BC1471EC64AF5951C946BFA21175622CD28
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_A3 - Attachment O - Nutrient Management Plan.pdf
Hash	6C9F8905C81F3553DDB2902D014244C9783B5605F827F42C192F2A8D2A84CDD8
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_Sludge application - Burnet - to be submitted.pdf
Hash	8C84AB72799B3723C76E391E95413429D5F8F88FB3714447D2BC10C9E5C938AA
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 Eric Belaj, the owner of the STEERS account ER061936.
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 WQ0010793002.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Eric Belaj OWNER

Customer Number:	CN600743074
Legal Name:	City of Burnet
Account Number:	ER061936

Signature IP Address:	71.42.186.178
Signature Date:	2024-10-07
Signature Hash:	6B044258D7C60BF0674FBCC0318E3D3370C9511C318D7154D5A1691E7A11720B
Form Hash Code at time of Signature:	4CB528357677F447ECA2E9D2B28B9A0BC1BCA76ACB77CBF83A9B2F4181241E82

Fee Payment

Transaction by:	The application fee payment transaction was made by ER061936/Eric Belaj
Paid by:	The application fee was paid by JONATHAN NGUYEN
Fee Amount:	$2000.00
Paid Date:	The application fee was paid on 2024-10-07
Transaction/Voucher number:	The transaction number is 582EA000628129 and the voucher number is 724245

Submission

Reference Number:	The application reference number is 657333
Submitted by:	The application was submitted by ER094863/ Huan J Nguyen
Submitted Timestamp:	The application was submitted on 2024-10-07 at 10:41:30 CDT
Submitted From:	The application was submitted from IP address 98.6.39.114
Confirmation Number:	The confirmation number is 569059
Steers Version:	The STEERS version is 6.82
Permit Number:	The permit number is WQ0010793002

Additional Information

Application Creator: This account was created by Stephen Barry

TCEQ Office Use Only
Permit No:
CN:
RN:
Region:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A PERMIT FOR BENEFICIAL LAND USE OF BIOSOLIDS

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

SECTION 1. TYPE OF APPLICATION

☐ New (original, site not permitted)

☐ New (previously permitted but allowed to expire or canceled)

☐ Major Amendment (including renewals with changes to substantive provisions of the permit)

☐ Minor Amendment (including non-substantive provisions of the registration, expiration date remains the same)

☒ Renewal

☐ Renewal with Minor Amendment

For amendments, describe the proposed changes:

N/A

For existing permits:

What is the permit number? WQ0010793002

SECTION 2. APPLICATION FEE

The application fee varies from $1,000 to $5,000 based on the quantity of biosolids to be applied annually. See instructions to determine the appropriate fee.

Provide your payment information below, for verification of payment

Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

SECTION 3. APPLICANT INFORMATION

A. The **site operator** must apply for the permit. What is the legal name of the site operator (applicant)? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

City of Burnet

B. If the applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN 600743074

C. What is the contact information for this applicant?

Contact Name: David Vaughn

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-715-3208 Fax Number:

E-mail Address: dvaughn@cityofburnet.com

SECTION 4. CO-APPLICANT INFORMATION

Complete this section only if more than one person or entity is a site operator.

A. What is the legal name of the co-applicant? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

N/A

B. If the co-applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN

C. What is the contact information for this applicant?

Contact Name:

Mailing Address:

City, State, and Zip Code:

Phone Number: _ Fax Number:

E-mail Address:

SECTION 5. APPLICATION CONTACT INFORMATION

These are the individuals that TCEQ will contact if additional information is needed about this application.

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

Application Contact First and Last Name: Steve Barry

Title: Project Engineer Credentials: P.E

Organization Name: Quiddity Engineering

Mailing Address: 1575 Sawdust Road, Suite 400

City, State, and Zip Code: The Woodlands, TX 77380

Phone Number: 281-363-4039 Fax Number:

E-mail Address: sbarry@quiddity.com

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

Application Contact First and Last Name: Jonathan Nguyen

Title: Permit Specialist Credentials:

Organization Name: Quiddity Engineering

Mailing Address: 3100 Alvin Devane Blvd., Suit 150

City, State, and Zip Code: Austin, TX 78741

Phone Number: 512-441-9493 Fax Number:

E-mail Address: jnguyen@quiddity.com

SECTION 6. PERMIT CONTACT INFORMATION

These are the individuals that TCEQ can contact during the term of the permit.

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

Permit Contact First and Last Name: David Vaughn

Title: General Manager Credentials:

Organization Name: City of Burnet

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-715-3208 Fax Number:

E-mail Address: dvaughn@cityofburnet.com

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

Permit Contact First and Last Name: Richard Harrison

Title: Water / Wastewater Plant Superintendent Credentials:

Organization Name: City of Burnet

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 1369

Phone Number: 512-470-3003 Fax Number:

E-mail Address: rharrison@cityofburnet.com

SECTION 7. BILLING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual fee invoices.

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

Billing Contact First and Last Name: Patrice Langford

Title: Finance Director Credentials:

Organization Name: City of Burnet

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-715-3205 Fax Number:

E-mail Address: plangford@cityofburnet.com

SECTION 8. REPORTING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual biosolids land application reports.

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

Reporting Contact First and Last Name: Richard Harrison

Title: Water / Wastewater Plant Superintendent Credentials:

Organization Name: City of Burnet

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-470-3003 Fax Number:

E-mail Address: rharrison@cityofburnet.com

SECTION 9. NOTICE INFORMATION

A. Individual responsible for publishing the notices in the newspaper

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

First and Last Name: Johnathan Nguyen

Title: Permit Specialist Credentials:

Company Name: Quiddity Engineering

Mailing Address: 3100 Alvin Devane Blvd., Suite 150

City, State, and Zip Code: Austin, TX 78741

Phone Number: 512-441-9493 Fax Number:

E-mail Address: jnguyen@quiddity.com

B. Method for receiving the notice package for the Notice of Receipt and Intent

☒ E-mail: jnguyen@quiddity.com

☐ Fax Number:

☐ Regular Mail:

Mailing Address:

City, State, and Zip Code:

C. Contact person to be listed in the notice

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

First and Last Name: Jonathan Nguyen

Title: Permit Specialist Credentials:

Company Name: Quiddity Engineering

Phone Number: 512-441-9493

D. Public viewing location

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

Public Building Name: Herman Brown Free Library

Physical Address of Building: 100 East Washington Street

City: Burnet, TX County: Burnet

Phone Number: 512-715-5228

E. Bilingual Notice Requirement

For new, major amendment, and renewal applications. This information can be obtained by contacting the bilingual/ESL coordinator at the nearest elementary or middle school.

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

   Yes ☒ No ☐

   (**If No**, alternative language notice publication is not required; skip to Section 10. Regulated Entity (Site) Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
   Yes ☒ No ☐

3. Do the students at these schools attend a bilingual education program at another location?
   Yes ☐ No ☒

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
   Yes ☐ No ☒

5. If the answer is yes to 1, 2, 3, or 4, public notice in an alternative language is required. Which language is required by the bilingual program? Spanish

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

Attachment Number: N/A

SECTION 10. REGULATED ENTITY (SITE) INFORMATION

A. Site Name: City of Burnet Land Application Sites

B. If this is an existing permitted site, provide the Regulated Entity Number (RN) issued to this site. RN 101720936

C. Site Address/Location:

Is the location of the application site used in the existing permit accurate?

☒ Yes ☐ No

If **YES**, skip to D. If **NO**, or if this application is for a new site, provide the physical address of the site such as: 12100 Park 35 Circle, Austin, TX 78753. If the site does not have a physical address, provide a location description such as: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

D. County where the site is located: Burnet

E. Latitude: 30.736453 Longitude: -98.228819

F. Landowner Information:

Attach an additional sheet if more than one landowner.

Prefix (Mr., Ms., Miss):

First and Last Name:

Organization Name: City of Burnet

Mailing Address: P.O. Box 1369

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-736-2402

G. County Judge

Provide the name of the county judge in each county where the site is located. Attach an additional sheet if more than one county.

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

First and Last Name: James Oakley

Mailing Address: 220 S. Pierce Street

City, State, and Zip Code: Burnet, TX 78611

Phone Number: 512-756-5400

Name of County: Burnet

SECTION 11. LAND APPLICATION INFORMATION

A. Provide the anticipated date (MM/DD/YY) of the first application of biosolids after issuance or re-issuance of the permit. NOTE: This date must be at least 330 days after the date TCEQ receives this application. N/A – land application has already begun

B. The application area is:

☒ within the city limit of: Burnet, TX

☐ within the extraterritorial jurisdiction of:

☐ outside the extraterritorial jurisdiction of:

C. Types of Waste

Identify the types of waste that will be land applied at this site.

☒ Wastewater Treatment Plant Class B Biosolids

☒ Water Treatment Plant Residuals

☐ Domestic Septage

D. Sources of Biosolids or Residuals

Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the location of the sources. Complete Table 1 for each source identified below.

Facility Name	Permit Number	Location
City of Burnet Wastewater Treatment Plant	WQ0010793002	301 Wastewater Plant Drive, Burnet, TX
City of Burnet Water Treatment Plant	PWS0270001	Park Road 4, Burnet County

E. Property Acreage

Total acreage of the entire property, including the application area and buffer zones: 228.87

F. Application Area Acreage

Total acreage where the biosolids may be applied, excluding the buffer zones: 109.63

SECTION 12. MISCELLANEOUS INFORMATION

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

Yes ☒ No ☐

If yes, provide the name(s) of the former TCEQ employee(s): Johnathan Nguyen

B. Is the site located on Indian Lands?

Yes ☐ No ☒

C. Is any permanent school fund land affected by this application?

Yes ☐ No ☒

If yes, provide the location, forseeable impacts, and effects this application has on the land(s).

D. Delinquent Fees and Penalties:

Do you owe fees to the TCEQ? Yes ☐ No ☒

Do you owe any penalties to the TCEQ? Yes ☐ No ☒

If you answered yes to either of the above questions, provide the amount owed, the type of fee or penalty, and an identifying number.

SECTION 13. AFFECTED LANDOWNER INFORMATION

A. Landowner map. Attach a landowner map or drawing. See instructions for information that must be displayed on the map.

Attachment Number: See Attachment I

B. Landowner list. Attach a list of the landowners' names and mailing addresses. The list must be cross-referenced to the letter or number identified on the landowner map.

Attachment Number: See Attachment I

C. Landowner list media. Indicate the format of the landowners list.

☒ Read/Writeable CD

☐ 4 sets of mailing labels

D. Landowner data source. Provide the source of the landowners' names and mailing addresses. Burnet County Appraisal District

SECTION 14. INSURANCE INFORMATION

This information is not required for an applicant that is a political subdivision (e.g. city, county, state agency, water district, etc.).

A. Commercial Liability Insurance

Attach a copy of the certificate of insurance in regard to commercial liability.

Attachment Number: N/A

B. Environmental Impairment Insurance

Attach a copy of the certificate of insurance in regard to environmental impairment.

Attachment Number: N/A

SECTION 15. MAPS AND ATTACHMENTS

A. TCEQ Core Data Form

Complete and submit a TCEQ Core Data Form (TCEQ-10400).

Attachment Number: See Attachment J

B. TCEQ Public Involvement Plan Form

Complete and submit a TCEQ Public Involvement Plan Form (TCEQ-20960) for new and major amendment applications.

Attachment Number: N/A

C. General Highway (County) Map

Submit an ORIGINAL General Highway (County) Map. See instructions for information that must be displayed on the map.

Attachment Number: See Attachment K

D. United States Geological Survey (USGS) Topographic Map

Submit an ORIGINAL United States Geological Survey (USGS) Topographic Map (1:24,000 scale). See instructions for information that must be displayed on the map.

Attachment Number: See Attachment L

E. USDA-NRCS Soil Map

Submit a legible copy of a USDA-NRCS Soil Map. See instructions for information that must be displayed on the map.

Attachment Number: See Attachment M

F. Federal Emergency Management Agency (FEMA) Map

Submit a copy of the FEMA map that shows the approximate application area boundaries, the surrounding area within one-quarter mile of the application area, and the appropriate legend.

Attachment Number: See Attachment N

G. Nutrient Management Plan

Attach a copy of the nutrient management plan that has been prepared by a certified nutrient management specialist, in accordance with the NRCS.

Attachment Number: See Attachment O

H. TCEQ Transporters Registration Approval Documents

Attach a copy of the TCEQ Transporters Registration approval documents.

Attachment Number: See Attachment P

I. Soil Analysis

Attach a copy of the soil laboratory analysis for the application area.

Attachment Number: See Attachment Q

H. Biosolids or Residuals Analyses

Attach a laboratory analysis for each source.

Attachment Number: See Attachment R

I. Metal and Nutrient Concentrations (Table 1)

Use the laboratory analyses to complete Table 1 for each source.

J. Volume Weighted Averages of Metal and Nutrient Concentrations (Table 2)

If more than one source of biosolids or residuals are land applied, complete Table 2.

K. Agronomic Rate Calculations (Appendix A)

Determine the agronomic application rate by completing and attaching Appendix A.

L. Pathogen Reduction Options (Appendix B)

Identify the pathogen reduction options by completing and attaching Appendix B.

M. Vector Attraction Reduction Options (Appendix C)

Identify the vector attraction reduction options by completing and attaching Appendix C.

N. On-Site Storage (Appendix D)

If on-site storage will occur at this site, complete and attach Appendix D.

LABORATORY ACCREDITATION

All laboratory tests performed must meet the requirements of 30 TAC Chapter 25, *Environmental Testing Laboratory Accreditation and Certification*, unless the laboratory meets 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;
  - located in another state and is accredited or inspected by that state;
  - 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.

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: David Vaughn

Title: General Manager, City of Burnet

Signature: _____Date: _____

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: Click here to enter text.

Applicant: Click here to enter text.

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: David Vaughn

Title: City Manager

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

TECHNICAL REPORT
FOR BENEFICIAL LAND USE OF CLASS B BIOSOLIDS

Note: The term "biosolids" also includes the combination of water treatment plant residuals with Class B Biosolids material.

SECTION 1. SITE HISTORY

Have biosolids or septage been previously land applied at this site?

☒ Yes ☐ No

If Yes, provide a short narrative on the agricultural practices previously used at the site. The narrative must discuss the following elements:

- crops grown;
- tillage practices;
- previous biosolids application amount (dry tons) and rates (dry tons per acre); and
- previous septage application amount (gallons) and rates (gallons per acre).

See Attachment S

SECTION 2. PROPOSED LAND APPLICATION ACTIVITIES

Provide a short narrative on the proposed land application activities at the site. The narrative must discuss the following elements:

- crops grown;
- planting dates;
- times per year applied;
- frequency of application; and
- tillage practices.

See Attachment S

SECTION 3. SOIL INFORMATION

A. Soil Properties

Complete the table below using the Physical and Chemical Properties and the Engineering Tables found in the USDA Natural Resources Conservation Service (NRCS) soils descriptions.

Map Symbol	Soil Type	Slope	pH	Depth to Bedrock* (inches)	Depth to Groundwater (feet)	Permeability (inches/hour)	Soil Depth** (inches)
	See Attachment T						

* If depth to bedrock is not specified in the soil survey, use the maximum depth shown.
** If soil depth is less than two feet, provide rationale for using these shallow soils. The rationale should include site specific investigation results.

B. Restrictive Soil Characteristics

In the table below, identify all soils that have the following restrictive characteristics and the management practices to be used.

- Soils with at least an "occasional flooding" classification may flood between 5 to 50 times in 100 years;
- Soil permeability of >6 inches per hour; and
- Seasonal groundwater or groundwater table below the treatment zone at least:
  - 3 feet for soil with permeability of <2 inches per hour
  - 4 feet for soil with permeability of 2-6 inches per hour.

Soil Type	Restrictive Characteristic	Best Management Practices
32 / Oakalla silty clay loam	Brief rising water potential	Maintain thick vegetation May – Sep when flooding unlikely. Application area is not in the floodway

Soil Type	Restrictive Characteristic	Best Management Practices

SECTION 4. WELL INFORMATION

In the table below, provide information about each well located on-site and within 500 feet of the application 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**
5723117 – water	Non-producing	Cased and capped	
5723116 – water	Non-producing	Cased and capped	
Also see Attachment U			

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.
** The following protective measures are required prior to initial biosolids/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. HYDROLOGIC CHARACTERISTICS

Submit information listed below, or equivalent documentation, regarding the hydrologic characteristics of the surface and groundwater at the application site and within one-quarter mile of the site.

- Aquifer identification per Texas Water Development Board Report 345
- Location of the area according to the Geologic Atlas of Texas, published by the University of Texas, Bureau of Economic Geology.
- Any feature that exhibits a direct hydrologic connection between surface and subsurface water.
- List periods of seasonal perched and/or high water table, if any.

Attachment Number: See Attachment V

Table 1
Pollutant and Nutrient Concentrations in Biosolids and Water Treatment Residuals (if applicable)

Complete this table **for each source** of biosolids and residuals.

Facility Name: City of Burnet Wastewater Treatment Plant

TCEQ Authorization Number: WQ0010793002

POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	< 5.74	6/12/2024	5.74	
Cadmium (Cd)	85	< 1.15	6/12/2024	1.15	
Chromium (Cr)	3000	27.9	6/12/2024	1.15	
Copper (Cu)	4300	566	6/12/2024	1.15	
Lead (Pb)	840	21.6	6/12/2024	1.15	
Mercury (Hg)	57	0.487	6/12/2024	0.0643	
Molybdenum (Mo)	75	4.67	6/12/2024	3.45	
Nickel (Ni)	420	34.6	6/12/2024	1.15	
Selenium (Se)	100	9.39	6/12/2024	1.15	
Zinc (Zn)	7500	1230	6/12/2024	11.5	
PCB (ppm)	50.0 ppm	<1.68	6/12/2024	1.68	

NUTRIENT ANALYSIS

Nutrient	Concentration (%)	Sample Date	Detection Level for Analysis	Sample Method
Total Kjeldahl Nitrogen (TKN)	2.76	6/12/2024	0.0336	
Ammonium Nitrogen (NH_4-N)	0.178	6/12/2024	0.00403	
Nitrate Nitrogen (NO_3-N)	0.00174	6/12/2024	0.000764	
Total Phosphorus (P)	2.04	6/12/2024	0.0115	
Total Potassium (K)	0.21	6/12/2024	0.0574	

TABLE 2
Volume Weighted Average (Mean) of Nutrient and Pollutant Concentration

Complete this table if more than one source is land applied at the site.

Directions:

1. For each pollutant, multiply the Pollutant Concentrations from Table 1 by the estimated number of dry tons you expect to apply from each facility.
2. Sum the individual columns. Enter results in last row of the table.
3. Divide the sum of each column by the dry tons sum (bottom of second column). Enter number in the appropriate Volume Weighted Average Box (row below table).
4. Use these final results to complete Appendix A, Step 1.

TCEQ Auth. Number	Est. Dry Tons*	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	TKN	NH_4-N	NO_3-N	P	K
WQ	89.1	255.7	51.23	2,486	50,430	1,925	43.39	416.1	3,083	836.6	109,593	2,459,160	158,598	1,550.3	1,817,640	187,110
WPS	15.0	355.5	1.98	71.25	113,250	28.35	0.01	20.25	37.65	1.98	528	28,800	703.5	13.95	232,500	3,015
Sum	104.1	611.217	53.21	2,557.14	163,681	1953	43.49	436.35	3,120	838.6	110,121	2,487,960	159,301	1,564.3	2,050,140	190,125
Volume Weighted Average		5.87	0.51	24.6	1,572	18.8	0.42	4.19	30.0	8.1	1058	23,900	1,530	15.03	19,694	1,826

*Total estimated dry tons to be land applied from the source facility.

APPENDIX A
AGRONOMIC RATE CALCULATIONS

Note: The maximum allowable agronomic rate for land application of Class B Biosolids is 12 tons/acre/year.

APPENDIX A, PART 1. APPLICATION RATE

STEP 1. CALCULATE QUANTITY OF NUTRIENTS AND METALS IN BIOSOLIDS AND RESIDUALS IN LBS/TON

Nutrient	Concentration (%)**	Conversion Factor	Pounds per Ton
Total Kjeldahl Nitrogen (TKN)	2.39	x 20	47.80
Ammonium Nitrogen (NH4-N)	0.15	x 20	3.06
Nitrate Nitrogen (NO3-N)	0.0015	x 20	0.03
Total Phosphorus (P)	1.97	x 20	39.4
Total Potassium (K)	0.18	x 20	3.65

Pollutant	Test Results, mg/kg dry weight	Conversion Factor	Pounds per Ton
Total Arsenic (As)	5.87	x 0.002	0.0117
Total Cadmium (Cd)	0.51	x 0.002	0.0010
Total Chromium (Cr)	24.6	x 0.002	0.0491
Total Copper (Cu)	1,572	x 0.002	3.144
Total Lead (Pb)	18.8	x 0.002	0.0375
Total Mercury (Hg)	0.42	x 0.002	0.0008
Total Molybdenum (Mo)	4.19	x 0.002	0.0084
Total Nickel (Ni)	30.0	x 0.002	0.0600
Total Selenium (Se)	8.1	x 0.002	0.016
Total Zinc (Zn)	1,057	x 0.002	2.116

**Values from laboratory analysis (dry weight only).

Conversions:

mg/kg ÷ 10,000 = %

ppm = mg/kg

STEP 2. CROPPING PLAN AND NUTRIENT NEEDS - Field 1A

Warm Season Intended Crop(s): Haygrazer

Yield Goal: 7500 lbs (double cropped) Nitrogen Requirement, in lb/yr: 100

Cool Season Intended Crop(s): Haygrazer and oats

Yield Goal: 7500 lbs (double cropped) Nitrogen Requirement, in lb/yr: 149

Provide the data source for the nitrogen requirements above.

Nutrient Management Plan – Attachment O

Nitrogen needed by crop:

2A. Total Nitrogen Requirement*	249
2B. Nitrogen available in soil**	7.9
2C. Nitrogen amount still needed	
Line 2A – Line 2B	241.1

*Line 2A = Sum of the nitrogen requirement for the specified yield goals for the warm season crop and cool season crop

**Line 2B = 2*NO_3-N (ppm)(in the 0-6" soil depth) + 6*NO_3- N(ppm)(in the 6-24" soil depth)

STEP 3. CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE BIOSOLIDS AND RESIDUALS

Use the TKN, NH_4-N, and NO_3-N from Step 1.

Organic Nitrogen = TKN – (NH_4-N) – (NO_3-N) 45

Mineralization Rate (%) * 0.3

3A. Organic Nitrogen x Mineralization Rate 13

3B. Ammonium Nitrogen = (NH_4-N) x V 3

V = 0.5 if biosolids are left on soil surface

V = 1.0 if biosolids are worked into the soil

3C. Nitrate Nitrogen (NO_3-N) 0.03

3D. Total PAN = (Line 3A + Line3B + Line 3C)= 16.5

*Mineralization Rates:

Treatment Method	Mineralization Rates
Unstabilized Primary and Waste Activated Biosolids	40 %
Aerobically Digested Biosolids	30 %
Anaerobically Digested Biosolids	20 %
Composted Biosolids	10 %

STEP 4. CALCULATE MAXIMUM BIOSOLIDS APPLICATION RATES BASED ON CROP NITROGEN NEEDS (SAR_N)

4A. Nitrogen amount still needed (lbs/acre/year)

Enter amount from Step 2C. 241.1

4B. Total PAN (lbs/ton)

Enter amount from Step 3D. 16.5

4C. Biosolids Application Rate (BAR_N) (tons/acre/year)

Line 4A ÷ Line 4B 14.61

STEP 5. CALCULATE MAXIMUM APPLICATION RATE BASED ON METALS (SAR_M)

METAL	A Cumulative Metal Limits (lbs/ac)	B Max Loading Rate (lbs/ac/yr)	C Metals In Biosolids (lbs/ton) (Step 1)	D Metals Applied Yearly at BAR_N (lbs/acre/yr) (C x SAR_N)	E Biosolids Applied Yearly at BAR_M (tons/acre/yr) (B ÷ C)	F Max Loading Rate (tons/acre) (A ÷ C)
Arsenic	36	1.8	0.0117	**0.160**	N/A	3,066
Cadmium	35	1.7	0.0010	**0.014**	N/A	24,235
Chromium	2677	134	0.0491	**0.669**	N/A	54,490
Copper	1339	67	3.1447	**42.8**	N/A	426
Lead	268	13	0.0375	**1.511**	N/A	7,143
Mercury	15	0.76	0.0008	**0.011**	N/A	17,952
Molybdenum	Monitor	Monitor	0.0084	**0.114**	N/A	N/A
Nickel	375	18.7	0.0600	**0.817**	N/A	6,255
Selenium	89	4.5	0.0161	**0.219**	N/A	5,524
Zinc	2500	125	2.1157	**28.8**	N/A	1,182
Other						

Note: For each metal, if the value in column B is greater than the value in column D (B>D), the BAR_N dictates the maximum biosolids application rate. Enter N/A in column E. If the value in column B is less than the value in column D (B<D), then the BAR_M dictates the maximum biosolids application rate and the value of E = B ÷ C.

STEP 6. CALCULATE THE CUMULATIVE LOADING RATE

6A. Maximum allowable cumulative biosolids loading rate

Lowest value in Step 5, Column F (tons/acre) 426

6B. Previous applications of biosolids (tons/acre)

6C. Remaining biosolids application rate to reach metal limits

Line 6A – Line 6B (tons/acre)

6D. Maximum allowable biosolids application rate

Lowest value of Step 4C and Step 5, Column E (tons/acre/year)

13.62

6E. Years remaining to reach the maximum cumulative loading

Line 6C ÷ Line 6D (years)

STEP 2. CROPPING PLAN AND NUTRIENT NEEDS - Field 1B

Warm Season Intended Crop(s): Haygrazer

Yield Goal: 3 cuttings Nitrogen Requirement, in lb/yr: 238

Cool Season Intended Crop(s): Click here to enter text.

Yield Goal: Click here to enter text. Nitrogen Requirement, in lb/yr: Click here to enter text.

Provide the data source for the nitrogen requirements above.

Nutrient Management Plan – Attachment O

Nitrogen needed by crop:

2A. Total Nitrogen Requirement*	238
2B. Nitrogen available in soil**	42.5
2C. Nitrogen amount still needed	
Line 2A – Line 2B	195.5

*Line 2A = Sum of the nitrogen requirement for the specified yield goals for the warm season crop and cool season crop

**Line 2B = 2*NO_3-N (ppm)(in the 0-6" soil depth) + 6*NO_3- N(ppm)(in the 6-24" soil depth)

STEP 3. CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE BIOSOLIDS AND RESIDUALS

Use the TKN, NH_4-N, and NO_3-N from Step 1.

Organic Nitrogen = TKN – (NH_4-N) – (NO_3-N) 45

Mineralization Rate (%) * 0.3

3A. Organic Nitrogen x Mineralization Rate 13

3B. Ammonium Nitrogen = (NH_4-N) x V 3

V = 0.5 if biosolids are left on soil surface

V = 1.0 if biosolids are worked into the soil

3C. Nitrate Nitrogen (NO_3-N) 0.03

3D. Total PAN = (Line 3A + Line3B + Line 3C)= 16.5

*Mineralization Rates:

Treatment Method	Mineralization Rates
Unstabilized Primary and Waste Activated Biosolids	40 %
Aerobically Digested Biosolids	30 %
Anaerobically Digested Biosolids	20 %
Composted Biosolids	10 %

STEP 4. CALCULATE MAXIMUM BIOSOLIDS APPLICATION RATES BASED ON CROP NITROGEN NEEDS (SAR_N)

4A. Nitrogen amount still needed (lbs/acre/year)

Enter amount from Step 2C. 195.5

4B. Total PAN (lbs/ton)

Enter amount from Step 3D. 16.5

4C. Biosolids Application Rate (BAR_N) (tons/acre/year)

Line 4A ÷ Line 4B 11.85

STEP 5. CALCULATE MAXIMUM APPLICATION RATE BASED ON METALS (SAR_M)

METAL	A Cumulative Metal Limits (lbs/ac)	B Max Loading Rate (lbs/ac/yr)	C Metals In Biosolids (lbs/ton) (Step 1)	D Metals Applied Yearly at BAR_N (lbs/acre/yr) (C x SAR_N)	E Biosolids Applied Yearly at BAR_M (tons/acre/yr) (B ÷ C)	F Max Loading Rate (tons/acre) (A ÷ C)
Arsenic	36	1.8	0.0117	**0.160**	N/A	3,066
Cadmium	35	1.7	0.0010	**0.014**	N/A	24,235
Chromium	2677	134	0.0491	**0.669**	N/A	54,490
Copper	1339	67	3.1447	**42.8**	N/A	426
Lead	268	13	0.0375	**1.511**	N/A	7,143
Mercury	15	0.76	0.0008	**0.011**	N/A	17,952
Molybdenum	Monitor	Monitor	0.0084	**0.114**	N/A	N/A
Nickel	375	18.7	0.0600	**0.817**	N/A	6,255
Selenium	89	4.5	0.0161	**0.219**	N/A	5,524
Zinc	2500	125	2.1157	**28.8**	N/A	1,182
Other						

Note: For each metal, if the value in column B is greater than the value in column D (B>D), the BAR_N dictates the maximum biosolids application rate. Enter N/A in column E. If the value in column B is less than the value in column D (B<D), then the BAR_M dictates the maximum biosolids application rate and the value of E = B ÷ C.

STEP 6. CALCULATE THE CUMULATIVE LOADING RATE

6A. Maximum allowable cumulative biosolids loading rate

Lowest value in Step 5, Column F (tons/acre) 426

6B. Previous applications of biosolids (tons/acre) 12.1

6C. Remaining biosolids application rate to reach metal limits

Line 6A – Line 6B (tons/acre) 413.7

6D. Maximum allowable biosolids application rate

Lowest value of Step 4C and Step 5, Column E (tons/acre/year)

11.85

6E. Years remaining to reach the maximum cumulative loading

Line 6C ÷ Line 6D (years) 35

STEP 2. CROPPING PLAN AND NUTRIENT NEEDS - Field 1C

Warm Season Intended Crop(s): Haygrazer

Yield Goal: 3 cuttings Nitrogen Requirement, in lb/yr: 238

Cool Season Intended Crop(s): Click here to enter text.

Yield Goal: Click here to enter text. Nitrogen Requirement, in lb/yr: Click here to enter text.

Provide the data source for the nitrogen requirements above.

Nutrient Management Plan – Attachment O

Nitrogen needed by crop:

2A. Total Nitrogen Requirement*	238
2B. Nitrogen available in soil**	6.6
2C. Nitrogen amount still needed	
Line 2A – Line 2B	231.4

*Line 2A = Sum of the nitrogen requirement for the specified yield goals for the warm season crop and cool season crop

**Line 2B = 2*NO_3-N (ppm)(in the 0-6" soil depth) + 6*NO_3- N(ppm)(in the 6-24" soil depth)

STEP 3. CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE BIOSOLIDS AND RESIDUALS

Use the TKN, NH_4-N, and NO_3-N from Step 1.

Organic Nitrogen = TKN – (NH_4-N) – (NO_3-N) 45

Mineralization Rate (%) * 0.3

3A. Organic Nitrogen x Mineralization Rate 13

3B. Ammonium Nitrogen = (NH_4-N) x V 3

V = 0.5 if biosolids are left on soil surface

V = 1.0 if biosolids are worked into the soil

3C. Nitrate Nitrogen (NO_3-N) 0.03

3D. Total PAN = (Line 3A + Line3B + Line 3C)= 16.5

*Mineralization Rates:

Treatment Method	Mineralization Rates
Unstabilized Primary and Waste Activated Biosolids	40 %
Aerobically Digested Biosolids	30 %
Anaerobically Digested Biosolids	20 %
Composted Biosolids	10 %

STEP 4. CALCULATE MAXIMUM BIOSOLIDS APPLICATION RATES BASED ON CROP NITROGEN NEEDS (SAR_N)

4A. Nitrogen amount still needed (lbs/acre/year)

Enter amount from Step 2C. 231.4

4B. Total PAN (lbs/ton)

Enter amount from Step 3D. 16.5

4C. Biosolids Application Rate (BAR_N) (tons/acre/year)

Line 4A ÷ Line 4B 14.02

STEP 5. CALCULATE MAXIMUM APPLICATION RATE BASED ON METALS (SAR_M)

METAL	A Cumulative Metal Limits (lbs/ac)	B Max Loading Rate (lbs/ac/yr)	C Metals In Biosolids (lbs/ton) (Step 1)	D Metals Applied Yearly at BAR_N (lbs/acre/yr) (C x SAR_N)	E Biosolids Applied Yearly at BAR_M (tons/acre/yr) (B ÷ C)	F Max Loading Rate (tons/acre) (A ÷ C)
Arsenic	36	1.8	0.0117	**0.160**	N/A	3,066
Cadmium	35	1.7	0.0010	**0.014**	N/A	24,235
Chromium	2677	134	0.0491	**0.669**	N/A	54,490
Copper	1339	67	3.1447	**42.8**	N/A	426
Lead	268	13	0.0375	**1.511**	N/A	7,143
Mercury	15	0.76	0.0008	**0.011**	N/A	17,952
Molybdenum	Monitor	Monitor	0.0084	**0.114**	N/A	N/A
Nickel	375	18.7	0.0600	**0.817**	N/A	6,255
Selenium	89	4.5	0.0161	**0.219**	N/A	5,524
Zinc	2500	125	2.1157	**28.8**	N/A	1,182
Other						

Note: For each metal, if the value in column B is greater than the value in column D (B>D), the BAR_N dictates the maximum biosolids application rate. Enter N/A in column E. If the value in column B is less than the value in column D (B<D), then the BAR_M dictates the maximum biosolids application rate and the value of E = B ÷ C.

STEP 6. CALCULATE THE CUMULATIVE LOADING RATE

6A. Maximum allowable cumulative biosolids loading rate

Lowest value in Step 5, Column F (tons/acre) 426

6B. Previous applications of biosolids (tons/acre) 6.2

6C. Remaining biosolids application rate to reach metal limits

Line 6A – Line 6B (tons/acre) 419.6

6D. Maximum allowable biosolids application rate

Lowest value of Step 4C and Step 5, Column E (tons/acre/year)

14.02

6E. Years remaining to reach the maximum cumulative loading

Line 6C ÷ Line 6D (years) 30

STEP 2. CROPPING PLAN AND NUTRIENT NEEDS - Field 1D

Warm Season Intended Crop(s): Haygrazer

Yield Goal: 3 cuttings Nitrogen Requirement, in lb/yr: 238

Cool Season Intended Crop(s): Click here to enter text.

Yield Goal: Click here to enter text. Nitrogen Requirement, in lb/yr: Click here to enter text.

Provide the data source for the nitrogen requirements above.

Nutrient Management Plan – Attachment O

Nitrogen needed by crop:

2A. Total Nitrogen Requirement*	238
2B. Nitrogen available in soil**	12.5
2C. Nitrogen amount still needed	
Line 2A – Line 2B	225.5

*Line 2A = Sum of the nitrogen requirement for the specified yield goals for the warm season crop and cool season crop

**Line 2B = 2*NO_3-N (ppm)(in the 0-6" soil depth) + 6*NO_3- N(ppm)(in the 6-24" soil depth)

STEP 3. CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE BIOSOLIDS AND RESIDUALS

Use the TKN, NH_4-N, and NO_3-N from Step 1.

Organic Nitrogen = TKN – (NH_4-N) – (NO_3-N) 45

Mineralization Rate (%) * 0.3

3A. Organic Nitrogen x Mineralization Rate 13

3B. Ammonium Nitrogen = (NH_4-N) x V 3

V = 0.5 if biosolids are left on soil surface

V = 1.0 if biosolids are worked into the soil

3C. Nitrate Nitrogen (NO_3-N) 0.03

3D. Total PAN = (Line 3A + Line3B + Line 3C)= 16.5

*Mineralization Rates:

Treatment Method	Mineralization Rates
Unstabilized Primary and Waste Activated Biosolids	40 %
Aerobically Digested Biosolids	30 %
Anaerobically Digested Biosolids	20 %
Composted Biosolids	10 %

STEP 4. CALCULATE MAXIMUM BIOSOLIDS APPLICATION RATES BASED ON CROP NITROGEN NEEDS (SAR_N)

4A. Nitrogen amount still needed (lbs/acre/year)

Enter amount from Step 2C. 225.5

4B. Total PAN (lbs/ton)

Enter amount from Step 3D. 16.5

4C. Biosolids Application Rate (BAR_N) (tons/acre/year)

Line 4A ÷ Line 4B 13.66

STEP 5. CALCULATE MAXIMUM APPLICATION RATE BASED ON METALS (SAR_M)

METAL	A Cumulative Metal Limits (lbs/ac)	B Max Loading Rate (lbs/ac/yr)	C Metals In Biosolids (lbs/ton) (Step 1)	D Metals Applied Yearly at BAR_N (lbs/acre/yr) (C x SAR_N)	E Biosolids Applied Yearly at BAR_M (tons/acre/yr) (B ÷ C)	F Max Loading Rate (tons/acre) (A ÷ C)
Arsenic	36	1.8	0.0117	**0.160**	N/A	3,066
Cadmium	35	1.7	0.0010	**0.014**	N/A	24,235
Chromium	2677	134	0.0491	**0.669**	N/A	54,490
Copper	1339	67	3.1447	**42.8**	N/A	426
Lead	268	13	0.0375	**1.511**	N/A	7,143
Mercury	15	0.76	0.0008	**0.011**	N/A	17,952
Molybdenum	Monitor	Monitor	0.0084	**0.114**	N/A	N/A
Nickel	375	18.7	0.0600	**0.817**	N/A	6,255
Selenium	89	4.5	0.0161	**0.219**	N/A	5,524
Zinc	2500	125	2.1157	**28.8**	N/A	1,182
Other						

Note: For each metal, if the value in column B is greater than the value in column D (B>D), the BAR_N dictates the maximum biosolids application rate. Enter N/A in column E. If the value in column B is less than the value in column D (B<D), then the BAR_M dictates the maximum biosolids application rate and the value of E = B ÷ C.

STEP 6. CALCULATE THE CUMULATIVE LOADING RATE

6A. Maximum allowable cumulative biosolids loading rate

Lowest value in Step 5, Column F (tons/acre) 426

6B. Previous applications of biosolids (tons/acre) 14.2

6C. Remaining biosolids application rate to reach metal limits

Line 6A – Line 6B (tons/acre) 411.6

6D. Maximum allowable biosolids application rate

Lowest value of Step 4C and Step 5, Column E (tons/acre/year)

13.66

6E. Years remaining to reach the maximum cumulative loading

Line 6C ÷ Line 6D (years) 30

STEP 2. CROPPING PLAN AND NUTRIENT NEEDS - Field 1E

Warm Season Intended Crop(s): Haygrazer

Yield Goal: 3 cuttings Nitrogen Requirement, in lb/yr: 238

Cool Season Intended Crop(s): Click here to enter text.

Yield Goal: Click here to enter text. Nitrogen Requirement, in lb/yr: Click here to enter text.

Provide the data source for the nitrogen requirements above.

Nutrient Management Plan – Attachment O

Nitrogen needed by crop:

2A. Total Nitrogen Requirement*	238
2B. Nitrogen available in soil**	13.2
2C. Nitrogen amount still needed	
Line 2A – Line 2B	224.8

*Line 2A = Sum of the nitrogen requirement for the specified yield goals for the warm season crop and cool season crop

**Line 2B = 2*NO_3-N (ppm)(in the 0-6" soil depth) + 6*NO_3- N(ppm)(in the 6-24" soil depth)

STEP 3. CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE BIOSOLIDS AND RESIDUALS

Use the TKN, NH_4-N, and NO_3-N from Step 1.

Organic Nitrogen = TKN – (NH_4-N) – (NO_3-N) 45

Mineralization Rate (%) * 0.3

3A. Organic Nitrogen x Mineralization Rate 13

3B. Ammonium Nitrogen = (NH_4-N) x V 3

V = 0.5 if biosolids are left on soil surface

V = 1.0 if biosolids are worked into the soil

3C. Nitrate Nitrogen (NO_3-N) 0.03

3D. Total PAN = (Line 3A + Line3B + Line 3C)= 16.5

*Mineralization Rates:

Treatment Method	Mineralization Rates
Unstabilized Primary and Waste Activated Biosolids	40 %
Aerobically Digested Biosolids	30 %
Anaerobically Digested Biosolids	20 %
Composted Biosolids	10 %

STEP 4. CALCULATE MAXIMUM BIOSOLIDS APPLICATION RATES BASED ON CROP NITROGEN NEEDS (SAR_N)

4A. Nitrogen amount still needed (lbs/acre/year)

Enter amount from Step 2C. 224.8

4B. Total PAN (lbs/ton)

Enter amount from Step 3D. 16.5

4C. Biosolids Application Rate (BAR_N) (tons/acre/year)

Line 4A ÷ Line 4B 13.62

STEP 5. CALCULATE MAXIMUM APPLICATION RATE BASED ON METALS (SAR_M)

METAL	A Cumulative Metal Limits (lbs/ac)	B Max Loading Rate (lbs/ac/yr)	C Metals In Biosolids (lbs/ton) (Step 1)	D Metals Applied Yearly at BAR_N (lbs/acre/yr) (C x SAR_N)	E Biosolids Applied Yearly at BAR_M (tons/acre/yr) (B ÷ C)	F Max Loading Rate (tons/acre) (A ÷ C)
Arsenic	36	1.8	0.0117	**0.160**	N/A	3,066
Cadmium	35	1.7	0.0010	**0.014**	N/A	24,235
Chromium	2677	134	0.0491	**0.669**	N/A	54,490
Copper	1339	67	3.1447	**42.8**	N/A	426
Lead	268	13	0.0375	**1.511**	N/A	7,143
Mercury	15	0.76	0.0008	**0.011**	N/A	17,952
Molybdenum	Monitor	Monitor	0.0084	**0.114**	N/A	N/A
Nickel	375	18.7	0.0600	**0.817**	N/A	6,255
Selenium	89	4.5	0.0161	**0.219**	N/A	5,524
Zinc	2500	125	2.1157	**28.8**	N/A	1,182
Other						

Note: For each metal, if the value in column B is greater than the value in column D (B>D), the BAR_N dictates the maximum biosolids application rate. Enter N/A in column E. If the value in column B is less than the value in column D (B<D), then the BAR_M dictates the maximum biosolids application rate and the value of E = B ÷ C.

STEP 6. CALCULATE THE CUMULATIVE LOADING RATE

6A. Maximum allowable cumulative biosolids loading rate

Lowest value in Step 5, Column F (tons/acre) 426

6B. Previous applications of biosolids (tons/acre) 3.3

6C. Remaining biosolids application rate to reach metal limits

Line 6A – Line 6B (tons/acre) 422.5

6D. Maximum allowable biosolids application rate

Lowest value of Step 4C and Step 5, Column E (tons/acre/year)

13.62

6E. Years remaining to reach the maximum cumulative loading

Line 6C ÷ Line 6D (years)

APPENDIX B
PATHOGEN REDUCTION REQUIREMENTS

For each source, select the pathogen reduction alternative that will be used prior to land application of biosolids septage. Requirements for each alternative can be found in 30 TAC §312.82.

TCEQ Permit Number	Pathogen Reduction Alternative Used	Fecal Coliform Geometric Mean (cfu/gram total solids)*	Fecal Test Date*	Is PSRP Certification Attached?** (Yes/No/NA)
Example WQ11280-001	Option 1: Density of Fecal Coliform	44,590 cfu/g	6/12/2024	NA
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			

*Applicable to Option 1 only.
**Applicable to Option 2a – f.

If Other is selected as the Alternative Used, please explain:

APPENDIX C
VECTOR ATTRACTION REDUCTION REQUIREMENTS

For each source, provide the vector attraction reduction option that will be used prior to or after land application of biosolids/septage. Requirements for each alternative can be found in 30 TAC §312.83.

TCEQ Permit Number	Vector Attraction Reduction Alternative Used*	Monitoring Criteria and results needed for alternative
Example WQ11280-001	Option 10: Incorporate within 6 hrs	Visual inspection of area after tilling
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	

*Options 1-8 are Class B biosolids treatment alternatives. Options 9-10 are onsite alternatives. Option 12 is for domestic septage only.

APPENDIX D
ON-SITE STORAGE

If on-site storage will occur at the site, this Appendix must be completed in its entirety. On-site storage does not include staging of biosolids or septage for up to seven (7) days prior to applying it. On-site storage cannot exceed the 90-day maximum per 30 TAC §312.50 unless properly authorized for each instance. Construction of the storage area cannot begin until written authorization for this action is received from the TCEQ. Materials cannot be treated without proper authorization from the TCEQ.

A. Provide a complete description of operational plans for the temporary storage, including all steps to be taken to control odors, vectors and other nuisance conditions.
Click here to enter text.

B. The location of the temporary storage area(s) must be accurately shown on the USGS topographic map submitted with the application, including all main features of the storage area(s) (e.g. berms, tanks, pads, liners, storm water retention, etc.).

C. Provide a copy of the liner and storage tank certification as per 30 TAC §312.50(a)(4) or 312.50(a)(8).

Attachment Number: Click here to enter text.

D. Describe the proposed spill prevention and cleanup methods.
Click here to enter text.

E. Provide a certification that the berm(s) will hold the required volume(s) without discharging as per 30 TAC §312.50 (a)(7).

Attachment Number: Click here to enter text.

F. Describe the method for stormwater runoff collection and disposal.
Click here to enter text.

G. Describe methods to be used to ensure no loads of biosolids remain at the temporary storage site for longer than 90 days, including how exceptions to this restriction will be requested (as provided by 30 TAC §312.50), when needed.
Click here to enter text.

INSTRUCTIONS FOR PERMIT FOR BENEFICIAL LAND USE OF CLASS B BIOSOLIDS

GENERAL INFORMATION

Purpose of the Application

This form is to be used to:

- Permit a new site for beneficial land use of Class B biosolids;
- Submit a Major Amendment to change acreage or to make any other substantive change to a permitted site for beneficial land use of Class B biosolids; or
- Renew an existing permitted site for beneficial land use of Class B biosolids.

NOTE: If the land application site is within or adjacent to a publicly-owned wastewater treatment plant (WWTP) and the site is owned or operated by the WWTP, the WWTP's existing wastewater discharge permit may be amended to authorize land application of Class B biosolids. To amend the wastewater discharge permit, complete and submit this application form and the Domestic Wastewater Permit Application (TCEQ Form 10054).

Who Should Apply?

This application must be submitted by the site operator. If there is more than one operator, then a co-applicant is required.

When Is The Application Submitted?

For new and amendment applications, the completed application must be submitted at least 180 days before the proposed date of land application. For renewal applications, the completed application must be submitted at least 180 days before the expiration date of the current registration.

Where to Send the Application Form

One original and three copies of the application, including attachments, must be provided to the address below:

<u>Regular U.S. Mail:</u>
TCEQ
ARP Team, MC 148
PO Box 13087
Austin TX 78711-3087

<u>Express Mail or Hand Delivery:</u>
TCEQ
ARP Team, MC 148
Building F Room 2101

12100 Park 35 Circle
Austin TX 78753

TCEQ Contact List

Permit Information and Application Forms:	512-239-4671
Technical Information, Land ApplicationTeam, Attn: Biosolids Group:	512-239-4671
Environmental Law Division:	512-239-0600

Copies of records on file with the TCEQ may be obtained for a minimal fee from the Records Management Office at 512-239-2900.

INSTRUCTIONS FOR FILLING OUT THE APPLICATION FORM

Section 1. Type of Application

Select the appropriate type of application.

For amendment applications, describe the proposed changes.

For existing permits, provide the TCEQ permit number.

Section 2. Application Fee

The permit application fee varies from $1,000 to $5,000, based on the quantity of biosolids to be applied annually under the permit.

Quantity of Biosolids Applied Annually	Application Fee
2,000 dry tons or less	$1,000
2,001 to 5,000 dry tons	$2,000
5,001 to 10,000 dry tons	$3,000
10,001 to 20,000 dry tons	$4,000
20,001 dry tons or more	$5,000

Application fees must be paid by check or money order made payable to the Texas Commission on Environmental Quality. Fees are to be sent under separate cover making reference to the type of application, name of applicant, and permit number of existing permit, and mailed to:

TCEQ
Revenues Section (MC 214)
P.O. Box 13088
Austin, Texas 78711-3088

To verify receipt of payment or any other questions you may have regarding payment of fees to the TCEQ, you may call the Revenues Section, Cashiers Office at (512) 239-0357.

Section 3. Applicant Information

Provide the full legal name of the site operator.

If the site operator is an existing TCEQ customer, provide the customer number (CN) for the site operator. The Customer Number is available at the following website: http://www15.tceq.texas.gov/crpub/. If the site operator is not an existing TCEQ customer, leave blank.

Provide the following contact information for the site operator: mailing address, phone number, fax number, and email address.

Section 4. Co-Applicant Information

If there is more than one operator, then a co-applicant is required. Provide the full legal name of the co-applicant.

If the co-applicant is an existing TCEQ customer, provide the customer number (CN) for the co-applicant. The Customer Number is available at the following website: http://www15.tceq.texas.gov/crpub/. If the co-applicant is not an existing TCEQ customer, leave blank.

Provide the following contact information for the co-applicant: mailing address, phone number, fax number, and email address.

Explain the need for a co-applicant.

Section 5. Application Contact Information

Provide the name and contact information for the person that TCEQ will contact if additional information is needed about this application. Provide one contact for the operator and one contact for the landowner.

Section 6. Permit Contact Information

Provide the name and contact information for two individuals that TCEQ can contact if additional information is needed during the term of the permit.

Section 7. Billing Contact Information

Provide the name and contact information for the person that TCEQ can contact regarding the annual fee invoices.

Section 8. Reporting Contact Information

Provide the name and contact information for the person that TCEQ can contact regarding the annual biosolids land application reports.

Section 9. Notice Information

A. Individual publishing the notices

Provide the name, company name, mailing address, telephone number and fax number of the person that will publish the public notices required during the processing of the application. Only one name can be provided. This individual will be contacted to publish the required public notices in a newspaper of the largest general circulation in the county where the facility is/will be located. This person must be available during the application processing since the first public notice. The "Notice of Receipt of Application and Intent to Obtain a Water Quality Permit" must be published within 30 days of the application being declared Administratively Complete.

B. Method of Receiving Notice Package

Provide the method of receiving the required public notice information. When the application is declared Administratively Complete, the notice package will be sent via the method selected. The notice package includes the TCEQ declaration of completeness, a notice ready for publication, instructions for publishing the notice, a publication affidavit, and a public notice verification form.

C. Contact Person in the Notice

Provide the person's name, company name, mailing address, telephone number and fax number of the one individual that will be identified as the notice contact in the two public notices that are published as part of the permitting process. This individual may be contacted by the public to answer questions about all aspects of the permit application.

D. Public Viewing Location

Provide the name and physical address for the public place where the complete application, draft permit, and Technical Summary/Fact Sheet will be made available for viewing and copying by the general public. Please verify with the proper authority they will make the application available for public viewing and copying. The address must be a physical address. Post office box addresses are not acceptable. The public place must be located within the county in which the facility is/will be located. If the facility is located in more than one county, a public viewing place for each county must be provided.

E. Bilingual Notice Requirement

Bilingual notice may be required for new, major amendment, and renewal applications if an elementary school or middle school nearest to the facility is required to make a bilingual education program available to qualifying students.

The applicant is required to call the bilingual/ESL coordinator at the nearest elementary and middle schools to obtain answers to questions 1. – 4. These questions will determine if an alternative language notice is required.

If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

F. Public Involvement Plan Form
Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit. This form is not required for renewal or minor amendment applications.

Section 10. Regulated Entity (Site) Information

A. Provide the name of the site as known by the public in the area where the site is located.

B. If the site is currently regulated by TCEQ, provide the regulated entity reference number (RN) for the site. The RN is available at the following website: http://www15.tceq.texas.gov/crpub/. If the site is not currently regulated by TCEQ, leave blank.

C. If the location in the existing permit is not correct or if this is a new site, provide the physical address of the site. If a physical address is not available, provide a location description.

D. Provide the county in which the site is located.

E. Provide the latitude and longitude for the site.

F. Provide the name and contact information for the landowner of the application site.

G. Provide the name and contact information for the county judge in each county where the site is located. Attach an additional sheet if the site is located in more than one county.

Section 11. Land Application Information

If the land application site is within or adjacent to a publicly-owned wastewater treatment plant (WWTP) and the site is owned or operated by the WWTP, the WWTP's existing wastewater discharge permit may be amended to authorize land application of biosolids. To amend the wastewater discharge permit, complete and submit this application form and the Domestic Wastewater Permit Application (TCEQ Form 10054).

A. Provide the anticipated date that you plan to start applications on this site. This date must be at least 330 days from the date TCEQ receives this application form.

B. Indicate by a checkmark if the beneficial land use area is within the city limits, within the extraterritorial jurisdiction, or outside the extraterritorial jurisdiction of a city. Provide the city or municipality name in the space provided.

C. Identify the types of wastes that will be land applied at this site.

D. For each source, provide the facility name, TCEQ authorization number, and the location. Add additional rows to the table, if necessary.

E. Provide the total acreage of the property where the application site is located. Include the application area and the buffer zones.

F. Provide the total acreage where biosolids may be applied. Do not include buffer zones.

NOTE: A minimum buffer of 500 feet is required for water wells and surface water

when land application of Class B Biosolids occurs in a county that borders the Gulf of Mexico (Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kenedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy Counties).

Section 12. Miscellaneous Information

A. Provide the name of each person that was previously employed by TCEQ and who was paid for services regarding this application.

B. Identify if the application site is located on Indian lands. If the answer is yes, TCEQ does not have jurisdiction to process this application. Do not send this application to TCEQ. Contact the Land Application Team, Attn: Biosolids Group at 512-239-4671.

C. Identify if any permanent school fund land is affected by this application. If yes, provide the location and potential impacts on the school fund land.

D. Indicate if the site operator or co-applicant(s) owe fees or penalties to TCEQ. If yes, provide the amount owed, the type of fee or penalty, and the account number for fees or the TCEQ Docket number for penalties.

The following TCEQ website will help you determine if you owe any fees or penalties to the TCEQ and how to make a payment: https://www.tceq.texas.gov/agency/fees/delin/index.html. For questions about delinquent fees and penalties, contact the Financial Administration Division, Revenue Section, at 512-239-0354.

NOTE: TCEQ will not declare any application administratively complete or issue a permit if the applicant or co-applicant is delinquent on a fee or penalty.

Section 13. Affected Landowner Information

A. Attach a landowner map or drawing that includes a scale, the applicant's property boundaries, the application area boundaries, the approximate property boundaries of all landowners located within 1/4 mile of the property boundaries. Assign a letter or number to each landowner.

B. Attach a list of landowners that live on land within 1/4 mile of the property boundaries. The list must include the landowner's name and address, and include a cross-reference to the letter or number identified on the landowner map. The applicant may choose to attach a list of all landowners within 1/4 mile of the property boundary, regardless of whether the landowner lives on the land.

C. Identify the format of the landowners list.

D. Provide the source of the landowner's names and mailing addresses. Sources may include City or County Tax Records.

Section 14. Insurance Information

This information is <u>not</u> required for an applicant that is a political subdivision (e.g., city, county, state agency, water district, etc.).
Note: The insurance policies required by this section must be maintained for the duration of the permit which is normally issued for a term of five years.

A. Commercial Liability Insurance

Attach a copy of the certificate of insurance in regard to commercial liability, reflecting total coverage of not less than $3 million per occurrence with an annual aggregate of not less than $3 million, exclusive of legal defense costs. The certificate must be worded identically to the wording specified in 30 TAC §37.9145 (relating to Certificate of Insurance for Commercial Liability) or an endorsement worded identically to the wording specified in 30 TAC §37.9150 (relating to Endorsement for Commercial Liability). The certificate of insurance must be issued by an insurance company authorized to transact business in the State of Texas and that has a rating of A- or better by A.M. Best Company.

B. Environmental Impairment Insurance

Attach a copy of the certificate of insurance in regard to environmental impairment, reflecting total coverage of not less than $3 million per occurrence with a policy limit of not less than $3 million, exclusive of legal defense costs. The certificate must be worded identically to the wording specified in 30 TAC §37.9155 (relating to Certificate of Insurance for Environmental Impairment). The certificate of insurance must be issued by an insurance company authorized to transact business in the State of Texas and that has a rating of A- or better by A.M. Best Company.

Section 15. Maps and Attachments

A. Complete and submit the TCEQ Core Data Form (TCEQ-10400).

B. Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit.

C. Submit an original General Highway (County) Map showing all boundaries of the site area and all areas within 1000 feet of the area boundaries. These can be ordered from the Texas Department of Transportation Map Sales from the following web site: http://www.txdot.gov/travel/county_grid_search.htm

D. Submit a full-sized USGS topographic map (1:24,000 scale). These are available by contacting the Texas Natural Resource Information System at 512-463-8337. The map must show:

- the boundaries of the property(s) being permitted;
- the boundaries of the application area within the property boundaries;
- all areas within ¼ mile of the site (if the site is on the border of the USGS map, the adjoining map is also required); and
- the location of all wells, springs, public water supply intakes, water treatment plants, potable water storage facilities, and wastewater treatment plants on-site and within ¼ mile of the application area (including off-site).

If the land application unit boundaries cannot fit or are too small to depict on the required USGS topographic map, a zoomed-in version must be submitted on a separate 81/2 X 12 map or larger. This map may be a zoomed-in version of the topographic map or an accurately self-generated map.

E. Submit a legible copy of a USDA Natural Resources Conservation Service (NRCS) Soil Map that shows the approximate application area boundaries, the soil legend,

necessary interpretative information, and the location of each grab sample of the composite soil sample(s) taken for analyses. If the specific county is not mapped, have a soil scientist identify the soils.

F. Submit a copy of the Federal Emergency Management Agency (FEMA) Map that shows the approximate application area boundaries, the surrounding area within ¼ mile of the property boundaries, and the appropriate legend.

G. Submit a copy of the nutrient management plan that has been prepared by a certified nutrient management specialist, in accordance with the practice standards of the USDA-NRCS.

H. Submit a copy of the TCEQ transporters registration approval documents.

I. Attach the soil laboratory analysis for the application area. Additional information about collecting and analyzing the soil samples is available at the end of these instructions.

J. Attach a laboratory analysis for each source. Additional information about testing is available at the end of these instructions.

K. Metal and Nutrient Concentrations (Table 1). Use the laboratory analyses to complete Table 1 for each source.

L. Volume Weighted Averages of Metal and Nutrient Concentrations (Table 2). If more than one source of is land applied, complete Table 2.

M. Agronomic Rate Calculations (Appendix A). Determine the agronomic application rate by completing and attaching Appendix A.

N. Pathogen Reduction Requirements (Appendix B). Identify the pathogen reduction alternative for each source by completing and attaching Appendix B.

O. Vector Attraction Reduction Requirements (Appendix C). Identify the vector attraction reduction alternative for each source by completing and attaching Appendix C.

P. On-Site Storage (Appendix D). If on-site storage will occur at the site, complete and attach Appendix D.

Signature Page

A separate signature page must be provided for the site operator, each co-applicant, and the landowner of the application site (if the landowner is different from the site operator and co-applicant). The signature page must bear an original signature and the seal of a notary public. The date signed by the applicant must be the same as the date notarized. The signature page will not be acceptable if the dates are different.

In accordance with 30 Texas Administrative Code §305.44 relating to Signatories to Applications, all applications shall be signed as follows:

For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making

functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

SOIL TESTING INFORMATION

Soil samples shall be taken prior to any application of commercial fertilizer. Do not use a galvanized container as this could give a false reading on zinc. Samples will need to be taken within the same 45 day time-frame each year, or by an approved sampling plan and analyzed within 30 days of sample collection. The initial soil sample for application approval may be taken whenever necessary.

Obtain one composite sample for each soil depth per 80 acres and per uniform soil type (soils with the same characteristics and texture) within the 80 acres, or per approved soil sampling plan. Composite samples shall be comprised of 10 - 15 random sample cores taken from each of the following soil depth zones: 0-6 inches and 6-24 inches.

Soil samples shall be submitted to a soil testing laboratory along with a previous crop history of the site, intended crop growth and yield goal. Soil reports shall include fertilizer recommendations for the crop yield goal. Samples shall be analyzed for the parameters below:

Parameter (7)		**0- 6 "**	**6 -24"**
Nitrate Nitrogen (NO_3-N, mg/kg)	(1)	x	x
Ammonium Nitrogen (NH_4-N, mg/kg)	(1)	x	x
Total Kjeldahl Nitrogen (TKN, mg/kg)	(2)	x	x
Phosphorus (plant available, mg/kg)	(3)	x	x
Potassium (plant available, mg/kg)	(3)	x	x
Sodium (plant available, mg/kg)	(3)	x	x
Magnesium (plant available, mg/kg)	(3)	x	x
Calcium (plant available, mg/kg)	(3)	x	x
Electrical Conductivity	(4)	x	x
Soil Water pH (S.U.)	(5)	x	x
Total Arsenic (mg/kg)	(6)	x	N/A
Total Cadmium (mg/kg)	(6)	x	N/A
Total Chromium (mg/kg)	(6)	x	N/A
Total Copper (mg/kg)	(6)	x	N/A
Total Lead (mg/kg)	(6)	x	N/A
Total Mercury (mg/kg)	(6)	x	N/A
Total Molybdenum (mg/kg)	(6)	x	N/A
Total Nickel (mg/kg)	(6)	x	N/A
Total Selenium (mg/kg)	(6)	x	N/A
Total Zinc (mg/kg)	(6)	x	N/A

1. Determined in a 1 N KCl soil extract (http://soiltesting.tamu.edu/webpages/swftlmethods1209.html).
2. Determined by Kjeldahl digestion or an equivalent accepted procedure. Methods that rely on Mercury as a catalyst are not acceptable.
3. Mehlich III extraction (yields plant-available concentrations) with inductively coupled plasma.
4. Electrical Conductivity (EC) - determine from extract of 2:1 (volume/volume) water/soil mixture and expressed in dS/m (same as mmho/cm).
5. Soil pH must be analyzed by the electrometric method in Test Methods for Evaluating Solid Waste, EPA SW-846, 40 CFR 260.11; method 9045C - determine from extract of 2:1 (volume/volume) water/soil mixture.
6. Analysis for metals in soil must be performed according to methods outlined in Test Methods for Evaluating Solid Waste, EPA SW-846; method 3050.
7. All parameters must be analyzed on a dry weight basis, except Soil Water pH and Electrical Conductivity.

Please be advised that the maximum acceptable soil concentrations of metals are listed below. These rates are based on the maximum cumulative loading rates found in 30 TAC §312.43 Table 2- Cumulative Metal Loading Rate.

Metal	**Soil Concentration Limit (mg/kg)**
Total Arsenic	20.5
Total Cadmium	19.5
Total Chromium	1500
Total Copper	750
Total Lead	150
Total Mercury	8.5
Total Molybdenum	Monitor
Total Nickel	210
Total Selenium	50
Total Zinc	1,400

BIOSOLIDS AND RESIDUALS TESTING INFORMATION

Testing Parameters (dry weight basis) for
Class B Biosolids and Water Treatment Plant Residuals

Nutrients (%)	Metals (mg/kg)	Other
Total Kjeldahl Nitrogen Ammonium-Nitrogen Nitrate-Nitrogen Total Phosphorus Total Potassium	Total Arsenic Total Cadmium Total Chromium Total Copper Total Lead Total Mercury Total Molybdenum Total Nickel Total Selenium Total Zinc	Total PCBs

1. If accepting from multiple sources,
   a) perform a new analysis on the mixed material if blended before land application, or
   b) use Table 2 of the application form to determine the volume weighted average (mass balance) which will accurately reflect the amount of metals contributed by each facility.
2. The metal and nutrient tests shall be used to calculate the Maximum Biosolids Application Rate and Site Life in Appendix A of the application form. These tests and calculations will also be required in an annual report for the permitted site.
3. Copies of all laboratory test data with Quality Control (QA/QC) and Chain of Custody sheets must be kept on file at the site operator's place of business for at least five (5) years and can be requested by TCEQ at any time.
4. Include the most recent full Toxicity Characteristic Leaching Procedure (TCLP) analysis for each wastewater treatment plant source (Appendix E).

Maximum Metal Loadings & Concentrations

If background soil concentrations exceed the values listed below, then land application is only possible if biosolids concentrations are below the concentrations found in Table 3 of 30 TAC §312.43(b)(3).

If the concentration of any metal in the biosolids exceeds the metal ceiling concentration, then the land application of that biosolids is prohibited.

Pollutant	Cumulative Loading (lbs/acre)	Table 3 §312.43(b)(3) (mg/kg)	Metal Ceiling Concentration (mg/kg)
Arsenic	36	41	75
Cadmium	35	39	85
Chromium	2,677	1,200	3,000

Pollutant	Cumulative Loading (lbs/acre)	Table 3 §312.43(b)(3) (mg/kg)	Metal Ceiling Concentration (mg/kg)
Copper	1,339	1,500	4,300
Lead	268	300	840
Mercury	15	17	57
Molybdenum	Monitor	Monitor	75
Nickel	375	420	420
Selenium	89	36	100
Zinc	2,500	2,800	7,500

APPENDIX E

Toxicity Characteristic Leaching Procedure (TCLP) Regulatory Levels

METALS	TCLP Regulatory Level, mg/L	EPA Hazardous Waste Number	Recommended Test Method
Arsenic	5.0	D004	7061
Barium	100.0	D005	7080
Cadmium	1.0	D006	7130
Chromium	5.0	D007	7190
Lead	5.0	D008	7420
Mercury	0.2	D009	7471
Selenium	1.0	D010	7741
Silver	5.0	D011	7760

VOLATILE ORGANICS	TCLP Regulatory Level, mg/L	EPA Hazardous Waste Number	Recommended Test Method
Benzene	0.5	D018	8260B
Carbon Tetrachloride	0.5	D019	8260B
Chlorobenzene	100.0	D021	8260B
Chloroform	6.0	D022	8260B
1,4-Dichlorobenzene	7.5	D027	8260B
1,2-Dichloroethane	0.5	D028	8260B
1,1-Dichloroethylene	0.7	D029	8260B
Methyl Ethyl Ketone	200.0	D035	8260B
Tetrachloroethylene	0.7	D039	8260B
Trichloroethylene	0.5	D040	8260B
Vinyl Chloride	0.2	D043	8260B

SEMIVOLATILE ORGANICS	TCLP Regulatory Level, mg/L	EPA Hazardous Waste Number	Recommended Test Method
o-Cresol *	200	D023	8270C
m-Cresol *	200	D024	8270C
p-Cresol *	200	D025	8270C
Cresol *	200	D026	8270C
2,4-Dinitrotoluene	0.13	D030	8270C
Hexachlorobenzene	0.13	D032	8270C
Hexachlorobutadiene	0.5	D033	8270C
Hexachloroethane	3.0	D034	8270C
Nitrobenzene	2.0	D036	8270C
Pentachlorophenol	100.0	D037	8270C
Pyridine	5.0	D038	8270C
2,4,5-Trichlorophenol	400.0	D041	8270C
2,4,6-Trichlorophenol	2.0	D042	8270C

ORGANOCHLORINE PESTICIDES	TCLP Regulatory Level, mg/L	EPA Hazardous Waste Number	Recommended Test Method
Chlordane	0.03	D020	8081A
Endrin	0.02	D012	8081A
Heptachlor (and its Epoxide)	0.008	D031	8081A
Lindane	0.4	D013	8081A
Methoxychlor	10.0	D014	8081A
Toxaphene	0.5	D015	8081A

CHLOROPHENOXY ACID HERBICIDES	TCLP Regulatory Level, mg/L	EPA Hazardous Waste Number	Recommended Test Method
2,4-D	10.0	D016	8150
2,4,5-TP (Silvex)	1.0	D017	8150

* If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used.

Reference: 40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

ATTACHMENT A

CORE DATA FORM

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)	
☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)	
☒ Renewal (*Core Data Form should be submitted with the renewal form*)	☐ Other

2. Customer Reference Number (*if issued*)	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** (*if issued*)
CN 600743074		**RN 101720936**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	
☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).		
6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*)	*If new Customer, enter previous Customer below:*	
City of Burnet		

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

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

12. Number of Employees	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher	☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*			
☐ Owner	☐ Operator	☒ Owner & Operator	☐ Other:
☐ Occupational Licensee	☐ Responsible Party	☐ VCP/BSA Applicant	

15. Mailing Address:	P. O. Box 1369							
	City	Burnet	**State**	TX	**ZIP**	78611	**ZIP + 4**	

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

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** (*if applicable*)

(512) 715-3508		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Burnet Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	301 Waste Water Plant Drive							
	City	Burnet	**State**	TX	**ZIP**	78611	**ZIP + 4**	
24. County	Burnet							

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

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
Burnet			TX	78611	
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).					
27. Latitude (N) In Decimal:	30.739645		**28. Longitude (W) In Decimal:**	-98.225584	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Treatment of municipal wastewater

34. Mailing Address:	**P. O. Box 1369**							
	City	**Burnet**	**State**	**TX**	**ZIP**	**78611**	**ZIP + 4**	
35. E-Mail Address:	**rharrison@cityofburnet.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 470-3003		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010793002			

SECTION IV: Preparer Information

40. Name:	Steve Barry, P.E.	**41. Title:**	Project Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281 **)** 363-4039		**( ) -**	sbarry@quiddity.com

SECTION V: Authorized Signature

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

Company:	City of Burnet	**Job Title:**	City Manager
Name *(In Print):*	David Vaughn	**Phone:**	**(** 512 **)** 715- **3208**
Signature:		**Date:**	

ATTACHMENT H

FINAL EFFLUENT ANALYSIS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

Email information for report date:

7/24/24 16:20

H022266

BURNET, CITY OF

Attn: Richard Harrison

aburdell@cityofburnet.com

P.O. Box 1369

Burnet, TX 78611

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect ™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area)
samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business,
June M. Brien
Executive Technical Director

BRYAN FACILITY
635 Phil Gramm Boulevard
Bryan, TX 77807
Phone: (979) 778-3707
Fax: (979) 778-3193

AQUA-TECH LABORATORIES

AUSTIN FACILITY
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Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

NEL	TNI accredited parameter.
ANR	Accreditation not offered by the State of Texas.
DWP	Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program.
INF	Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

Certificate: T104704371-23-27

NELAP ACCREDITED TNI LABORATORY

TCEQ Lab ID T104704371

General Definitions:

NR	Not Reported.
RPD	Relative Percent Difference.
% R	Percent Recovery.
dry	Results with the "dry" unit designation are reported on a "dry weight" basis.
SQL	The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
Adj MDL	The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
MDL	The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by:

June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

corp@aqua-techlabs.com www.aqua-techlabs.com

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Analytical Report

BURNET, CITY OF

Report Printed: **7/24/24** **16:20**

H022266

Burnet WWTP Effluent Permit Renewal

Collected: 07/09/24 08:50 by Mark Asher
Received: 07/09/24 14:30 by Mark Asher

Type: Grab
Matrix: Non Potable
C-O-C #: N/A

Lab ID# H022266-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
Field Parameters											
Field pH	**7.8**	pH Units		0.01	0.01	0.1	*Austin*	At Collection	SM4500-H+ B 2011	M179615	*ANR*
Dissolved Oxygen	**6.5**	mg/L		0.1	0.1	0.1	*Austin*	At Collection	SM4500 O G 2011	M179615	*ANR*
Temperature	**27.9**	Deg. C		0.1	0.1	0.1	*Austin*	At Collection	SM2550 B 2000	M179615	*ANR*
Total Residual Chlorine	**0.20**	mg Cl as CL2/L			0.10	0.10	*Calc*	At Collection	SM4500-Cl F 2011	[CALC]	*ANR*
General Chemistry											
Carbonaceous BOD (5 day)	**<1**	mg/L		1	1	1	*Austin*	07/10/24 06:10 BAL	SM5210 B 2016	M179752	*NEL*
Total Suspended Solids	**<1**	mg/L		1	1	1	*Austin*	07/10/24 11:05 BEB	SM2540 D 2015	M179791	*NEL*
Total Dissolved Solids	**682**	mg/L		25.0	25.0	25.0	*Austin*	07/12/24 16:57 SR	SM2540 C 2015	M179943	*NEL*
Ammonia as N	**<0.05**	mg/L		0.05	0.05	0.05	*Bryan*	07/11/24 11:35 KMA	SM4500-NH3 G 2011	M179845	*NEL*
Total Kjeldahl Nitrogen as N	**0.99**	mg/L		0.13	0.13	0.20	*Bryan*	07/17/24 12:20 KMA	EPA 351.2 R2.0	M179830	*NEL*
Nitrate as N	**4.5**	mg/L			0.17	0.20	*Calc*	07/16/24 11:12 MSA	SM4500-NO3-F 2011	[CALC]	*NEL*
Nitrite as N	**0.01**	mg/L		0.002	0.002	0.01	*Austin*	07/10/24 10:00 MSA	SM4500 NO2- B 2011	M179784	*NEL*
Nitrate/Nitrite as N	**4.5**	mg/L		0.02	0.17	0.20	*Bryan*	07/16/24 11:12 KMA	SM4500-NO3-F 2011	M180032	*ANR*
Total Alkalinity as CaCO3 (pH4.5)	**250**	mg/L		5.00	20.0	20.0	*Austin*	07/10/24 13:10 MSA	SM2320 B 2011	M179802	*DWP*
Oil & Grease (HEM)	**<5.0**	mg/L		4.4	5.0	5.0	*Bryan*	07/16/24 09:58 HDH	EPA 1664B	M180028	*NEL*
Chloride	**190**	mg/L		0.60	2.41	20.0	*Austin*	07/15/24 11:00 MSA	SM4500-Cl- B 2011	M179993	*NEL*
Sulfate as SO4(2-)	**36.5**	mg/L		2.63	10.5	20.0	*Austin*	07/15/24 10:00 BEB	ASTM D0516-16	M180004	*NEL*
Microbiological Analyses											
E. Coli	**<1.0**	MPN/100 mL		1.0	1.0	1.0	*Austin*	07/09/24 15:16 ACG	SM9223 B 2004	M179739	*NEL*

Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)											
Phosphorus-Total	**6.31**	mg/L		0.082	0.041	0.050	*Austin*	07/15/24 18:06 KT	EPA 200.7 R4.4	M179816	*NEL*

Explanation of Notes

BOD-07	Optional second BOD/CBOD GG was outside expected range. Results accepted on one required passing GG.
RPD-02	RPD was not calculated in LIMS due to one or both of the sample / duplicate pair being less than the MRL.
SL-01	The dried residue did not yield between 2.5 and 200 mg as specified in the method. Due to holding time constraints or insufficient sample volume, the sample cannot be reanalyzed.

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Analytical Report

BURNET, CITY OF

Report Printed: **7/24/24** **16:20**

H022266

Field Parameters - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Chlorine Residual, Total - SM4500-Cl F 2011														*Austin*
Duplicate	0.3	mg/L		0.1	0.1	07/09/24 08:50 MSA		0.3			0.00	10.2	M179615	
Dissolved Oxygen - SM4500 O G 2011														*Austin*
Duplicate	6.5	mg/L		0.1	0.1	07/09/24 08:50 MSA		6.5			0.306	3.73	M179615	
Field pH - SM4500-H+ B 2011														*Austin*
Duplicate	7.8	pH Units		0.01	0.1	07/09/24 08:50 MSA		7.8			0.00	0.551	M179615	
Temperature - SM2550 B 2000														*Austin*
Duplicate	27.9	Deg. C		0.1	0.1	07/09/24 08:50 MSA		27.9			0.00	2.48	M179615	

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011														*Bryan*
Initial Cal Check	1.01	mg/L				07/11/24 11:35 KMA	1.00		101	90 - 110			2407142	
Low Cal Check	0.04	mg/L				07/11/24 11:35 KMA	0.0500		70.0	70 - 130			2407142	
Blank	<0.05	mg/L		0.05	0.05	07/11/24 11:35 KMA							M179845	
LCS	0.46	mg/L		0.05	0.05	07/11/24 11:35 KMA	0.500		92.2	85 - 115			M179845	
LCS Dup	0.46	mg/L		0.05	0.05	07/11/24 11:35 KMA	0.500		92.6	85 - 115	0.433	20	M179845	
Matrix Spike	0.52	mg/L		0.05	0.05	07/11/24 11:35 KMA	0.500	<0.05	103	70 - 130			M179845	
Matrix Spike Dup	0.49	mg/L		0.05	0.05	07/11/24 11:35 KMA	0.500	<0.05	98.6	70 - 130	4.56	20	M179845	
Carbonaceous BOD (5 day) - SM5210 B 2016														*Austin*
Diln Water Blk	<0.20	mg/L		1	1	07/10/24 06:10 BAL		0.0		< or = 0.2 mg/L			2407107	
GGA	192	mg/L		1	1	07/10/24 06:10 BAL	198		97.0	84.6 - 115.4			2407107	
GGA	179	mg/L		1	1	07/10/24 06:10 BAL	198		90.4	84.6 - 115.4			2407107	
GGA	166	mg/L	*BOD-07*	1	1	07/10/24 06:10 BAL	198		*83.8*	84.6 - 115.4			2407107	
Seed Blank	<1	mg/L		1	1	07/10/24 06:10 BAL							2407107	
Seed Blank	<1	mg/L		1	1	07/10/24 06:10 BAL							2407107	
Seed Blank	<1	mg/L		1	1	07/10/24 06:10 BAL							2407107	
Duplicate	3	mg/L		1	1	07/10/24 06:10 BAL		3			14.6	47.7	M179752	

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Analytical Report

BURNET, CITY OF

Report Printed: **7/24/24** **16:20**

H022266

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Chloride - SM4500-Cl- B 2011														*Austin*
Initial Cal Check	49.8	mg/L				07/15/24 11:00 MSA	50.0		99.5	90 - 110			2407186	
Low Cal Check	5.11	mg/L				07/15/24 11:00 MSA	4.95		103	70 - 130			2407186	
Blank	<5.00	mg/L		0.60	5.00	07/15/24 11:00 MSA							M179993	
LCS	20.9	mg/L		0.60	5.00	07/15/24 11:00 MSA	19.8		106	90 - 110			M179993	
LCS Dup	20.5	mg/L		0.60	5.00	07/15/24 11:00 MSA	19.8		103	90 - 110	2.25	5.86	M179993	
Matrix Spike	270	mg/L		2.41	20.0	07/15/24 11:00 MSA	79.2	190	101	83.4 - 113			M179993	
Matrix Spike Dup	268	mg/L		2.41	20.0	07/15/24 11:00 MSA	79.2	190	98.6	83.4 - 113	2.35	10.7	M179993	
MRL Check	5.11	mg/L		0.60	5.00	07/15/24 11:00 MSA	4.95		103	70 - 130			M179993	
Mn Interference - SM4500-Cl F 2011														*Austin*
Duplicate	0.3	mg/L		0.1	0.1	07/16/24 08:49 BAL		0.3			0.00	7.47	M180030	
Nitrate/Nitrite as N - SM4500-NO3-F 2011														*Bryan*
Initial Cal Check	1.0	mg/L				07/16/24 11:12 KMA	0.959		104	90 - 110			2407203	
Low Cal Check	0.02	mg/L				07/16/24 11:12 KMA	0.0200		110	70 - 130			2407203	
Blank	<0.02	mg/L		0.02	0.02	07/16/24 11:12 KMA							M180032	
LCS	0.49	mg/L		0.02	0.02	07/16/24 11:12 KMA	0.500		98.4	92.6 - 108			M180032	
LCS Dup	0.49	mg/L		0.02	0.02	07/16/24 11:12 KMA	0.500		98.8	92.6 - 108	0.406	2.2	M180032	
Matrix Spike	15	mg/L		0.17	0.20	07/16/24 11:12 KMA	5.00	9.9	108	79.4 - 122			M180032	
Matrix Spike Dup	15	mg/L		0.17	0.20	07/16/24 11:12 KMA	5.00	9.9	108	79.4 - 122	0.186	7.62	M180032	
Nitrite as N - SM4500 NO2- B 2011														*Austin*
	0.08	mg/L				07/10/24 10:00 MSA	0.0740		102	90 - 110			2407123	
Blank	<0.01	mg/L		0.002	0.01	07/10/24 10:00 MSA							M179784	
LCS	0.08	mg/L		0.002	0.01	07/10/24 10:00 MSA	0.0800		102	90 - 110			M179784	
LCS Dup	0.08	mg/L		0.002	0.01	07/10/24 10:00 MSA	0.0800		104	90 - 110	1.74	10	M179784	
Matrix Spike	0.09	mg/L		0.002	0.01	07/10/24 10:00 MSA	0.0800	0.01	94.2	57 - 116			M179784	
Matrix Spike Dup	0.09	mg/L		0.002	0.01	07/10/24 10:00 MSA	0.0800	0.01	94.6	57 - 116	0.475	10	M179784	
MRL Check	0.01	mg/L		0.002	0.01	07/10/24 10:00 MSA	0.0100		95.2	70 - 130			M179784	
Initial Cal Check	0.08	mg/L				10/06/23 11:00 MSA	0.0800		106	90 - 110			2310075	
Oil & Grease (HEM) - EPA 1664B														*Bryan*
Blank	<5.0	mg/L		5.0	5.0	07/16/24 09:58 HDH							M180028	
LCS	35.2	mg/L		4.9	4.9	07/16/24 09:58 HDH	39.1		90.0	78 - 114			M180028	
LCS Dup	39.8	mg/L		4.9	4.9	07/16/24 09:58 HDH	39.4		101	78 - 114	11.5	200	M180028	
Matrix Spike	38.2	mg/L		4.9	4.9	07/16/24 09:58 HDH	39.3	<4.9	97.3	78 - 114			M180028	

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Analytical Report

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H022266

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Sulfate as SO4(2-) - ASTM D0516-16														*Austin*
Initial Cal Check	30.6	mg/L				06/24/24 09:03 BEB	30.0		102	90 - 110			2406303	
Low Cal Check	4.34	mg/L				06/24/24 09:03 BEB	5.00		86.8	70 - 130			2406303	
Initial Cal Check	30.3	mg/L				07/15/24 10:00 BEB	30.0		101	90 - 110			2407191	
Low Cal Check	3.76	mg/L				07/15/24 10:00 BEB	5.00		75.2	70 - 130			2407191	
Blank	<5.00	mg/L		2.63	5.00	07/15/24 10:00 BEB							M180004	
Duplicate	40.5	mg/L		10.5	20.0	07/15/24 10:00 BEB		37.8			6.72	11.8	M180004	
LCS	8.63	mg/L		2.63	5.00	07/15/24 10:00 BEB	10.0		86.3	85 - 115			M180004	
LCS Dup	8.57	mg/L		2.63	5.00	07/15/24 10:00 BEB	10.0		85.7	85 - 115	0.644	13.5	M180004	
Matrix Spike	78.2	mg/L		10.5	20.0	07/15/24 10:00 BEB	40.0	37.8	101	67.7 - 129			M180004	
Matrix Spike Dup	79.3	mg/L		10.5	20.0	07/15/24 10:00 BEB	40.0	37.8	104	67.7 - 129	2.90	15	M180004	
Total Alkalinity as CaCO3 (pH4.5) - SM2320 B 2011														*Austin*
Initial Cal Check	6.86	mg/L				07/10/24 13:10 MSA	6.86		100	97 - 103			2407131	
Initial Cal Check	9.14	mg/L				07/10/24 13:10 MSA	9.18		99.6	97 - 103			2407131	
Duplicate	121	mg/L		20.0	20.0	07/10/24 13:10 MSA		119			1.67	5.52	M179802	
LCS	76.8	mg/L		20.0	20.0	07/10/24 13:10 MSA	75.6		102	95.5 - 105			M179802	
LCS Dup	77.1	mg/L		20.0	20.0	07/10/24 13:10 MSA	75.6		102	95.5 - 105	0.364	4.76	M179802	
MRL Check	20.4	mg/L		20.0	20.0	07/10/24 13:10 MSA	18.9		108	70 - 130			M179802	
Total Dissolved Solids - SM2540 C 2015														*Austin*
Blank	<25.0	mg/L		25.0	25.0	07/12/24 16:57 SR							M179943	
Duplicate	578	mg/L		25.0	25.0	07/12/24 16:57 SR		586			1.37	11.2	M179943	
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0														*Bryan*
Initial Cal Check	3.45	mg/L				07/17/24 12:20 KMA	3.38		102	90 - 110			2407217	
Low Cal Check	0.23	mg/L				07/17/24 12:20 KMA	0.200		113	70 - 130			2407217	
Blank	<0.20	mg/L		0.13	0.20	07/17/24 12:20 KMA							M179830	
LCS	4.19	mg/L		0.13	0.20	07/17/24 12:20 KMA	4.00		105	87.4 - 119			M179830	
LCS Dup	4.21	mg/L		0.13	0.20	07/17/24 12:20 KMA	4.00		105	87.4 - 119	0.333	5.44	M179830	
Matrix Spike	98.0	mg/L		2.60	4.00	07/17/24 12:20 KMA	40.0	64.3	84.3	62.1 - 130			M179830	
Matrix Spike Dup	97.6	mg/L		2.60	4.00	07/17/24 12:20 KMA	40.0	64.3	83.1	62.1 - 130	1.43	17.5	M179830	
Total Suspended Solids - SM2540 D 2015														*Austin*
Blank	<1	mg/L		1	1	07/10/24 11:05 BEB							M179791	
Duplicate	<1	mg/L	*RPD-02, SL-01*	1	1	07/10/24 11:05 BEB		<1				20	M179791	
Reference	98	mg/L		10	10	07/10/24 11:05 BEB	101		97.0	80 - 120			M179791	

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H022266

Metals (Total) - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4													*Austin*
Blank	<0.050	mg/L		0.041	0.050	07/15/24 17:21 KT							M179816
LCS	2.48	mg/L		0.041	0.050	07/15/24 17:23 KT	2.50		99.1	84.5 - 115.4			M179816
LCS Dup	2.48	mg/L		0.041	0.050	07/15/24 17:26 KT	2.50		99.3	84.5 - 115.4	0.222	20	M179816
Duplicate	0.238	mg/L		0.041	0.050	07/15/24 17:28 KT		0.230			3.64	20	M179816
Matrix Spike	2.88	mg/L		0.041	0.050	07/15/24 17:31 KT	2.50	0.230	106	69.5 - 130.4			M179816

Microbiological Analyses - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	Log10 Comparison Control Limit	Batch
E. Coli - SM9223 B 2004													*Austin*
Blank	<1.0	MPN/100 mL		1.0	1.0	07/09/24 15:16 ACG							M179739
Dup Log10 Range		MPN/100 mL		1.0	1.0	07/09/24 15:16 ACG					0.000		M179739
Duplicate	<1.0	MPN/100 mL		1.0	1.0	07/09/24 15:16 ACG		<1.0				0.5	M179739

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
H022266-01										
Ammonia as N	SM4500-NH3 G 2011	7/11/24 9:42 KMA	Bryan	B	10.0	mL	10.0	mL	1	M179845
Carbonaceous BOD (5 day)	SM5210 B 2016	7/10/24 6:10 BAL	Austin	C	300	mL	300	mL	1	M179752
Chloride	SM4500-Cl- B 2011	7/15/24 11:00 MSA	Austin	D	25.0	mL	100	mL	1	M179993
E. Coli	SM9223 B 2004	7/9/24 15:02 BAL	Austin	E	100	N/A	100	N/A	1	M179739
Nitrate/Nitrite as N	SM4500-NO3-F 2011	7/16/24 9:37 KMA	Bryan	B	1.00	mL	10.0	mL	1	M180032
Nitrite as N	SM4500 NO2- B 2011	7/10/24 10:00 MSA	Austin	G	25.0	mL	25.0	mL	1	M179784
Oil & Grease (HEM)	EPA 1664B	7/16/24 9:58 HDH	Bryan	H	999	mL	1000	mL	1	M180028
Phosphorus-Total	EPA 200.7 R4.4	7/10/24 16:26 KT	Austin	K	50.0	mL	25.0	mL	1	M179816
Sulfate as SO4(2-)	ASTM D0516-16	7/15/24 10:00 BEB	Austin	D	25.0	mL	100	mL	1	M180004
Total Alkalinity as CaCO3 (pH4.5)	SM2320 B 2011	7/10/24 13:10 MSA	Austin	A	50.0	mL	200	mL	1	M179802
Total Dissolved Solids	SM2540 C 2015	7/12/24 16:57 SR	Austin	D	100	mL	100	mL	1	M179943
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	7/11/24 7:39 CTG	Bryan	B	25.0	mL	25.0	mL	1	M179830
Total Suspended Solids	SM2540 D 2015	7/10/24 11:05 BEB	Austin	L	1000	mL	1000	mL	1	M179791

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H022266

Chain-of-Custody Summary

The following record summarizes custody for work orders sampled by Aqua-Tech Laboratories, Inc. personnel on route.

Original signatures are kept on file by Aqua-Tech Laboratories, Inc. and are available upon request.

WORK ORDER H022266

Cooler ID	Temperature °C	Condition Good?	On Ice?	Preservation Correct?	Custody Maintained by ATL?	
B012	4.3	Yes	Yes	Yes	Yes	See comments below or comments and qualifiers with analytical results explaining any "No" answers.

H022266-01 Grab Sampling Begun: 7/9/24 8:50 Sampling Ended: 7/9/24 8:50

Container & Description		pH Checks / Comments	Container & Description		pH Checks / Comments	Container & Description		pH Checks / Comments
A	ALK 0.25LP		B	AMM NO3 TKN 0.25LP H2SO4	pH <2	C	CBOD 1LP	
D	CL SO4 TDS 1LP		E	Ecoli 0.1L StP Na2S2O3		F	Mn Corr 0.25 LP	
G	NO2 0.25LP		H	OG - 1LG Amber HCl		I	OG - 1LG Amber HCl	
J	OG pH Chk - 1LP HCl	pH <2	K	P 0.1LP H2SO4	pH <2	L	TSS 2LP	

Sampled & Submitted to Lab by: Mark Asher (Route Driver) Received: 7/9/24 14:30 By Mark Asher (Austin)

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2317694	*H023561-01*	07/16/2024	09:00:00	07/18/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Client supplied H2SO4 Amber Glass
Bottle 06 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 07 Client supplied H2SO4 Amber Glass
Bottle 08 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1129104) Volume: 6.00000 mL <== Derived from 05 (6 ml)
Bottle 09 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1129224) Volume: 10.00000 mL <== Derived from 06 (5 ml)
Bottle 10 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1129316) Volume: 10.00000 mL <== Derived from 06 (5 ml)
Bottle 11 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1129316) Volume: 10.00000 mL <== Derived from 06 (5 ml)
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1129316) Volume: 10.00000 mL <== Derived from 06 (5 ml)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1129458) Volume: 10.00000 mL <== Derived from 04 (994 ml)
Bottle 14 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1129683) Volume: 1.00000 mL <== Derived from 01 (992 ml)
Bottle 15 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1129691) Volume: 1.00000 mL <== Derived from 01 (992 ml)
Bottle 16 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1129698) Volume: 1.00000 mL <== Derived from 01 (992 ml)
Bottle 17 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1129702) Volume: 1.00000 mL <== Derived from 01 (992 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1129972) Volume: 5.00000 mL <== Derived from 03 (1003 ml)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1129976) Volume: 1.00000 mL <== Derived from 02 (1013 ml)
Bottle 20 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130653) Volume: 1.00000 mL <== Derived from 05 (939 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	15	1129691	07/22/2024	1130626	07/24/2024
EPA 608.3	17	1129702	07/22/2024	1130619	07/24/2024
EPA 615	13	1129458	07/22/2024	1131094	07/30/2024
EPA 632	14	1129683	07/22/2024	1130531	07/25/2024
EPA 604.1	18	1129972	07/23/2024	1130677	07/26/2024
EPA 617	15	1129691	07/22/2024	1130622	07/24/2024
EPA 625.1	19	1129976	07/23/2024	1131027	07/30/2024
EPA 614	16	1129698	07/22/2024	1130106	07/24/2024
ASTM D7065-11	20	1130653	07/29/2024	1130831	07/29/2024
SM 4500-CN^{-} G-2016			07/24/2024		07/24/2024
SM 4500-CN^{-} G-2016	10	1129316	07/22/2024	1129909	07/24/2024
SM 4500-CN^{-} E-2016	09	1129224	07/19/2024	1129912	07/24/2024
EPA 420.4 1	08	1129104	07/19/2024	1129506	07/22/2024
EPA 622	16	1129698	07/22/2024	1130099	07/24/2024

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RESULTS

Sample Results

2317694 **H023561-01** Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

Prepared: 07/31/2024 16:20:00 Analyzed 07/31/2024 16:20:00 WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Check Limits	Completed					

ASTM D7065-11 Prepared: 1130653 07/29/2024 08:45:00 Analyzed 1130831 07/29/2024 20:49:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nonylphenol	<31.9	ug/L	31.9	SD	25154-52-3	20

EPA 420.4 1 Prepared: 1129104 07/19/2024 09:21:23 Analyzed 1129506 07/22/2024 13:22:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	<0.005	mg/L	0.005			08

EPA 604.1 Prepared: 1129972 07/23/2024 15:35:00 Analyzed 1130677 07/26/2024 15:26:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<2.49	ug/L	2.49		70-30-4	18

EPA 608.3 Prepared: 1129691 07/22/2024 15:00:00 Analyzed 1130626 07/24/2024 20:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.0101	ug/L	0.0101		72-54-8	15
NELAC	4,4-DDE	0.00709	ug/L	0.0101	J	72-55-9	15
NELAC	4,4-DDT	<0.0101	ug/L	0.0101		50-29-3	15
NELAC	Aldrin	<0.010	ug/L	0.010		309-00-2	15
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0101	ug/L	0.0101		319-84-6	15
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0101	ug/L	0.0101		319-85-7	15
NELAC	Chlordane	<0.200	ug/L	0.200		57-74-9	15
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0101	ug/L	0.0101		319-86-8	15
NELAC	Dieldrin	<0.0101	ug/L	0.0101		60-57-1	15

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2317694 H023561-01 Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

EPA 608.3 Prepared: 1129691 07/22/2024 15:00:00 Analyzed 1130626 07/24/2024 20:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	15
NELAC	Endosulfan II (beta)	<0.0101	ug/L	0.0101		33213-65-9	15
NELAC	Endosulfan sulfate	<0.0101	ug/L	0.0101		1031-07-8	15
NELAC	Endrin	<0.0101	ug/L	0.0101		72-20-8	15
NELAC	Endrin aldehyde	<0.0101	ug/L	0.0101		7421-93-4	15
NELAC	Gamma-BHC(Lindane)	<0.0101	ug/L	0.0101		58-89-9	15
NELAC	Heptachlor	<0.010	ug/L	0.010		76-44-8	15
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	15
NELAC	Toxaphene	<0.202	ug/L	0.202		8001-35-2	15

EPA 608.3 Prepared: 1129702 07/22/2024 15:00:00 Analyzed 1130619 07/24/2024 20:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.204	ug/L	0.204	X	12674-11-2	17
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	17
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	17
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	17
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	17
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	17
NELAC	PCB-1260	<0.200	ug/L	0.200		11096-82-5	17
NELAC	PCB-1262	<0.202	ug/L	0.202		37324-23-5	17
NELAC	PCB-1268	<0.202	ug/L	0.202		11100-14-4	17

EPA 614 Prepared: 1129698 07/22/2024 13:00:00 Analyzed 1130106 07/24/2024 21:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0504	ug/L	0.0504		86-50-0	16
NELAC	Demeton	<0.0504	ug/L	0.0504		8065-48-3	16
NELAC	Diazinon	<0.0504	ug/L	0.0504		333-41-5	16
NELAC	Malathion	<0.0504	ug/L	0.0504		121-75-5	16
NELAC	Parathion, ethyl	<0.0504	ug/L	0.0504		56-38-2	16
NELAC	Parathion, methyl	<0.050	ug/L	0.050		298-00-0	16

EPA 615 Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1131094 07/30/2024 22:07:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Printed: 08/01/2024

2317694 H023561-01 Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

EPA 615 Prepared: 1129458 07/22/2024 14:40:00 Analyzed 1131094 07/30/2024 22:07:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.503	ug/L	0.503	S	94-75-7	13
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	13

EPA 617 Prepared: 1129691 07/22/2024 15:00:00 Analyzed 1130622 07/24/2024 20:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.0504	ug/L	0.0504	X	115-32-2	15
z	Methoxychlor	<0.0101	ug/L	0.0101		72-43-5	15
z	Mirex	<0.0101	ug/L	0.0101		2385-85-5	15

EPA 622 Prepared: 1129698 07/22/2024 13:00:00 Analyzed 1130099 07/24/2024 21:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	16

EPA 625.1 Prepared: 1129976 07/23/2024 14:45:00 Analyzed 1131027 07/30/2024 02:25:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<0.987	ug/L	0.987		95-94-3	19
NELAC	1,2,4-Trichlorobenzene	<0.987	ug/L	0.987		120-82-1	19
NELAC	1,2-Dichlorobenzene	<0.987	ug/L	0.987		95-50-1	19
NELAC	1,2-DPH (as azobenzene)	<0.987	ug/L	0.987		122-66-7	19
NELAC	1,3-Dichlorobenzene	<0.987	ug/L	0.987		541-73-1	19
NELAC	1,4-Dichlorobenzene	<0.987	ug/L	0.987		106-46-7	19
NELAC	2,4,5-Trichlorophenol	<0.987	ug/L	0.987		95-95-4	19
NELAC	2,4,6-Trichlorophenol	<0.987	ug/L	0.987		88-06-2	19
NELAC	2,4-Dichlorophenol	<0.987	ug/L	0.987		120-83-2	19
NELAC	2,4-Dimethylphenol	<2.37	ug/L	2.37	S	105-67-9	19
NELAC	2,4-Dinitrophenol	<8.88	ug/L	8.88		51-28-5	19
NELAC	2,4-Dinitrotoluene	<3.46	ug/L	3.46		121-14-2	19
NELAC	2,6-Dinitrotoluene	<0.987	ug/L	0.987		606-20-2	19
NELAC	2-Chloronaphthalene	<0.987	ug/L	0.987		91-58-7	19
NELAC	2-Chlorophenol	<0.987	ug/L	0.987		95-57-8	19
NELAC	2-Methylphenol (o-Cresol)	<5.13	ug/L	5.13		95-48-7	19
NELAC	2-Nitrophenol	<0.987	ug/L	0.987		88-75-5	19

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John Brien
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Bryan, TX 77807-9104

Printed: 08/01/2024

2317694 H023561-01 Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

EPA 625.1 Prepared: 1129976 07/23/2024 14:45:00 Analyzed 1131027 07/30/2024 02:25:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.12	ug/L	6.12		MEPH34	19
NELAC	3,3'-Dichlorobenzidine	<4.94	ug/L	4.94		91-94-1	19
NELAC	4,6-Dinitro-2-methylphenol	<7.90	ug/L	7.90		534-52-1	19
NELAC	4-Bromophenyl phenyl ether	<0.987	ug/L	0.987		101-55-3	19
NELAC	4-Chlorophenyl phenyl ethe	<0.987	ug/L	0.987		7005-72-3	19
NELAC	4-Nitrophenol	<0.987	ug/L	0.987		100-02-7	19
NELAC	Acenaphthene	<0.987	ug/L	0.987		83-32-9	19
NELAC	Acenaphthylene	<0.987	ug/L	0.987		208-96-8	19
z	Aniline	<0.987	ug/L	0.987	S	62-53-3	19
NELAC	Anthracene	<0.987	ug/L	0.987		120-12-7	19
NELAC	Benzidine	<19.7	ug/L	19.7	D	92-87-5	19
NELAC	Benzo(a)anthracene	<0.987	ug/L	0.987		56-55-3	19
NELAC	Benzo(a)pyrene	<0.987	ug/L	0.987		50-32-8	19
NELAC	Benzo(b)fluoranthene	<0.987	ug/L	0.987		205-99-2	19
NELAC	Benzo(ghi)perylene	<0.987	ug/L	0.987		191-24-2	19
NELAC	Benzo(k)fluoranthene	<0.987	ug/L	0.987		207-08-9	19
NELAC	Benzyl Butyl phthalate	<7.40	ug/L	7.40		85-68-7	19
NELAC	Bis(2-chloroethoxy)methane	<0.987	ug/L	0.987		111-91-1	19
NELAC	Bis(2-chloroethyl)ether	<0.987	ug/L	0.987		111-44-4	19
NELAC	Bis(2-chloroisopropyl)ether	<0.987	ug/L	0.987		108-60-1	19
NELAC	Bis(2-ethylhexyl)phthalate	7.45	ug/L	7.40		117-81-7	19
NELAC	Chrysene (Benzo(a)phenanthrene)	<0.987	ug/L	0.987		218-01-9	19
NELAC	Dibenz(a,h)anthracene	<0.987	ug/L	0.987		53-70-3	19
NELAC	Diethyl phthalate	<5.63	ug/L	5.63		84-66-2	19
NELAC	Dimethyl phthalate	<4.74	ug/L	4.74		131-11-3	19
NELAC	Di-n-butylphthalate	<7.40	ug/L	7.40		84-74-2	19
NELAC	Di-n-octylphthalate	<0.987	ug/L	0.987		117-84-0	19
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<0.987	ug/L	0.987		206-44-0	19
NELAC	Fluorene	<0.987	ug/L	0.987		86-73-7	19
NELAC	Hexachlorobenzene	<0.987	ug/L	0.987		118-74-1	19
NELAC	Hexachlorobutadiene	<0.987	ug/L	0.987		87-68-3	19
NELAC	Hexachlorocyclopentadiene	<8.88	ug/L	8.88		77-47-4	19
NELAC	Hexachloroethane	<0.987	ug/L	0.987		67-72-1	19
NELAC	Indeno(1,2,3-cd)pyrene	<0.987	ug/L	0.987		193-39-5	19
NELAC	Isophorone	<0.987	ug/L	0.987		78-59-1	19
NELAC	Naphthalene	<0.987	ug/L	0.987		91-20-3	19

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Printed: 08/01/2024

2317694 **H023561-01** Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

EPA 625.1 Prepared: 1129976 07/23/2024 14:45:00 Analyzed 1131027 07/30/2024 02:25:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrobenzene	<0.987	ug/L	0.987		98-95-3	19
NELAC	n-Nitrosodiethylamine	<0.987	ug/L	0.987		55-18-5	19
NELAC	N-Nitrosodimethylamine	<6.91	ug/L	6.91		62-75-9	19
NELAC	n-Nitroso-di-n-butylamine	<0.987	ug/L	0.987		924-16-3	19
NELAC	N-Nitrosodi-n-propylamine	<0.987	ug/L	0.987		621-64-7	19
NELAC	N-Nitrosodiphenylamine (as DPA	<0.987	ug/L	0.987		86-30-6	19
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.37	ug/L	2.37		59-50-7	19
NELAC	Pentachlorobenzene	<0.987	ug/L	0.987		608-93-5	19
NELAC	Pentachlorophenol	<0.987	ug/L	0.987		87-86-5	19
NELAC	Phenanthrene	<0.987	ug/L	0.987		85-01-8	19
NELAC	Phenol	<1.48	ug/L	1.48		108-95-2	19
NELAC	Pyrene	<0.987	ug/L	0.987		129-00-0	19
NELAC	Pyridine	<5.33	ug/L	5.33		110-86-1	19

EPA 625.1 Prepared: 1129976 07/23/2024 14:45:00 Calculated 1131027 07/31/2024 16:03:09 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<6.12	ug/L	6.12		1319-77-3, etc.	19

EPA 632 Prepared: 1129683 07/22/2024 15:00:00 Analyzed 1130531 07/25/2024 21:44:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.52	ug/L	2.52		63-25-2	14
z	Diuron	<0.0454	ug/L	0.0454		330-54-1	14

SM 4500-CN⁻E-2016 Prepared: 1129224 07/19/2024 13:53:23 Analyzed 1129912 07/24/2024 08:06:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide, total	0.0412	mg/L	0.005			09

SM 4500-CN⁻G-2016 Prepared: 07/24/2024 14:22:40 Calculated 07/24/2024 14:22:40 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide - Available/Amenable	0.0050	mg/L	0.005			

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2317694 **H023561-01** Received: 07/18/2024

Non-Potable Water Collected by: Client AquaTech Laboratorie PO:
Taken: 07/16/2024 09:00:00

SM 4500-CN⁻G-2016 Prepared: 1129316 07/22/2024 07:32:08 Analyzed 1129909 07/24/2024 08:06:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide After Chlorination	0.0362	mg/L	0.005	D		10

Sample Preparation

2317694 **H023561-01** Received: 07/18/2024

07/16/2024

Prepared: 08/01/2024 16:30:00 Analyzed 08/01/2024 16:30:00 MG3

z	Return Cooler with bottles	Returned	

ASTM D7065-11 Prepared: 1130653 07/29/2024 08:45:00 Analyzed 1130831 07/29/2024 20:49:00 DWL

z	Nonyl Phenol Expansion	Entered	20

EPA 420.4 1 Prepared: 1129104 07/19/2024 09:21:23 Analyzed 1129104 07/19/2024 09:21:23 SRJ

NELAC	Phenol Distillation	6/6	ml	05

EPA 604.1 Prepared: 1129972 07/23/2024 15:35:00 Analyzed 1129972 07/23/2024 15:35:00 MCC

	Hexachlorophene Extraction	5/1003	ml	03

EPA 604.1 Prepared: 1129972 07/23/2024 15:35:00 Analyzed 1130677 07/26/2024 15:26:00 BRU

	Hexachlorophene Expansion	Entered	70-30-4	18

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07/16/2024

	EPA 608.3	*Prepared:*	*1129691*	*07/22/2024*	*15:00:00*	*Analyzed*	*1129691*	*07/22/2024*	*15:00:00*	*MCC*	
	Liquid-Liquid Extr. W/Hex Ex	**1/992**	**ml**								01
	EPA 608.3	*Prepared:*	*1129691*	*07/22/2024*	*15:00:00*	*Analyzed*	*1130626*	*07/24/2024*	*20:50:00*	*KAP*	
NELAC	**TTO Pesticides**	**Entered**									15
	EPA 608.3	*Prepared:*	*1129698*	*07/22/2024*	*13:00:00*	*Analyzed*	*1129698*	*07/22/2024*	*13:00:00*	*MCC*	
	Solvent Extraction	**1/992**	**ml**								01
	EPA 608.3	*Prepared:*	*1129702*	*07/22/2024*	*15:00:00*	*Analyzed*	*1129702*	*07/22/2024*	*15:00:00*	*MCC*	
	PCB Liq-Liq Extr. W/Hex Exch.	**1/992**	**ml**								01
	EPA 608.3	*Prepared:*	*1129702*	*07/22/2024*	*15:00:00*	*Analyzed*	*1130619*	*07/24/2024*	*20:50:00*	*KAP*	
NELAC	**Polychlorinated Biphenyls**	**Entered**									17
	EPA 614	*Prepared:*	*1129698*	*07/22/2024*	*13:00:00*	*Analyzed*	*1130106*	*07/24/2024*	*21:56:00*	*KAP*	
z	**Permit Organophos. Pesticides**	**Entered**									16
	EPA 615	*Prepared:*	*1129458*	*07/22/2024*	*14:40:00*	*Analyzed*	*1129458*	*07/22/2024*	*14:40:00*	*MCC*	
NELAC	**Esterification of Sample**	**10/994**	**ml**								04
	EPA 615	*Prepared:*	*1129458*	*07/22/2024*	*14:40:00*	*Analyzed*	*1131094*	*07/30/2024*	*22:07:00*	*KAP*	
NELAC	**Herbicides by GC**	**Entered**									13

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2317694 **H023561-01** Received: 07/18/2024

07/16/2024

	EPA 617	*Prepared:*	*1129691*	*07/22/2024*	*15:00:00*	*Analyzed*	*1130622*	*07/24/2024*	*20:50:00*	*KAP*	
z	**For use with !PPR only**	**Entered**									15
	EPA 622	*Prepared:*	*1129698*	*07/22/2024*	*13:00:00*	*Analyzed*	*1130099*	*07/24/2024*	*21:56:00*	*KAP*	
NELAC	**For use with EXP !CPP only**	**Entered**									16
	EPA 625.1	*Prepared:*	*1129976*	*07/23/2024*	*14:45:00*	*Analyzed*	*1129976*	*07/23/2024*	*14:45:00*	*MCC*	
	Liquid-Liquid Extraction, BNA	**1/1013**	**ml**								02
	EPA 625.1	*Prepared:*	*1129976*	*07/23/2024*	*14:45:00*	*Analyzed*	*1131027*	*07/30/2024*	*02:25:00*	*DWL*	
NELAC	**Table D-1/ D-2 Semivolatiles Exp**	**Entered**									19
	EPA 625.1	*Prepared:*	*1130653*	*07/29/2024*	*08:45:00*	*Analyzed*	*1130653*	*07/29/2024*	*08:45:00*	*MCC*	
	Nonylphenol Liq-Liq Extract	**1/939**	**ml**								05
	EPA 632	*Prepared:*	*1129683*	*07/22/2024*	*15:00:00*	*Analyzed*	*1129683*	*07/22/2024*	*15:00:00*	*MCC*	
	Liquid-Liquid Extr. W/Hex Ex	**1/992**	**ml**								01
	EPA 632	*Prepared:*	*1129683*	*07/22/2024*	*15:00:00*	*Analyzed*	*1130531*	*07/25/2024*	*21:44:00*	*BRU*	
NELAC	**Carbaryl/Diuron**	**Entered**									14
	SM 4500-CN¯C-2016	*Prepared:*	*1129224*	*07/19/2024*	*13:53:23*	*Analyzed*	*1129224*	*07/19/2024*	*13:53:23*	*SRJ*	
NELAC	**Cyanide Distillation**	**10/5**	**ml**								06

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Printed: 08/01/2024

2317694 H023561-01 Received: 07/18/2024

07/16/2024

SM 4500-CN⁻C-2016	*Prepared:*	*1129316*	*07/22/2024*	*07:32:08*	*Analyzed*	*1129316*	*07/22/2024*	*07:32:08*	*MEG*

NELAC	**CN Dist After Chlorination**	**10/5**	**ml**	06

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
X - Standard reads higher than desired.
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

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Administrative**										
2317694	**H023561-01**										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:											
				Analyzed:				7/31/24	16:20:00		
	Check Limits	**Completed**									1.00
Non-Potable Water	**Administrative**								**EPA 625.1**		
2317694	**H023561-01**										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129976*										
				Analyzed:		*1131027*		7/31/24	16:03:09		
1319-77-3, etc.	**Cresols Total**	**ND**	6.15	6.07	6.20	6.12		**ug/L**	10.0	19	1.00
Non-Potable Water	**Administrative**								**SM 4500-CN⁻ G-2016**		
2317694	**H023561-01**										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:											
				Analyzed:				7/24/24	14:22:40		
	Cyanide - Available/Amenable	**0.0050**	0.00238	0.00238	0.005	0.005		**mg/L**	0.010		1.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

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MQL is the Method Quantitation Limit and corresponds to a low standard

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
X - Standard reads higher than desired.
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

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Bill Peery

Bill Peery, MS, VP Technical Services

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Distillations**									**EPA 420.4 1**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129104*										
				Analyzed:		*1129506*		7/22/24	13:22:00		
	Phenolics, Total Recoverable	ND	0.003	0.003	0.005	0.005		mg/L	0.005	08	1.00
Non-Potable Water	**Distillations**									**SM 4500-CN⁻ E-2016**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129224*										
				Analyzed:		*1129912*		7/24/24	08:06:00		
	Cyanide, total	0.0412	0.00238	0.00238	0.005	0.005		mg/L	0.010	09	1.00
Non-Potable Water	**Distillations**									**SM 4500-CN⁻ G-2016**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129316*										
				Analyzed:		*1129909*		7/24/24	08:06:00		
	Cyanide After Chlorination	0.0362	0.00119	0.00238	0.0025	0.005	D	mg/L		10	2.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

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MQL is the Method Quantitation Limit and corresponds to a low standard

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
X - Standard reads higher than desired.
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.

Bill Peery

Bill Peery, MS, VP Technical Services

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**								**ASTM D7065-11**		
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1130653*										
				Analyzed:		*1130831*		7/29/24	20:49:00		
25154-52-3	Nonylphenol	ND	5.00	5.32	30.0	31.9	SD	ug/L	333	20	1.06
Non-Potable Water	**Organics**								**EPA 604.1**		
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129972*										
				Analyzed:		*1130677*		7/26/24	15:26:00		
70-30-4	Hexachlorophene	ND	0.890	0.887	2.50	2.49		ug/L	10.0	18	1.00
Non-Potable Water	**Organics**								**EPA 608.3**		
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129691*										
				Analyzed:		*1130626*		7/24/24	20:50:00		
72-54-8	4,4-DDD	ND	0.731	0.00737	1.00	0.0101		ug/L	0.100	15	0.01
72-55-9	4,4-DDE	0.00709	0.361	0.00364	1.00	0.0101	J	ug/L	0.100	15	0.01
50-29-3	4,4-DDT	ND	0.862	0.00869	1.00	0.0101		ug/L	0.020	15	0.01

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	Organics									EPA 608.3	
309-00-2	Aldrin	ND	0.260	0.00262	1.00	0.0101		ug/L	0.010	15	0.01
319-84-6	Alpha-BHC(hexachlorocyclohexane)	ND	0.280	0.00282	1.00	0.0101		ug/L	0.050	15	0.01
319-85-7	Beta-BHC(hexachlorocyclohexane)	ND	0.579	0.00584	1.00	0.0101		ug/L	0.050	15	0.01
57-74-9	Chlordane	ND	18.3	0.184	20.0	0.202		ug/L	0.200	15	0.01
319-86-8	Delta-BHC(hexachlorocyclohexane)	ND	0.898	0.00905	1.00	0.0101		ug/L	0.050	15	0.01
60-57-1	Dieldrin	ND	0.162	0.00163	1.00	0.0101		ug/L	0.020	15	0.01
959-98-8	Endosulfan I (alpha)	ND	0.679	0.00684	1.00	0.0101		ug/L	0.010	15	0.01
33213-65-9	Endosulfan II (beta)	ND	0.356	0.00359	1.00	0.0101		ug/L	0.020	15	0.01
1031-07-8	Endosulfan sulfate	ND	0.588	0.00593	1.00	0.0101		ug/L	0.100	15	0.01
72-20-8	Endrin	ND	0.538	0.00542	1.00	0.0101		ug/L	0.020	15	0.01
7421-93-4	Endrin aldehyde	ND	0.699	0.00705	1.00	0.0101		ug/L	0.100	15	0.01
58-89-9	Gamma-BHC(Lindane)	ND	0.385	0.00388	1.00	0.0101		ug/L	0.050	15	0.01
76-44-8	Heptachlor	ND	0.207	0.00209	1.00	0.0101		ug/L	0.010	15	0.01
1024-57-3	Heptachlor epoxide	ND	0.660	0.00665	1.00	0.0101		ug/L	0.010	15	0.01
8001-35-2	Toxaphene	ND	16.9	0.170	20.0	0.202		ug/L	0.300	15	0.01
Prepared:	1129702			Analyzed:		1130619		7/24/24	20:50:00		
12674-11-2	PCB-1016	ND	0.202	0.204	0.202	0.204	X	ug/L	0.200	! 17	1.01
11104-28-2	PCB-1221	ND	0.143	0.144	0.200	0.202		ug/L	0.200	17	1.01
11141-16-5	PCB-1232	ND	0.143	0.144	0.200	0.202		ug/L	0.200	17	1.01
53469-21-9	PCB-1242	ND	0.192	0.194	0.200	0.202		ug/L	0.200	17	1.01
12672-29-6	PCB-1248	ND	0.143	0.144	0.200	0.202		ug/L	0.200	17	1.01
11097-69-1	PCB-1254	ND	0.143	0.144	0.200	0.202		ug/L	0.200	17	1.01
11096-82-5	PCB-1260	ND	0.161	0.162	0.200	0.202		ug/L	0.200	17	1.01
37324-23-5	PCB-1262	ND	0.198	0.200	0.200	0.202		ug/L		17	1.01

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**									**EPA 608.3**	
11100-14-4	PCB-1268	ND	0.143	0.144	0.200	0.202		ug/L		17	1.01
Non-Potable Water	**Organics**									**EPA 614**	
2317694	H023561-01										
		Collection:	07/16/2024	09:00:00	Client				Received:	07/18/2024	
Prepared:	1129698										
				Analyzed:	1130106		7/24/24	21:56:00			
86-50-0	Azinphos-methyl (Guthion)	ND	41.4	0.0417	50.0	0.0504		ug/L	0.100	16	0.00
8065-48-3	Demeton	ND	31.9	0.0322	50.0	0.0504		ug/L	0.200	16	0.00
333-41-5	Diazinon	ND	19.7	0.0199	50.0	0.0504		ug/L	0.100	16	0.00
121-75-5	Malathion	ND	24.8	0.025	50.0	0.0504		ug/L	0.100	16	0.00
56-38-2	Parathion, ethyl	ND	23.9	0.0241	50.0	0.0504		ug/L	0.100	16	0.00
298-00-0	Parathion, methyl	ND	27.4	0.0276	50.0	0.0504		ug/L	0.050	16	0.00
Non-Potable Water	**Organics**									**EPA 615**	
2317694	H023561-01										
		Collection:	07/16/2024	09:00:00	Client				Received:	07/18/2024	
Prepared:	1129458										
				Analyzed:	1131094		7/30/24	22:07:00			
94-75-7	2,4 Dichlorophenoxyacetic acid	ND	0.159	0.160	0.500	0.503	S	ug/L	0.700	13	1.01
93-72-1	2,4,5-TP (Silvex)	ND	0.0893	0.0899	0.300	0.302		ug/L	0.300	13	1.01
Non-Potable Water	**Organics**									**EPA 617**	

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**									**EPA 617**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129691*										
				Analyzed:		*1130622*		7/24/24	20:50:00		
115-32-2	Kelthane (Dicofol)	ND	3.52	0.0355	5.00	0.0504	X	ug/L	1.00	15	0.01
72-43-5	Methoxychlor	ND	0.897	0.00904	1.00	0.0101		ug/L	2.00	15	0.01
2385-85-5	Mirex	ND	0.905	0.00912	1.00	0.0101		ug/L	0.020	15	0.01
Non-Potable Water	**Organics**									**EPA 622**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129698*										
				Analyzed:		*1130099*		7/24/24	21:56:00		
2921-88-2	Chlorpyrifos	ND	22.6	0.0228	50.0	0.0504		ug/L	0.050	16	0.00
Non-Potable Water	**Organics**									**EPA 625.1**	
2317694	H023561-01										
		Collection:	07/16/2024		09:00:00	Client			*Received:*	07/18/2024	
Prepared:	*1129976*										
				Analyzed:		*1131027*		7/30/24	02:25:00		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.517	0.510	1.00	0.987		ug/L	20.0	19	0.99

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	Organics									EPA 625.1	
120-82-1	1,2,4-Trichlorobenzene	ND	0.720	0.711	1.00	0.987		ug/L	10.0	19	0.99
95-50-1	1,2-Dichlorobenzene	ND	0.598	0.590	1.00	0.987		ug/L	10.0	19	0.99
122-66-7	1,2-DPH (as azobenzene)	ND	0.695	0.686	1.00	0.987		ug/L	20.0	19	0.99
541-73-1	1,3-Dichlorobenzene	ND	0.686	0.677	1.00	0.987		ug/L	10.0	19	0.99
106-46-7	1,4-Dichlorobenzene	ND	0.633	0.625	1.00	0.987		ug/L	10.0	19	0.99
95-95-4	2,4,5-Trichlorophenol	ND	0.734	0.725	1.00	0.987		ug/L	50.0	19	0.99
88-06-2	2,4,6-Trichlorophenol	ND	0.704	0.695	1.00	0.987		ug/L	10.0	19	0.99
120-83-2	2,4-Dichlorophenol	ND	0.567	0.560	1.00	0.987		ug/L	10.0	19	0.99
105-67-9	2,4-Dimethylphenol	ND	2.32	2.29	2.40	2.37	S	ug/L	10.0	19	0.99
51-28-5	2,4-Dinitrophenol	ND	8.07	7.97	9.00	8.88		ug/L	50.0	19	0.99
121-14-2	2,4-Dinitrotoluene	ND	3.35	3.31	3.50	3.46		ug/L	10.0	19	0.99
606-20-2	2,6-Dinitrotoluene	ND	0.675	0.666	1.00	0.987		ug/L	10.0	19	0.99
91-58-7	2-Chloronaphthalene	ND	0.333	0.329	1.00	0.987		ug/L	10.0	19	0.99
95-57-8	2-Chlorophenol	ND	0.367	0.362	1.00	0.987		ug/L	10.0	19	0.99
95-48-7	2-Methylphenol (o-Cresol)	ND	5.13	5.06	5.20	5.13		ug/L	10.0	19	0.99
88-75-5	2-Nitrophenol	ND	0.495	0.489	1.00	0.987		ug/L	20.0	19	0.99
MEPH34	3&4-Methylphenol (m&p-Cresol)	ND	6.15	6.07	6.20	6.12		ug/L	10.0	19	0.99
91-94-1	3,3'-Dichlorobenzidine	ND	4.79	4.73	5.00	4.94		ug/L	5.00	19	0.99
534-52-1	4,6-Dinitro-2-methylphenol	ND	7.88	7.78	8.00	7.90		ug/L	50.0	19	0.99
101-55-3	4-Bromophenyl phenyl ether	ND	0.311	0.307	1.00	0.987		ug/L	10.0	19	0.99
7005-72-3	4-Chlorophenyl phenyl ethe	ND	0.281	0.277	1.00	0.987		ug/L	10.0	19	0.99
100-02-7	4-Nitrophenol	ND	0.932	0.920	1.00	0.987		ug/L	50.0	19	0.99
83-32-9	Acenaphthene	ND	0.139	0.137	1.00	0.987		ug/L	10.0	19	0.99
208-96-8	Acenaphthylene	ND	0.202	0.199	1.00	0.987		ug/L	10.0	19	0.99
62-53-3	Aniline	ND	0.367	0.362	1.00	0.987	S	ug/L	10.0	19	0.99

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Non-Potable Water	Organics									EPA 625.1	
120-12-7	Anthracene	ND	0.538	0.531	1.00	0.987		ug/L	10.0	19	0.99
92-87-5	Benzidine	ND	19.9	19.6	20.0	19.7	D	ug/L	50.0	19	0.99
56-55-3	Benzo(a)anthracene	ND	0.627	0.619	1.00	0.987		ug/L	5.00	19	0.99
50-32-8	Benzo(a)pyrene	ND	0.478	0.472	1.00	0.987		ug/L	5.00	19	0.99
205-99-2	Benzo(b)fluoranthene	ND	0.517	0.510	1.00	0.987		ug/L	10.0	19	0.99
191-24-2	Benzo(ghi)perylene	ND	0.750	0.740	1.00	0.987		ug/L	20.0	19	0.99
207-08-9	Benzo(k)fluoranthene	ND	0.763	0.753	1.00	0.987		ug/L	5.00	19	0.99
85-68-7	Benzyl Butyl phthalate	ND	0.696	0.687	7.50	7.40		ug/L	10.0	19	0.99
111-91-1	Bis(2-chloroethoxy)methane	ND	0.312	0.308	1.00	0.987		ug/L	10.0	19	0.99
111-44-4	Bis(2-chloroethyl)ether	ND	0.434	0.428	1.00	0.987		ug/L	10.0	19	0.99
108-60-1	Bis(2-chloroisopropyl)ether	ND	0.448	0.442	1.00	0.987		ug/L	10.0	19	0.99
117-81-7	Bis(2-ethylhexyl)phthalate	7.45	1.63	1.61	7.50	7.40		ug/L	10.0	19	0.99
218-01-9	Chrysene (Benzo(a)phenanthrene)	ND	0.575	0.568	1.00	0.987		ug/L	5.00	19	0.99
53-70-3	Dibenz(a,h)anthracene	ND	0.872	0.861	1.00	0.987		ug/L	5.00	19	0.99
84-66-2	Diethyl phthalate	ND	0.721	0.712	5.70	5.63		ug/L	10.0	19	0.99
131-11-3	Dimethyl phthalate	ND	0.497	0.491	4.80	4.74		ug/L	10.0	19	0.99
84-74-2	Di-n-butylphthalate	ND	0.834	0.823	7.50	7.40		ug/L	10.0	19	0.99
117-84-0	Di-n-octylphthalate	ND	0.782	0.772	1.00	0.987		ug/L	10.0	19	0.99
206-44-0	Fluoranthene(Benzo(j,k)fluorene)	ND	0.772	0.762	1.00	0.987		ug/L	10.0	19	0.99
86-73-7	Fluorene	ND	0.512	0.505	1.00	0.987		ug/L	10.0	19	0.99
118-74-1	Hexachlorobenzene	ND	0.187	0.185	1.00	0.987		ug/L	5.00	19	0.99
87-68-3	Hexachlorobutadiene	ND	0.618	0.610	1.00	0.987		ug/L	10.0	19	0.99
77-47-4	Hexachlorocyclopentadiene	ND	8.69	8.58	9.00	8.88		ug/L	10.0	19	0.99
67-72-1	Hexachloroethane	ND	0.789	0.779	1.00	0.987		ug/L	20.0	19	0.99
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.793	0.783	1.00	0.987		ug/L	5.00	19	0.99

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	Organics									EPA 625.1	
78-59-1	Isophorone	ND	0.468	0.462	1.00	0.987		ug/L	10.0	19	0.99
91-20-3	Naphthalene	ND	0.387	0.382	1.00	0.987		ug/L	10.0	19	0.99
98-95-3	Nitrobenzene	ND	0.390	0.385	1.00	0.987		ug/L	10.0	19	0.99
55-18-5	n-Nitrosodiethylamine	ND	0.282	0.278	1.00	0.987		ug/L	20.0	19	0.99
62-75-9	N-Nitrosodimethylamine	ND	6.64	6.55	7.00	6.91		ug/L	50.0	19	0.99
924-16-3	n-Nitroso-di-n-butylamine	ND	0.403	0.398	1.00	0.987		ug/L	20.0	19	0.99
621-64-7	N-Nitrosodi-n-propylamine	ND	0.777	0.767	1.00	0.987		ug/L	20.0	19	0.99
86-30-6	N-Nitrosodiphenylamine (as DPA	ND	0.427	0.422	1.00	0.987		ug/L	20.0	19	0.99
59-50-7	p-Chloro-m-Cresol (4-Chloro-3-me	ND	2.35	2.32	2.40	2.37		ug/L	10.0	19	0.99
608-93-5	Pentachlorobenzene	ND	0.420	0.415	1.00	0.987		ug/L	20.0	19	0.99
87-86-5	Pentachlorophenol	ND	0.129	0.127	1.00	0.987		ug/L	5.00	19	0.99
85-01-8	Phenanthrene	ND	0.624	0.616	1.00	0.987		ug/L	10.0	19	0.99
108-95-2	Phenol	ND	1.50	1.48	1.50	1.48		ug/L	10.0	19	0.99
129-00-0	Pyrene	ND	0.587	0.579	1.00	0.987		ug/L	10.0	19	0.99
110-86-1	Pyridine	ND	5.33	5.26	5.40	5.33		ug/L	20.0	19	0.99
Non-Potable Water	Organics									EPA 632	
2317694	H023561-01										

Collection: 07/16/2024 09:00:00 Client Received: 07/18/2024

Prepared: 1129683

Analyzed: 1130531 7/25/24 21:44:00

63-25-2	Carbaryl (Sevin)	ND	66.1	0.0666	2500	2.52		ug/L	5.00	14	0.00
330-54-1	Diuron	ND	44.4	0.0448	45.0	0.0454		ug/L	0.090	14	0.00

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RESULTS

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MDL is Method Detection Limit (40 CFR 136 Appendix B)

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

MQL is the Method Quantitation Limit and corresponds to a low standard

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
X - Standard reads higher than desired.
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.

Bill Peery

Bill Peery, MS, VP Technical Services

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Analytical Set 1129506 — EPA 420.4 1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1129104	ND	0.003	0.005	mg/L	126574372

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.205	0.200	mg/L	102	90.0 - 110	126574371
Phenolics, Total Recoverable	0.193	0.200	mg/L	96.5	90.0 - 110	126574380
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	126574391
Phenolics, Total Recoverable	0.198	0.200	mg/L	99.0	90.0 - 110	126574402
Phenolics, Total Recoverable	0.195	0.200	mg/L	97.5	90.0 - 110	126574412
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	126574421

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Phenolics, Total Recoverable	2317378	0.010	0.013	mg/L	26.1	*	20.0
Phenolics, Total Recoverable	2317380	0.008	0.008	mg/L	0		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	126574370

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phenolics, Total Recoverable	1129104	0.191	0.196	0.200	90.0 - 110	95.5	98.0	mg/L	2.58	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Phenolics, Total Recoverable	2317378	0.191	0.013	0.200	mg/L	89.0	90.0 - 110	126574377	*
Phenolics, Total Recoverable	2317380	0.193	0.008	0.200	mg/L	92.5	90.0 - 110	126574381	

Analytical Set 1129909 — SM 4500-CN⁻ G-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1129316	0.0012	0.00119	0.0025	mg/L	126585296

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.507	0.500	mg/L	101	90.0 - 110	126585289
Cyanide After Chlorination	0.505	0.500	mg/L	101	90.0 - 110	126585290
Cyanide After Chlorination	0.511	0.500	mg/L	102	90.0 - 110	126585291
Cyanide After Chlorination	0.513	0.500	mg/L	103	90.0 - 110	126585292
Cyanide After Chlorination	0.499	0.500	mg/L	99.8	90.0 - 110	126585293
Cyanide After Chlorination	0.516	0.500	mg/L	103	90.0 - 110	126585294
Cyanide After Chlorination	0.503	0.500	mg/L	101	90.0 - 110	126585295
Cyanide After Chlorination	0.513	0.500	mg/L	103	90.0 - 110	126585303
Cyanide After Chlorination	0.515	0.500	mg/L	103	90.0 - 110	126585309

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.514	0.500	mg/L	103	90.0 - 110	126585310

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Cyanide After Chlorination	2317694	0.0446	0.0362	mg/L	20.8	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.198	0.200	mg/L	99.0	90.0 - 110	126585288

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide After Chlorination	1129316	0.208	0.212	0.200	90.0 - 110	104	106	mg/L	1.90	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide After Chlorination	2317694	0.437	0.0362	0.400	mg/L	100	90.0 - 110	126585301

Analytical Set 1129912 — SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1129224	ND	0.00238	0.005	mg/L	126585386

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.507	0.500	mg/L	101	90.0 - 110	126585374
Cyanide, total	0.505	0.500	mg/L	101	90.0 - 110	126585383
Cyanide, total	0.511	0.500	mg/L	102	90.0 - 110	126585394
Cyanide, total	0.513	0.500	mg/L	103	90.0 - 110	126585401
Cyanide, total	0.499	0.500	mg/L	99.8	90.0 - 110	126585402
Cyanide, total	0.516	0.500	mg/L	103	90.0 - 110	126585403
Cyanide, total	0.503	0.500	mg/L	101	90.0 - 110	126585404
Cyanide, total	0.513	0.500	mg/L	103	90.0 - 110	126585405
Cyanide, total	0.515	0.500	mg/L	103	90.0 - 110	126585406
Cyanide, total	0.514	0.500	mg/L	103	90.0 - 110	126585408

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide, total	2318090	0.0416	0.0446	mg/L	6.96	20.0
Cyanide, total	2318162	0.0358	0.0378	mg/L	5.43	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.198	0.200	mg/L	99.0	90.0 - 110	126585373

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1129224	0.408	0.407	0.400	90.0 - 110	102	102	mg/L	0.245	20.0

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Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2318090	0.423	0.0446	0.400	mg/L	94.6	90.0 - 110	126585391
Cyanide, total	2318162	0.429	0.0378	0.400	mg/L	97.8	90.0 - 110	126585395

Analytical Set 1130099 — EPA 622

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chlorpyrifos	1129698	ND	0.0904	50.0	ug/L	126590082

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1090	1000	ug/L	109	48.0 - 150	126590081
Chlorpyrifos	1190	1000	ug/L	119	48.0 - 150	126590090

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chlorpyrifos	1129698	405	384	1000	0.100 - 128	40.5	38.4	ug/L	5.32	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chlorpyrifos	2318203	304	279	ND	1000	70.0 - 130	30.4 *	27.9 *	ug/L	8.58	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1090	1000	ug/L	109	0.100 - 115	126590081
Tributylphosphate		CCV	1110	1000	ug/L	111	0.100 - 115	126590090
Triphenylphosphate		CCV	1080	1000	ug/L	108	0.100 - 115	126590081
Triphenylphosphate		CCV	1190	1000	ug/L	119 *	0.100 - 115	126590090
Tributylphosphate	1129698	Blank	181	1000	ug/L	18.1	0.100 - 115	126590082
Tributylphosphate	1129698	LCS	481	1000	ug/L	48.1	0.100 - 115	126590083
Tributylphosphate	1129698	LCS Dup	450	1000	ug/L	45.0	0.100 - 115	126590084
Triphenylphosphate	1129698	Blank	342	1000	ug/L	34.2	0.100 - 115	126590082
Triphenylphosphate	1129698	LCS	432	1000	ug/L	43.2	0.100 - 115	126590083
Triphenylphosphate	1129698	LCS Dup	348	1000	ug/L	34.8	0.100 - 115	126590084
Tributylphosphate	2318203	MS	397	1000	ug/L	39.7	0.100 - 115	126590088
Tributylphosphate	2318203	MSD	323	1000	ug/L	32.3	0.100 - 115	126590089
Triphenylphosphate	2318203	MS	469	1000	ug/L	46.9	0.100 - 115	126590088
Triphenylphosphate	2318203	MSD	398	1000	ug/L	39.8	0.100 - 115	126590089

Analytical Set 1130106 — EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1129698	ND	41.4	50.0	ug/L	126590229
Demeton	1129698	ND	31.9	50.0	ug/L	126590229
Diazinon	1129698	ND	19.7	50.0	ug/L	126590229
Malathion	1129698	ND	24.8	50.0	ug/L	126590229
Parathion, ethyl	1129698	ND	23.9	50.0	ug/L	126590229

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Parathion, methyl	1129698	ND	27.4	50.0	ug/L	126590229

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1100	1000	ug/L	110	37.5 - 164	126590228
Azinphos-methyl (Guthion)	1080	1000	ug/L	108	37.5 - 164	126590237
Demeton	1070	1000	ug/L	107	58.6 - 150	126590228
Demeton	1160	1000	ug/L	116	58.6 - 150	126590237
Diazinon	1080	1000	ug/L	108	65.4 - 138	126590228
Diazinon	1130	1000	ug/L	113	65.4 - 138	126590237
Malathion	1080	1000	ug/L	108	49.5 - 160	126590228
Malathion	1180	1000	ug/L	118	49.5 - 160	126590237
Parathion, ethyl	1070	1000	ug/L	107	56.0 - 142	126590228
Parathion, ethyl	1190	1000	ug/L	119	56.0 - 142	126590237
Parathion, methyl	1110	1000	ug/L	111	12.6 - 194	126590228
Parathion, methyl	1240	1000	ug/L	124	12.6 - 194	126590237

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1129698	437	422	1000	0.100 - 155	43.7	42.2	ug/L	3.49	30.0
Demeton	1129698	332	312	1000	0.100 - 109	33.2	31.2	ug/L	6.21	30.0
Diazinon	1129698	450	417	1000	0.100 - 125	45.0	41.7	ug/L	7.61	30.0
Malathion	1129698	418	391	1000	0.100 - 130	41.8	39.1	ug/L	6.67	30.0
Parathion, ethyl	1129698	370	358	1000	0.100 - 122	37.0	35.8	ug/L	3.30	30.0
Parathion, methyl	1129698	375	356	1000	0.100 - 131	37.5	35.6	ug/L	5.20	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	2318203	391	375	ND	1000	30.0 - 150	39.1	37.5	ug/L	4.18	30.0
Demeton	2318203	247	203	ND	1000	0.100 - 124	24.7	20.3	ug/L	19.6	30.0
Diazinon	2318203	341	289	ND	1000	0.100 - 212	34.1	28.9	ug/L	16.5	30.0
Malathion	2318203	330	290	ND	1000	0.100 - 183	33.0	29.0	ug/L	12.9	30.0
Parathion, ethyl	2318203	361	313	ND	1000	0.100 - 195	36.1	31.3	ug/L	14.2	30.0
Parathion, methyl	2318203	379	320	ND	1000	0.100 - 195	37.9	32.0	ug/L	16.9	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126590228
Tributylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 106	126590237
Triphenylphosphate		CCV	1080	2000	ug/L	54.0	0.100 - 172	126590228
Triphenylphosphate		CCV	1190	2000	ug/L	59.5	0.100 - 172	126590237
Tributylphosphate	1129698	Blank	181	2000	ug/L	9.05	0.100 - 106	126590229
Tributylphosphate	1129698	LCS	481	2000	ug/L	24.0	0.100 - 106	126590230
Tributylphosphate	1129698	LCS Dup	450	2000	ug/L	22.5	0.100 - 106	126590231
Triphenylphosphate	1129698	Blank	342	2000	ug/L	17.1	0.100 - 172	126590229
Triphenylphosphate	1129698	LCS	432	2000	ug/L	21.6	0.100 - 172	126590230

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Triphenylphosphate	1129698	LCS Dup	348	2000	ug/L	17.4	0.100 - 172	126590231
Tributylphosphate	2317694	Unknown	0.203	2.02	ug/L	10.0	0.100 - 106	126590232
Triphenylphosphate	2317694	Unknown	0.456	2.02	ug/L	22.6	0.100 - 172	126590232
Tributylphosphate	2318203	MS	397	2000	ug/L	19.8	0.100 - 106	126590235
Tributylphosphate	2318203	MSD	323	2000	ug/L	16.2	0.100 - 106	126590236
Triphenylphosphate	2318203	MS	469	2000	ug/L	23.4	0.100 - 172	126590235
Triphenylphosphate	2318203	MSD	398	2000	ug/L	19.9	0.100 - 172	126590236

Analytical Set 1130531 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1129683	ND	66.1	2500	ug/L	126598697
Diuron	1129683	62.0	44.4	45.0	ug/L	126598697

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1040	1000	ug/L	104	70.0 - 130	126598696
Carbaryl (Sevin)	1050	1000	ug/L	105	70.0 - 130	126598700
Carbaryl (Sevin)	1050	1000	ug/L	105	70.0 - 130	126598703
Carbaryl (Sevin)	1040	1000	ug/L	104	70.0 - 130	126598707
Diuron	1020	1000	ug/L	102	70.0 - 130	126598696
Diuron	1020	1000	ug/L	102	70.0 - 130	126598700
Diuron	1020	1000	ug/L	102	70.0 - 130	126598703
Diuron	969	1000	ug/L	96.9	70.0 - 130	126598707

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1129683	889	804	1000	17.1 - 131	88.9	80.4	ug/L	10.0	30.0
Diuron	1129683	28.0	663	1000	0.100 - 138	2.80	66.3	ug/L	184 *	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Carbaryl (Sevin)	2318203	0.0133	1.78	ND	1000	0.100 - 215	0.00133 *	0.178	ug/L	197 *	30.0
Diuron	2318203	0.169	0.172	ND	1000	0.100 - 148	0.0169 *	0.0172 *	ug/L	1.76	50.0

Analytical Set 1130619 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1129702	ND	0.202	0.202	ug/L	126600781
PCB-1221	1129702	ND	0.143	0.200	ug/L	126600781
PCB-1232	1129702	ND	0.143	0.200	ug/L	126600781
PCB-1242	1129702	ND	0.192	0.200	ug/L	126600781
PCB-1248	1129702	ND	0.143	0.200	ug/L	126600781
PCB-1254	1129702	ND	0.143	0.200	ug/L	126600781
PCB-1260	1129702	ND	0.161	0.200	ug/L	126600781

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Parameter	PrepSet	Reading	MDL	MQL	Units		File
PCB-1262	1129702	ND	0.198	0.200	ug/L		126600781
PCB-1268	1129702	ND	0.143	0.200	ug/L		126600781

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1150	1000	ug/L	115	80.0 - 115		126600780
PCB-1016	1170	1000	ug/L	117	80.0 - 115	*	126600788
PCB-1260	846	1000	ug/L	84.6	80.0 - 115		126600780
PCB-1260	878	1000	ug/L	87.8	80.0 - 115		126600788

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1129702	730	615	1000	39.8 - 135	73.0	61.5	ug/L	17.1	30.0
PCB-1260	1129702	648	589	1000	36.1 - 134	64.8	58.9	ug/L	9.54	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1129702	Blank	55.2	100	ug/L	55.2	10.0 - 200	126600781
Tetrachloro-m-Xylene (Surr)	1129702	Blank	47.9	100	ug/L	47.9	10.0 - 200	126600781
Decachlorobiphenyl	2317694	Unknown	0.055	0.101	ug/L	54.5	10.0 - 200	126600784
Tetrachloro-m-Xylene (Surr)	2317694	Unknown	0.0469	0.101	ug/L	46.4	10.0 - 200	126600784

Analytical Set 1130622 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Kelthane (Dicofol)	1129691	ND	3.52	5.00	ug/L		126600922
Methoxychlor	1129691	ND	0.897	1.00	ug/L		126600922
Mirex	1129691	ND	0.905	1.00	ug/L		126600922

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Kelthane (Dicofol)	102	100	ug/L	102	70.0 - 130		126600921
Kelthane (Dicofol)	133	100	ug/L	133	70.0 - 130	*	126600930
Methoxychlor	55.3	50.0	ug/L	111	70.0 - 130		126600921
Methoxychlor	58.7	50.0	ug/L	117	70.0 - 130		126600930
Mirex	47.9	50.0	ug/L	95.8	70.0 - 130		126600921
Mirex	55.8	50.0	ug/L	112	70.0 - 130		126600930

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1129691	129	128	100	0.100 - 137	129	128	ug/L	0.778	30.0
Methoxychlor	1129691	94.8	96.1	100	21.5 - 151	94.8	96.1	ug/L	1.36	30.0
Mirex	1129691	73.7	72.6	100	11.6 - 140	73.7	72.6	ug/L	1.50	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Kelthane (Dicofol)	2318203	1.46	1.47	ND	1.00	70.0 - 130	147 *	148 *	ug/L	0.683	30.0

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QUALITY CONTROL

AQU1-G

AquaTech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Project
1111149

Printed 08/01/2024

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Methoxychlor	2318203	0.822	0.765	ND	1.00	70.0 - 130	82.6	76.9	ug/L	7.18	30.0
Mirex	2318203	0.465	0.385	ND	1.00	70.0 - 130	46.7 *	38.7 *	ug/L	18.8	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	625249	CCV	47.6	100	ug/L	47.6	10.0 - 150	126600921
Decachlorobiphenyl	625249	CCV	45.5	100	ug/L	45.5	10.0 - 150	126600930
Tetrachloro-m-Xylene (Surr)	625249	CCV	45.9	100	ug/L	45.9	10.0 - 150	126600921
Tetrachloro-m-Xylene (Surr)	625249	CCV	45.2	100	ug/L	45.2	10.0 - 150	126600930
Decachlorobiphenyl	1129691	Blank	55.2	100	ug/L	55.2	10.0 - 150	126600922
Decachlorobiphenyl	1129691	LCS	55.3	100	ug/L	55.3	10.0 - 150	126600923
Decachlorobiphenyl	1129691	LCS Dup	49.6	100	ug/L	49.6	10.0 - 150	126600924
Tetrachloro-m-Xylene (Surr)	1129691	Blank	47.9	100	ug/L	47.9	10.0 - 150	126600922
Tetrachloro-m-Xylene (Surr)	1129691	LCS	45.6	100	ug/L	45.6	10.0 - 150	126600923
Tetrachloro-m-Xylene (Surr)	1129691	LCS Dup	45.2	100	ug/L	45.2	10.0 - 150	126600924
Decachlorobiphenyl	2317694	Unknown	0.055	0.101	ug/L	54.5	10.0 - 150	126600925
Tetrachloro-m-Xylene (Surr)	2317694	Unknown	0.0469	0.101	ug/L	46.4	10.0 - 150	126600925
Decachlorobiphenyl	2318203	MS	0.400	0.995	ug/L	40.2	10.0 - 150	126600927
Decachlorobiphenyl	2318203	MSD	0.326	1.00	ug/L	32.6	10.0 - 150	126600928
Tetrachloro-m-Xylene (Surr)	2318203	MS	0.396	0.995	ug/L	39.8	10.0 - 150	126600927
Tetrachloro-m-Xylene (Surr)	2318203	MSD	0.390	1.00	ug/L	39.0	10.0 - 150	126600928

Analytical Set 1130626 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1129691	ND	0.731	1.00	ug/L	126600982
4,4-DDE	1129691	ND	0.361	1.00	ug/L	126600982
4,4-DDT	1129691	ND	0.862	1.00	ug/L	126600982
Aldrin	1129691	ND	0.260	1.00	ug/L	126600982
Alpha-BHC(hexachlorocyclohexane)	1129691	ND	0.280	1.00	ug/L	126600982
Beta-BHC(hexachlorocyclohexane)	1129691	ND	0.579	1.00	ug/L	126600982
Delta-BHC(hexachlorocyclohexane)	1129691	ND	0.898	1.00	ug/L	126600982
Dieldrin	1129691	ND	0.162	1.00	ug/L	126600982
Endosulfan I (alpha)	1129691	ND	0.679	1.00	ug/L	126600982
Endosulfan II (beta)	1129691	ND	0.356	1.00	ug/L	126600982
Endosulfan sulfate	1129691	ND	0.588	1.00	ug/L	126600982
Endrin	1129691	ND	0.538	1.00	ug/L	126600982
Endrin aldehyde	1129691	ND	0.699	1.00	ug/L	126600982
Gamma-BHC(Lindane)	1129691	ND	0.385	1.00	ug/L	126600982
Heptachlor	1129691	ND	0.207	1.00	ug/L	126600982
Heptachlor epoxide	1129691	ND	0.660	1.00	ug/L	126600982
Toxaphene	1129691	ND	0.169	0.200	ug/L	126600982

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
4,4-DDD	51.4	50.0	ug/L	103	75.0 - 125	126600981
4,4-DDD	54.1	50.0	ug/L	108	75.0 - 125	126600990
4,4-DDE	49.0	50.0	ug/L	98.0	75.0 - 125	126600981
4,4-DDE	52.1	50.0	ug/L	104	75.0 - 125	126600990
4,4-DDT	47.0	50.0	ug/L	94.0	75.0 - 125	126600981
4,4-DDT	50.2	50.0	ug/L	100	75.0 - 125	126600990
Aldrin	48.1	50.0	ug/L	96.2	75.0 - 125	126600981
Aldrin	53.5	50.0	ug/L	107	75.0 - 125	126600990
Alpha-BHC(hexachlorocyclohexane)	48.8	50.0	ug/L	97.6	75.0 - 125	126600981
Alpha-BHC(hexachlorocyclohexane)	53.9	50.0	ug/L	108	75.0 - 125	126600990
Beta-BHC(hexachlorocyclohexane)	46.3	50.0	ug/L	92.6	75.0 - 125	126600981
Beta-BHC(hexachlorocyclohexane)	49.7	50.0	ug/L	99.4	75.0 - 125	126600990
Delta-BHC(hexachlorocyclohexane)	49.7	50.0	ug/L	99.4	75.0 - 125	126600981
Delta-BHC(hexachlorocyclohexane)	52.9	50.0	ug/L	106	75.0 - 125	126600990
Dieldrin	47.6	50.0	ug/L	95.2	75.0 - 125	126600981
Dieldrin	53.8	50.0	ug/L	108	75.0 - 125	126600990
Endosulfan I (alpha)	46.0	50.0	ug/L	92.0	75.0 - 125	126600981
Endosulfan I (alpha)	50.2	50.0	ug/L	100	75.0 - 125	126600990
Endosulfan II (beta)	47.5	50.0	ug/L	95.0	75.0 - 125	126600981
Endosulfan II (beta)	51.6	50.0	ug/L	103	75.0 - 125	126600990
Endosulfan sulfate	45.4	50.0	ug/L	90.8	75.0 - 125	126600981
Endosulfan sulfate	47.7	50.0	ug/L	95.4	75.0 - 125	126600990
Endrin	49.1	50.0	ug/L	98.2	75.0 - 125	126600981
Endrin	51.3	50.0	ug/L	103	75.0 - 125	126600990
Endrin aldehyde	46.2	50.0	ug/L	92.4	75.0 - 125	126600981
Endrin aldehyde	48.2	50.0	ug/L	96.4	75.0 - 125	126600990
Gamma-BHC(Lindane)	50.1	50.0	ug/L	100	75.0 - 125	126600981
Gamma-BHC(Lindane)	56.2	50.0	ug/L	112	75.0 - 125	126600990
Heptachlor	47.3	50.0	ug/L	94.6	75.0 - 125	126600981
Heptachlor	48.4	50.0	ug/L	96.8	75.0 - 125	126600990
Heptachlor epoxide	46.1	50.0	ug/L	92.2	75.0 - 125	126600981
Heptachlor epoxide	50.3	50.0	ug/L	101	75.0 - 125	126600990

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
4,4-DDD	1129691	85.9	86.6	100	31.0 - 141	85.9	86.6	ug/L	0.812	39.0
4,4-DDE	1129691	73.4	75.4	100	30.0 - 145	73.4	75.4	ug/L	2.69	35.0
4,4-DDT	1129691	81.0	81.5	100	25.0 - 160	81.0	81.5	ug/L	0.615	42.0
Aldrin	1129691	56.4	54.5	100	42.0 - 140	56.4	54.5	ug/L	3.43	35.0
Alpha-BHC(hexachlorocyclohexane)	1129691	72.1	69.9	100	37.0 - 140	72.1	69.9	ug/L	3.10	36.0
Beta-BHC(hexachlorocyclohexane)	1129691	68.3	66.5	100	17.0 - 147	68.3	66.5	ug/L	2.67	44.0
Delta-BHC(hexachlorocyclohexane)	1129691	75.8	74.3	100	19.0 - 140	75.8	74.3	ug/L	2.00	52.0
Dieldrin	1129691	75.2	73.4	100	36.0 - 146	75.2	73.4	ug/L	2.42	49.0
Endosulfan I (alpha)	1129691	59.0	57.2	100	45.0 - 153	59.0	57.2	ug/L	3.10	28.0
Endosulfan II (beta)	1129691	64.0	64.6	100	0.100 - 202	64.0	64.6	ug/L	0.933	53.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Endosulfan sulfate	1129691	62.1	61.5	100	26.0 - 144	62.1	61.5	ug/L	0.971	38.0
Endrin	1129691	77.3	76.6	100	30.0 - 147	77.3	76.6	ug/L	0.910	48.0
Endrin aldehyde	1129691	72.0	70.5	100	37.6 - 158	72.0	70.5	ug/L	2.11	30.0
Gamma-BHC(Lindane)	1129691	75.9	72.7	100	32.0 - 140	75.9	72.7	ug/L	4.31	39.0
Heptachlor	1129691	63.7	59.1	100	34.0 - 140	63.7	59.1	ug/L	7.49	43.0
Heptachlor epoxide	1129691	67.5	65.5	100	37.0 - 142	67.5	65.5	ug/L	3.01	26.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
4,4-DDD	2318203	0.787	0.789	ND	1.00	31.0 - 141	79.1	79.3	ug/L	0.254	39.0
4,4-DDE	2318203	0.588	0.527	ND	1.00	30.0 - 145	59.1	53.0	ug/L	10.9	35.0
4,4-DDT	2318203	0.707	0.650	ND	1.00	25.0 - 160	71.1	65.3	ug/L	8.40	42.0
Aldrin	2318203	0.456	0.414	ND	1.00	42.0 - 140	45.8	41.6 *	ug/L	9.66	35.0
Alpha-BHC(hexachlorocyclohexane)	2318203	0.625	0.620	ND	1.00	37.0 - 140	62.8	62.3	ug/L	0.803	36.0
Beta-BHC(hexachlorocyclohexane)	2318203	0.676	0.665	ND	1.00	17.0 - 147	67.9	66.8	ug/L	1.64	44.0
Delta-BHC(hexachlorocyclohexane)	2318203	0.695	0.686	ND	1.00	19.0 - 140	69.8	68.9	ug/L	1.30	52.0
Dieldrin	2318203	0.656	0.626	ND	1.00	36.0 - 146	65.9	62.9	ug/L	4.68	49.0
Endosulfan I (alpha)	2318203	0.538	0.525	ND	1.00	45.0 - 153	54.1	52.8	ug/L	2.45	28.0
Endosulfan II (beta)	2318203	0.625	0.535	ND	1.00	0.100 - 202	62.8	53.8	ug/L	15.5	53.0
Endosulfan sulfate	2318203	0.563	0.547	ND	1.00	26.0 - 144	56.6	55.0	ug/L	2.88	38.0
Endrin	2318203	0.716	0.682	ND	1.00	30.0 - 147	72.0	68.5	ug/L	4.86	48.0
Endrin aldehyde	2318203	0.685	0.695	ND	1.00	37.6 - 158	68.8	69.8	ug/L	1.45	30.0
Gamma-BHC(Lindane)	2318203	0.638	0.646	ND	1.00	32.0 - 140	64.1	64.9	ug/L	1.25	39.0
Heptachlor	2318203	0.489	0.467	ND	1.00	34.0 - 140	49.1	46.9	ug/L	4.60	43.0
Heptachlor epoxide	2318203	0.593	0.569	ND	1.00	37.0 - 142	59.6	57.2	ug/L	4.13	26.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	625249	CCV	47.6	100	ug/L	47.6	0.100 - 144	126600981
Decachlorobiphenyl	625249	CCV	45.5	100	ug/L	45.5	0.100 - 144	126600990
Tetrachloro-m-Xylene (Surr)	625249	CCV	45.9	100	ug/L	45.9	0.100 - 107	126600981
Tetrachloro-m-Xylene (Surr)	625249	CCV	45.2	100	ug/L	45.2	0.100 - 107	126600990
Decachlorobiphenyl	1129691	Blank	55.2	100	ug/L	55.2	0.100 - 144	126600982
Decachlorobiphenyl	1129691	LCS	55.3	100	ug/L	55.3	0.100 - 144	126600983
Decachlorobiphenyl	1129691	LCS Dup	49.6	100	ug/L	49.6	0.100 - 144	126600984
Tetrachloro-m-Xylene (Surr)	1129691	Blank	47.9	100	ug/L	47.9	0.100 - 107	126600982
Tetrachloro-m-Xylene (Surr)	1129691	LCS	45.6	100	ug/L	45.6	0.100 - 107	126600983
Tetrachloro-m-Xylene (Surr)	1129691	LCS Dup	45.2	100	ug/L	45.2	0.100 - 107	126600984
Decachlorobiphenyl	2317694	Unknown	0.055	0.101	ug/L	54.5	0.100 - 144	126600985
Tetrachloro-m-Xylene (Surr)	2317694	Unknown	0.0469	0.101	ug/L	46.4	0.100 - 107	126600985
Decachlorobiphenyl	2318203	MS	0.400	0.995	ug/L	40.2	0.100 - 144	126600987
Decachlorobiphenyl	2318203	MSD	0.326	1.00	ug/L	32.6	0.100 - 144	126600988
Tetrachloro-m-Xylene (Surr)	2318203	MS	0.396	0.995	ug/L	39.8	0.100 - 107	126600987
Tetrachloro-m-Xylene (Surr)	2318203	MSD	0.390	1.00	ug/L	39.0	0.100 - 107	126600988

Analytical Set 1130677 EPA 604.1

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1129972	ND	0.890	2.50	ug/L	126602090

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5430	5000	ug/L	109	70.0 - 130	126602089
Hexachlorophene	5530	5000	ug/L	111	70.0 - 130	126602097
Hexachlorophene	5680	5000	ug/L	114	70.0 - 130	126602101

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1129972	21.9	28.3	50.0	25.5 - 145	43.8	56.6	ug/L	25.5	50.0

Analytical Set 1130831 — ASTM D7065-11

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1130653	ND	5.00	30.0	ug/L	126606317

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	152000	150000	ug/L	101	70.0 - 130	126606316
Nonylphenol	145000	150000	ug/L	96.8	70.0 - 130	126606330

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	755500	755500	377800	1133000	126606316	624841
Acenaphthene-d10-ISTD	624841	CCV	853300	755500	377800	1133000	126606330	624841
Phenanthrene-d10-ISTD	624841	CCV	1187000	1187000	593300	1780000	126606316	624841
Phenanthrene-d10-ISTD	624841	CCV	1195000	1187000	593300	1780000	126606330	624841
Acenaphthene-d10-ISTD	1130653	Blank	669600	755500	377800	1133000	126606317	1130653
Acenaphthene-d10-ISTD	1130653	LCS	584400	755500	377800	1133000	126606318	1130653
Acenaphthene-d10-ISTD	1130653	LCS Dup	671200	755500	377800	1133000	126606319	1130653
Phenanthrene-d10-ISTD	1130653	Blank	894000	1187000	593300	1780000	126606317	1130653
Phenanthrene-d10-ISTD	1130653	LCS	879900	1187000	593300	1780000	126606318	1130653
Phenanthrene-d10-ISTD	1130653	LCS Dup	958700	1187000	593300	1780000	126606319	1130653
Acenaphthene-d10-ISTD	2317694	Unknown	522500	755500	377800	1133000	126606324	1130653
Phenanthrene-d10-ISTD	2317694	Unknown	740700	1187000	593300	1780000	126606324	1130653

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	6.847	6.847	6.787	6.907	126606316	624841
Acenaphthene-d10-ISTD	624841	CCV	6.847	6.847	6.787	6.907	126606330	624841
Phenanthrene-d10-ISTD	624841	CCV	8.068	8.068	8.008	8.128	126606316	624841
Phenanthrene-d10-ISTD	624841	CCV	8.068	8.068	8.008	8.128	126606330	624841
Acenaphthene-d10-ISTD	1130653	Blank	6.835	6.847	6.787	6.907	126606317	1130653
Acenaphthene-d10-ISTD	1130653	LCS	6.841	6.847	6.787	6.907	126606318	1130653
Acenaphthene-d10-ISTD	1130653	LCS Dup	6.847	6.847	6.787	6.907	126606319	1130653

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Phenanthrene-d10-ISTD	1130653	Blank	8.056	8.068	8.008	8.128	126606317	1130653
Phenanthrene-d10-ISTD	1130653	LCS	8.062	8.068	8.008	8.128	126606318	1130653
Phenanthrene-d10-ISTD	1130653	LCS Dup	8.068	8.068	8.008	8.128	126606319	1130653
Acenaphthene-d10-ISTD	2317694	Unknown	6.841	6.847	6.787	6.907	126606324	1130653
Phenanthrene-d10-ISTD	2317694	Unknown	8.062	8.068	8.008	8.128	126606324	1130653

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1130653	67.1	109	150	56.0 - 112	44.7 *	72.7	ug/L	47.7 *	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	624841	CCV	26200	25000	ug/L	105	50.0 - 130	126606316
4-Nonylphenol-SURR	624841	CCV	29500	25000	ug/L	118	50.0 - 130	126606330
4-Nonylphenol-SURR	1130653	Blank	16500	25000	ug/L	66.0	50.0 - 130	126606317
4-Nonylphenol-SURR	1130653	LCS	12800	25000	ug/L	51.2	50.0 - 130	126606318
4-Nonylphenol-SURR	1130653	LCS Dup	22400	25000	ug/L	89.6	50.0 - 130	126606319
4-Nonylphenol-SURR	2317694	Unknown	18.4	26.6	ug/L	69.2	50.0 - 130	126606324

Analytical Set 1131027 EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1129976	ND	0.517	1.00	ug/L	126610381
1,2,4-Trichlorobenzene	1129976	ND	0.720	1.00	ug/L	126610381
1,2-Dichlorobenzene	1129976	ND	0.598	1.00	ug/L	126610381
1,2-DPH (as azobenzene)	1129976	ND	0.695	1.00	ug/L	126610381
1,3-Dichlorobenzene	1129976	ND	0.686	1.00	ug/L	126610381
1,4-Dichlorobenzene	1129976	ND	0.633	1.00	ug/L	126610381
2,4,5-Trichlorophenol	1129976	ND	0.734	1.00	ug/L	126610381
2,4,6-Trichlorophenol	1129976	ND	0.704	1.00	ug/L	126610381
2,4-Dichlorophenol	1129976	ND	0.567	1.00	ug/L	126610381
2,4-Dimethylphenol	1129976	ND	2.32	2.40	ug/L	126610381
2,4-Dinitrophenol	1129976	ND	8.07	9.00	ug/L	126610381
2,4-Dinitrotoluene	1129976	ND	3.35	3.50	ug/L	126610381
2,6-Dinitrotoluene	1129976	ND	0.675	1.00	ug/L	126610381
2-Chloronaphthalene	1129976	ND	0.333	1.00	ug/L	126610381
2-Chlorophenol	1129976	ND	0.367	1.00	ug/L	126610381
2-Methylphenol (o-Cresol)	1129976	ND	5.13	5.20	ug/L	126610381
2-Nitrophenol	1129976	ND	0.495	1.00	ug/L	126610381
3&4-Methylphenol (m&p-Cresol)	1129976	ND	6.15	6.20	ug/L	126610381
3,3'-Dichlorobenzidine	1129976	ND	4.79	5.00	ug/L	126610381
4,6-Dinitro-2-methylphenol	1129976	ND	7.88	8.00	ug/L	126610381
4-Bromophenyl phenyl ether	1129976	ND	0.311	1.00	ug/L	126610381
4-Chlorophenyl phenyl ethe	1129976	ND	0.281	1.00	ug/L	126610381
4-Nitrophenol	1129976	ND	0.932	1.00	ug/L	126610381

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QUALITY CONTROL

AQU1-G

AquaTech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Acenaphthene	1129976	ND	0.139	1.00	ug/L	126610381
Acenaphthylene	1129976	ND	0.202	1.00	ug/L	126610381
Aniline	1129976	ND	0.367	1.00	ug/L	126610381
Anthracene	1129976	ND	0.538	1.00	ug/L	126610381
Benzidine	1129976	ND	19.9	20.0	ug/L	126610381
Benzo(a)anthracene	1129976	ND	0.627	1.00	ug/L	126610381
Benzo(a)pyrene	1129976	ND	0.478	1.00	ug/L	126610381
Benzo(b)fluoranthene	1129976	ND	0.517	1.00	ug/L	126610381
Benzo(ghi)perylene	1129976	ND	0.750	1.00	ug/L	126610381
Benzo(k)fluoranthene	1129976	ND	0.763	1.00	ug/L	126610381
Benzyl Butyl phthalate	1129976	ND	0.696	7.50	ug/L	126610381
Bis(2-chloroethoxy)methane	1129976	ND	0.312	1.00	ug/L	126610381
Bis(2-chloroethyl)ether	1129976	ND	0.434	1.00	ug/L	126610381
Bis(2-chloroisopropyl)ether	1129976	ND	0.448	1.00	ug/L	126610381
Bis(2-ethylhexyl)phthalate	1129976	ND	1.63	7.50	ug/L	126610381
Chrysene (Benzo(a)phenanthrene)	1129976	ND	0.575	1.00	ug/L	126610381
Dibenz(a,h)anthracene	1129976	ND	0.872	1.00	ug/L	126610381
Diethyl phthalate	1129976	ND	0.721	5.70	ug/L	126610381
Dimethyl phthalate	1129976	ND	0.497	4.80	ug/L	126610381
Di-n-butylphthalate	1129976	ND	0.834	7.50	ug/L	126610381
Di-n-octylphthalate	1129976	ND	0.782	1.00	ug/L	126610381
Fluoranthene(Benzo(j,k)fluorene)	1129976	ND	0.772	1.00	ug/L	126610381
Fluorene	1129976	ND	0.512	1.00	ug/L	126610381
Hexachlorobenzene	1129976	ND	0.187	1.00	ug/L	126610381
Hexachlorobutadiene	1129976	ND	0.618	1.00	ug/L	126610381
Hexachlorocyclopentadiene	1129976	ND	8.69	9.00	ug/L	126610381
Hexachloroethane	1129976	ND	0.789	1.00	ug/L	126610381
Indeno(1,2,3-cd)pyrene	1129976	ND	0.793	1.00	ug/L	126610381
Isophorone	1129976	ND	0.468	1.00	ug/L	126610381
Naphthalene	1129976	ND	0.387	1.00	ug/L	126610381
Nitrobenzene	1129976	ND	0.390	1.00	ug/L	126610381
n-Nitrosodiethylamine	1129976	ND	0.282	1.00	ug/L	126610381
N-Nitrosodimethylamine	1129976	ND	6.64	7.00	ug/L	126610381
n-Nitroso-di-n-butylamine	1129976	ND	0.403	1.00	ug/L	126610381
N-Nitrosodi-n-propylamine	1129976	ND	0.777	1.00	ug/L	126610381
N-Nitrosodiphenylamine (as DPA	1129976	ND	0.427	1.00	ug/L	126610381
p-Chloro-m-Cresol (4-Chloro-3-me	1129976	ND	2.35	2.40	ug/L	126610381
Pentachlorobenzene	1129976	ND	0.420	1.00	ug/L	126610381
Pentachlorophenol	1129976	ND	0.129	1.00	ug/L	126610381
Phenanthrene	1129976	ND	0.624	1.00	ug/L	126610381
Phenol	1129976	ND	1.50	1.50	ug/L	126610381
Pyrene	1129976	ND	0.587	1.00	ug/L	126610381
Pyridine	1129976	ND	5.33	5.40	ug/L	126610381

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2,4,5-Tetrachlorobenzene	49600	50000	ug/L	99.2	60.0 - 140	126610377
1,2,4-Trichlorobenzene	48900	50000	ug/L	97.8	61.0 - 130	126610377
1,2-Dichlorobenzene	48200	50000	ug/L	96.4	60.0 - 140	126610377
1,2-DPH (as azobenzene)	46900	50000	ug/L	93.8	60.0 - 140	126610377
1,3-Dichlorobenzene	48000	50000	ug/L	96.0	60.0 - 140	126610377
1,4-Dichlorobenzene	47600	50000	ug/L	95.2	60.0 - 140	126610377
2,4,5-Trichlorophenol	48600	50000	ug/L	97.2	69.0 - 130	126610377
2,4,6-Trichlorophenol	47600	50000	ug/L	95.2	69.0 - 130	126610377
2,4-Dichlorophenol	45500	50000	ug/L	91.0	64.0 - 130	126610377
2,4-Dimethylphenol	40400	50000	ug/L	80.8	58.0 - 130	126610377
2,4-Dinitrophenol	44400	50000	ug/L	88.8	39.0 - 173	126610377
2,4-Dinitrotoluene	56000	50000	ug/L	112	53.0 - 130	126610377
2,6-Dinitrotoluene	51200	50000	ug/L	102	68.0 - 137	126610377
2-Chloronaphthalene	45500	50000	ug/L	91.0	70.0 - 130	126610377
2-Chlorophenol	46700	50000	ug/L	93.4	55.0 - 130	126610377
2-Methylphenol (o-Cresol)	43100	50000	ug/L	86.2	60.0 - 140	126610377
2-Nitrophenol	46700	50000	ug/L	93.4	61.0 - 163	126610377
3&4-Methylphenol (m&p-Cresol)	44500	50000	ug/L	89.0	60.0 - 140	126610377
3,3'-Dichlorobenzidine	50600	50000	ug/L	101	18.0 - 213	126610377
4,6-Dinitro-2-methylphenol	49700	50000	ug/L	99.4	56.0 - 130	126610377
4-Bromophenyl phenyl ether	50700	50000	ug/L	101	70.0 - 130	126610377
4-Chlorophenyl phenyl ethe	49600	50000	ug/L	99.2	57.0 - 145	126610377
4-Nitrophenol	39900	50000	ug/L	79.8	35.0 - 135	126610377
Acenaphthene	49800	50000	ug/L	99.6	70.0 - 130	126610377
Acenaphthylene	49300	50000	ug/L	98.6	60.0 - 130	126610377
Aniline	45000	50000	ug/L	90.0	60.0 - 140	126610377
Anthracene	49900	50000	ug/L	99.8	58.0 - 130	126610377
Benzidine	13100	50000	ug/L	26.2	20.0 - 180	126610377
Benzo(a)anthracene	50200	50000	ug/L	100	42.0 - 133	126610377
Benzo(a)pyrene	50700	50000	ug/L	101	32.0 - 148	126610377
Benzo(b)fluoranthene	46700	50000	ug/L	93.4	42.0 - 140	126610377
Benzo(ghi)perylene	54200	50000	ug/L	108	13.0 - 195	126610377
Benzo(k)fluoranthene	52000	50000	ug/L	104	25.0 - 146	126610377
Benzyl Butyl phthalate	55700	50000	ug/L	111	43.0 - 140	126610377
Bis(2-chloroethoxy)methane	48400	50000	ug/L	96.8	52.0 - 164	126610377
Bis(2-chloroethyl)ether	46900	50000	ug/L	93.8	52.0 - 130	126610377
Bis(2-chloroisopropyl)ether	49400	50000	ug/L	98.8	63.0 - 139	126610377
Bis(2-ethylhexyl)phthalate	57200	50000	ug/L	114	43.0 - 137	126610377
Chrysene (Benzo(a)phenanthrene)	53400	50000	ug/L	107	44.0 - 140	126610377
Dibenz(a,h)anthracene	50600	50000	ug/L	101	13.0 - 200	126610377
Diethyl phthalate	47800	50000	ug/L	95.6	47.0 - 130	126610377
Dimethyl phthalate	49100	50000	ug/L	98.2	50.0 - 130	126610377
Di-n-butylphthalate	47800	50000	ug/L	95.6	52.0 - 130	126610377
Di-n-octylphthalate	49900	50000	ug/L	99.8	21.0 - 132	126610377
Fluoranthene(Benzo(j,k)fluorene)	50400	50000	ug/L	101	47.0 - 130	126610377

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluorene	50200	50000	ug/L	100	70.0 - 130	126610377
Hexachlorobenzene	51000	50000	ug/L	102	38.0 - 142	126610377
Hexachlorobutadiene	48800	50000	ug/L	97.6	68.0 - 130	126610377
Hexachlorocyclopentadiene	42300	50000	ug/L	84.6	60.0 - 140	126610377
Hexachloroethane	46800	50000	ug/L	93.6	55.0 - 130	126610377
Indeno(1,2,3-cd)pyrene	50400	50000	ug/L	101	13.0 - 151	126610377
Isophorone	51800	50000	ug/L	104	52.0 - 180	126610377
Naphthalene	47200	50000	ug/L	94.4	70.0 - 130	126610377
Nitrobenzene	49100	50000	ug/L	98.2	54.0 - 158	126610377
n-Nitrosodiethylamine	48100	50000	ug/L	96.2	60.0 - 140	126610377
N-Nitrosodimethylamine	46200	50000	ug/L	92.4	60.0 - 140	126610377
n-Nitroso-di-n-butylamine	46400	50000	ug/L	92.8	60.0 - 140	126610377
N-Nitrosodi-n-propylamine	52100	50000	ug/L	104	59.0 - 170	126610377
N-Nitrosodiphenylamine (as DPA	43300	50000	ug/L	86.6	60.0 - 140	126610377
p-Chloro-m-Cresol (4-Chloro-3-me	44700	50000	ug/L	89.4	68.0 - 130	126610377
Pentachlorobenzene	47600	50000	ug/L	95.2	60.0 - 140	126610377
Pentachlorophenol	48400	50000	ug/L	96.8	42.0 - 152	126610377
Phenanthrene	47700	50000	ug/L	95.4	67.0 - 130	126610377
Phenol	44600	50000	ug/L	89.2	48.0 - 130	126610377
Pyrene	50200	50000	ug/L	100	70.0 - 130	126610377
Pyridine	45800	50000	ug/L	91.6	60.0 - 140	126610377

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	626062	198	69618	48.1	40.0 - 60.0	126610375
DFTPP Mass 197	626062	198	0	0.0	0 - 1.00	126610375
DFTPP Mass 198	626062	198	144828	100.0	100 - 100	126610375
DFTPP Mass 199	626062	198	10072	7.0	5.00 - 9.00	126610375
DFTPP Mass 275	626062	198	31974	22.1	10.0 - 30.0	126610375
DFTPP Mass 365	626062	198	3360	2.3	1.00 - 100	126610375
DFTPP Mass 441	626062	443	11640	75.8	0 - 100	126610375
DFTPP Mass 442	626062	198	78616	54.3	40.0 - 100	126610375
DFTPP Mass 443	626062	442	15363	19.5	17.0 - 23.0	126610375
DFTPP Mass 51	626062	198	46101	31.8	30.0 - 60.0	126610375
DFTPP Mass 68	626062	69.0	0	0.0	0 - 2.00	126610375
DFTPP Mass 69	626062	198	54481	37.6	0 - 100	126610375
DFTPP Mass 70	626062	69.0	237	0.4	0 - 2.00	126610375

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1129976	7.39	8.58	12.5	27.5 - 85.5	59.1	68.6	ug/L	14.9	50.0
1,2,4-Trichlorobenzene	1129976	6.87	8.14	12.5	44.0 - 142	55.0	65.1	ug/L	16.8	50.0
1,2-Dichlorobenzene	1129976	6.53	7.96	12.5	23.0 - 81.8	52.2	63.7	ug/L	19.8	50.0
1,2-DPH (as azobenzene)	1129976	9.73	11.0	12.5	12.6 - 110	77.8	88.0	ug/L	12.3	50.0
1,3-Dichlorobenzene	1129976	6.20	7.71	12.5	21.1 - 80.5	49.6	61.7	ug/L	21.7	50.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,4-Dichlorobenzene	1129976	6.34	7.90	12.5	21.4 - 76.9	50.7	63.2	ug/L	21.9	50.0
2,4,5-Trichlorophenol	1129976	8.64	9.25	12.5	51.3 - 109	69.1	74.0	ug/L	6.85	50.0
2,4,6-Trichlorophenol	1129976	8.70	9.51	12.5	37.0 - 144	69.6	76.1	ug/L	8.92	58.0
2,4-Dichlorophenol	1129976	8.06	9.09	12.5	39.0 - 135	64.5	72.7	ug/L	12.0	50.0
2,4-Dimethylphenol	1129976	0.910	0.920	12.5	23.0 - 120	7.28 *	7.36 *	ug/L	1.09	68.0
2,4-Dinitrophenol	1129976	8.25	7.53	12.5	0.100 - 191	66.0	60.2	ug/L	9.19	132
2,4-Dinitrotoluene	1129976	9.57	9.36	12.5	39.0 - 139	76.6	74.9	ug/L	2.24	42.0
2,6-Dinitrotoluene	1129976	9.46	10.1	12.5	50.0 - 158	75.7	80.8	ug/L	6.52	48.0
2-Chloronaphthalene	1129976	8.37	9.47	12.5	60.0 - 120	67.0	75.8	ug/L	12.3	24.0
2-Chlorophenol	1129976	7.60	8.86	12.5	23.0 - 134	60.8	70.9	ug/L	15.3	61.0
2-Methylphenol (o-Cresol)	1129976	5.94	6.43	12.5	38.9 - 76.1	47.5	51.4	ug/L	7.89	50.0
2-Nitrophenol	1129976	8.01	9.22	12.5	29.0 - 182	64.1	73.8	ug/L	14.1	55.0
3&4-Methylphenol (m&p-Cresol)	1129976	5.27	5.79	12.5	33.0 - 70.4	42.2	46.3	ug/L	9.27	50.0
3,3'-Dichlorobenzidine	1129976	8.37	9.03	12.5	0.100 - 262	67.0	72.2	ug/L	7.47	108
4,6-Dinitro-2-methylphenol	1129976	8.17	8.31	12.5	0.100 - 181	65.4	66.5	ug/L	1.67	203
4-Bromophenyl phenyl ether	1129976	9.26	10.3	12.5	53.0 - 127	74.1	82.4	ug/L	10.6	43.0
4-Chlorophenyl phenyl ethe	1129976	9.07	9.60	12.5	25.0 - 158	72.6	76.8	ug/L	5.62	61.0
4-Nitrophenol	1129976	3.94	3.47	12.5	0.100 - 132	31.5	27.8	ug/L	12.5	131
Acenaphthene	1129976	8.98	9.94	12.5	47.0 - 145	71.8	79.5	ug/L	10.2	48.0
Acenaphthylene	1129976	8.95	9.99	12.5	33.0 - 145	71.6	79.9	ug/L	11.0	74.0
Aniline	1129976	6.40	8.07	12.5	70.0 - 130	51.2 *	64.6 *	ug/L	23.1	50.0
Anthracene	1129976	9.57	10.2	12.5	27.0 - 133	76.6	81.6	ug/L	6.32	66.0
Benzidine	1129976	0.220	0.630	12.5	0.100 - 36.9	1.76	5.04	ug/L	96.5 *	90.0
Benzo(a)anthracene	1129976	9.62	10.3	12.5	33.0 - 143	77.0	82.4	ug/L	6.78	53.0
Benzo(a)pyrene	1129976	9.77	10.1	12.5	17.0 - 163	78.2	80.8	ug/L	3.27	72.0
Benzo(b)fluoranthene	1129976	10.4	10.0	12.5	24.0 - 159	83.2	80.0	ug/L	3.92	71.0
Benzo(ghi)perylene	1129976	8.48	7.96	12.5	0.100 - 219	67.8	63.7	ug/L	6.24	97.0
Benzo(k)fluoranthene	1129976	8.53	10.7	12.5	11.0 - 162	68.2	85.6	ug/L	22.6	63.0
Benzyl Butyl phthalate	1129976	9.29	10.4	12.5	0.100 - 152	74.3	83.2	ug/L	11.3	60.0
Bis(2-chloroethoxy)methane	1129976	8.42	9.79	12.5	33.0 - 184	67.4	78.3	ug/L	15.0	54.0
Bis(2-chloroethyl)ether	1129976	7.85	9.49	12.5	12.0 - 158	62.8	75.9	ug/L	18.9	108
Bis(2-chloroisopropyl)ether	1129976	7.72	9.17	12.5	36.0 - 166	61.8	73.4	ug/L	17.2	76.0
Bis(2-ethylhexyl)phthalate	1129976	9.41	10.3	12.5	8.00 - 158	75.3	82.4	ug/L	9.00	82.0
Chrysene (Benzo(a)phenanthrene)	1129976	9.93	10.5	12.5	17.0 - 168	79.4	84.0	ug/L	5.63	87.0
Dibenz(a,h)anthracene	1129976	8.44	8.01	12.5	0.100 - 227	67.5	64.1	ug/L	5.17	126
Diethyl phthalate	1129976	9.98	10.1	12.5	0.100 - 120	79.8	80.8	ug/L	1.25	100
Dimethyl phthalate	1129976	9.75	10.3	12.5	0.100 - 120	78.0	82.4	ug/L	5.49	183
Di-n-butylphthalate	1129976	10.6	11.4	12.5	1.00 - 120	84.8	91.2	ug/L	7.27	47.0
Di-n-octylphthalate	1129976	8.88	9.63	12.5	4.00 - 146	71.0	77.0	ug/L	8.11	69.0
Fluoranthene(Benzo(j,k)fluorene)	1129976	10.4	10.9	12.5	26.0 - 137	83.2	87.2	ug/L	4.69	66.0
Fluorene	1129976	9.54	9.92	12.5	59.0 - 121	76.3	79.4	ug/L	3.98	38.0
Hexachlorobenzene	1129976	9.13	10.0	12.5	0.100 - 152	73.0	80.0	ug/L	9.15	55.0
Hexachlorobutadiene	1129976	6.02	7.40	12.5	24.0 - 120	48.2	59.2	ug/L	20.5	62.0
Hexachlorocyclopentadiene	1129976	3.57	4.63	12.5	3.97 - 68.7	28.6	37.0	ug/L	25.6	50.0
Hexachloroethane	1129976	5.84	7.18	12.5	40.0 - 120	46.7	57.4	ug/L	20.6	52.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Indeno(1,2,3-cd)pyrene	1129976	8.67	8.13	12.5	0.100 - 171	69.4	65.0	ug/L	6.55	99.0
Isophorone	1129976	8.76	9.76	12.5	21.0 - 196	70.1	78.1	ug/L	10.8	93.0
Naphthalene	1129976	7.83	9.14	12.5	21.0 - 133	62.6	73.1	ug/L	15.5	65.0
Nitrobenzene	1129976	8.12	9.65	12.5	35.0 - 180	65.0	77.2	ug/L	17.2	62.0
n-Nitrosodiethylamine	1129976	7.68	9.00	12.5	18.0 - 100	61.4	72.0	ug/L	15.9	50.0
N-Nitrosodimethylamine	1129976	5.72	6.24	12.5	30.2 - 74.9	45.8	49.9	ug/L	8.57	50.0
n-Nitroso-di-n-butylamine	1129976	8.87	9.46	12.5	48.4 - 98.5	71.0	75.7	ug/L	6.41	50.0
N-Nitrosodi-n-propylamine	1129976	8.24	9.49	12.5	0.100 - 230	65.9	75.9	ug/L	14.1	87.0
N-Nitrosodiphenylamine (as DPA	1129976	9.54	10.4	12.5	49.3 - 94.2	76.3	83.2	ug/L	8.65	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1129976	8.39	8.85	12.5	22.0 - 147	67.1	70.8	ug/L	5.37	70.0
Pentachlorobenzene	1129976	8.28	9.10	12.5	39.3 - 93.7	66.2	72.8	ug/L	9.50	50.0
Pentachlorophenol	1129976	8.30	8.26	12.5	14.0 - 176	66.4	66.1	ug/L	0.453	86.0
Phenanthrene	1129976	9.74	10.6	12.5	54.0 - 120	77.9	84.8	ug/L	8.48	39.0
Phenol	1129976	3.56	4.14	12.5	5.00 - 120	28.5	33.1	ug/L	14.9	64.0
Pyrene	1129976	9.61	10.0	12.5	52.0 - 120	76.9	80.0	ug/L	3.95	49.0
Pyridine	1129976	3.20	4.47	12.5	11.2 - 50.6	25.6	35.8	ug/L	33.2	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	625306	CCV	45400	100000	ug/L	45.4	10.0 - 150	126610377
2-Fluorophenol-SURR	625306	CCV	45700	100000	ug/L	45.7	10.0 - 150	126610377
4-Terphenyl-d14-SURR	625306	CCV	48600	50000	ug/L	97.2	30.0 - 150	126610377
Nitrobenzene-d5-SURR	625306	CCV	48800	50000	ug/L	97.6	30.0 - 150	126610377
Phenol-d6-SURR	625306	CCV	47100	100000	ug/L	47.1	10.0 - 150	126610377
2,4,6-Tribromophenol	1129976	Blank	40.4	100	ug/L	40.4	10.0 - 150	126610381
2,4,6-Tribromophenol	1129976	LCS	49.4	100	ug/L	49.4	10.0 - 150	126610382
2,4,6-Tribromophenol	1129976	LCS Dup	48.2	100	ug/L	48.2	10.0 - 150	126610383
2-Fluorophenol-SURR	1129976	Blank	29000	100000	ug/L	29.0	10.0 - 150	126610381
2-Fluorophenol-SURR	1129976	LCS	23800	100000	ug/L	23.8	10.0 - 150	126610382
2-Fluorophenol-SURR	1129976	LCS Dup	28000	100000	ug/L	28.0	10.0 - 150	126610383
4-Terphenyl-d14-SURR	1129976	Blank	24400	50000	ug/L	48.8	30.0 - 150	126610381
4-Terphenyl-d14-SURR	1129976	LCS	17600	50000	ug/L	35.2	30.0 - 150	126610382
4-Terphenyl-d14-SURR	1129976	LCS Dup	18300	50000	ug/L	36.6	30.0 - 150	126610383
Nitrobenzene-d5-SURR	1129976	Blank	23400	50000	ug/L	46.8	30.0 - 150	126610381
Nitrobenzene-d5-SURR	1129976	LCS	15200	50000	ug/L	30.4	30.0 - 150	126610382
Nitrobenzene-d5-SURR	1129976	LCS Dup	18200	50000	ug/L	36.4	30.0 - 150	126610383
Phenol-d6-SURR	1129976	Blank	20800	100000	ug/L	20.8	10.0 - 150	126610381
Phenol-d6-SURR	1129976	LCS	19700	100000	ug/L	19.7	10.0 - 150	126610382
Phenol-d6-SURR	1129976	LCS Dup	22800	100000	ug/L	22.8	10.0 - 150	126610383
2,4,6-Tribromophenol	2317694	Unknown	46.7	98.7	ug/L	47.3	10.0 - 150	126610384
2-Fluorophenol-SURR	2317694	Unknown	31.4	98.7	ug/L	31.8	10.0 - 150	126610384
4-Terphenyl-d14-SURR	2317694	Unknown	26.2	49.4	ug/L	53.0	30.0 - 150	126610384
Nitrobenzene-d5-SURR	2317694	Unknown	26.9	49.4	ug/L	54.5	30.0 - 150	126610384
Phenol-d6-SURR	2317694	Unknown	22.6	98.7	ug/L	22.9	10.0 - 150	126610384

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

SPL The Science of Sure

AQU1-G

AquaTech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Project
1111149

Printed 08/01/2024

Analytical Set **1131094** **EPA 615**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1129458	ND	0.159	0.500	ug/L	126611370
2,4,5-TP (Silvex)	1129458	ND	0.0893	0.300	ug/L	126611370

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.8	80.0 - 115		126611369
2,4 Dichlorophenoxyacetic acid	102	150	ug/L	67.9	80.0 - 115	*	126611383
2,4 Dichlorophenoxyacetic acid	110	150	ug/L	73.3	80.0 - 115	*	126611390
2,4 Dichlorophenoxyacetic acid	123	150	ug/L	82.3	80.0 - 115		126611404
2,4,5-TP (Silvex)	144	150	ug/L	96.1	80.0 - 115		126611369
2,4,5-TP (Silvex)	133	150	ug/L	88.6	80.0 - 115		126611383
2,4,5-TP (Silvex)	140	150	ug/L	93.3	80.0 - 115		126611390
2,4,5-TP (Silvex)	143	150	ug/L	95.2	80.0 - 115		126611404

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1129458	0.641	0.748	1.00	0.100 - 319	64.1	74.8	ug/L	15.4	30.0
2,4,5-TP (Silvex)	1129458	0.718	0.835	1.00	0.100 - 244	71.8	83.5	ug/L	15.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	135	200	ug/L	67.5	0.100 - 313	126611369
2,4-Dichlorophenylacetic Acid		CCV	105	200	ug/L	52.5	0.100 - 313	126611383
2,4-Dichlorophenylacetic Acid		CCV	117	200	ug/L	58.5	0.100 - 313	126611390
2,4-Dichlorophenylacetic Acid		CCV	132	200	ug/L	66.0	0.100 - 313	126611404
2,4-Dichlorophenylacetic Acid	1129458	Blank	12.8	200	ug/L	6.40	0.100 - 313	126611370
2,4-Dichlorophenylacetic Acid	1129458	LCS	58.1	200	ug/L	29.0	0.100 - 313	126611371
2,4-Dichlorophenylacetic Acid	1129458	LCS Dup	74.1	200	ug/L	37.0	0.100 - 313	126611372
2,4-Dichlorophenylacetic Acid	2317694	Unknown	1.15	2.01	ug/L	57.2	0.100 - 313	126611388

* 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.); 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.); 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.); DFTPP - GC/MS Tuning Compound

Email: Kilgore.ProjectManagement@spllabs.com

Chain of Custody Record

SPL

SPL Order ID:

1825 East Plano Parkway
Suite 160
Plano, TX 75074
P: (972) 424-6422
Environmental.customerservice@SPL-inc.com

Project Information

Company Name: SPL - Kilgore

Requested Turn Around Time (Less than 2 days must be verified with lab)
✓ 7-10 Days Rush ____ 5-7 Days ____ 3 Days ____ 2 Days ____ 1 Day ____ ASAP

Project Name:

Project Location:

Project #: PO #:

Sampler Name: Sampler Company:

Sampler Signature:

Regulatory Program: ☐ NPDES ☐ RCRA ☐ DW ☐ OTHER*

Thermometer ID: _____ Corrected temp. at receipt: _____ °C Initials: _____

Send Report To

Contact Name: Chad Cooper

Contact Email: environmental.subcontract@spllabs.com

Phone: (972) 424-6422 Cell:

Send Invoice To (Only if different from above)

Contact Name: SPL, Inc

Contact Email: ap@spllabs.com Cell:

Lab Notes / Special Instructions*

Complete QC Required.
NO DRY Weight NEEDED unless noted.

*Please confirm conditional requests prior to additional analysis

Matrix Codes

WW - Wastewater W - Wipes
DW - Drinking Water A - Air
S - Solid L - Liquid

Preservation Codes

1 - Ice 4 - HNO3
2 - H2SO4 5 - NaOH
3 - HCl 6 - None
7 - Other

Container Type

P - Plastic
G - Glass
O -

Requested Analysis

	Customer Sample ID	Sample Collection Info Date	Time	Matrix	# of Containers	Container Type	Pres. Code	(C)omp / (G)rab	Parts / Interval	Hold	TOC	DOC							Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
-001	24070267-001	7/17/24	0800	L	2	G	1,2	G			X	X									
-002	24070267-002	7/17/24	0730	L	2	G	1,2	G			X	X									
-003	24070267-003	7/17/24	0600	L	2	G	1,2	G			X	X									
-004	24070267-004	7/17/24	0630	L	2	G	1,2	G			X	X									
-005																					
-006																					
-007																					
-008																					
-009																					
-010																					

RELINQUISHED BY / AFFILIATION	Date	Time	RECEIVED BY / AFFILIATION	Date	Time
x [signature]	7/17/24	1745	x Fed Ex	7/17/24	1745
x Fed Ex	7/18/24	1030	x [signature]	7/18/24	1030
x			x		

ORIGIN ID:DNEA (972) 424-6422
CHAD COOPER
SPL-PLANO
1825 E PLANO PKWY
STE 160
PLANO, TX 75074
UNITED STATES US

SHIP DATE: 17JUL24
ACTWGT: 20.00 LB
CAD: 255473337/INET4730
DIMS: 27x14x15 IN
BILL SENDER

TO SUBCONTRACT
SPL INC. - KILGORE
2600 DUDLEY ROAD
KILGORE TX 75662
(903) 984-0551 REF:
INV:
PO: DEPT:

583J9/E0E4/9AE3

FedEx Express

THU - 18 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7774 5921 5321

46 GGGA

75662
TX-US SHV

7/18
Date 1115 RT
Temp: 4.0 / 3.3 Tech
Therm#: 6444 Corr Fact: -0.7 C

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.

AQUA-TECH LABORATORIES, INC.

ATL - Bryan Facility:
635 Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3193

ATL - Austin Facility:
3512 Montopolis Drive
Austin, TX 78744
(512) 301-9559
Fax (512) 301-9552

Chain-of-Custody & Analysis Request

SHIPPED TO:
SPL-Kilgore (T104704201)
2600 Dudley Road
Kilgore, TX 75662
Phone: (903) 984-0551
Fax: (903) 984-5914

C-O-C #

290 - H023561

T104704371

Page 1 of 3

All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analysis Request for: Sample ID: H023561-01 Sampled: 07/16/24 09:00 Matrix: Non Potable Laboratory ID: 2317699

Nonylphenol - ASTM D7065-11	Phenol - EPA 420.4 R1	Hexachlorophene - EPA 604.1	PCB - EPA 608
Pesticides 10054 - EPA 608.3	Organophoshorus Pesticides 10054 - EPA 614	Herbicides - EPA 615	Mirex & Dicofol & Methoxychlor - EPA 617
Chlorpyrifos 10054 - EPA 622	Cresols NP - EPA 625	Semivolatiles (10054/55) - EPA 625	Carbaryl - EPA 632
Diuron - EPA 632	CN NP - SM4500 CN E 2011	CN Amenable NP - SM4500 CN G 2011	

CONTAINERS SUPPLIED: (ATL indicates cooler number in parentheses for each container - only required if more than one cooler listed below.)

( ) H023561-01 [A] - [SUB] ANA CN 0.25LP NaOH *[pH >10]*
( ) H023561-01 [B] - [SUB] ANA CN 0.25LP NaOH *[pH >10]*
( ) H023561-01 [C] - Carbaryl-Diuron 1LG
( ) H023561-01 [D] - Herbicides 1LG
( ) H023561-01 [E] - Hexachlorophene 1LG
( ) H023561-01 [F] - Pest OrgPO4 1LG
( ) H023561-01 [G] - Pesticides 1LG
( ) H023561-01 [H] - Phenol 1LG H2SO4 *[pH <2]*
( ) H023561-01 [I] - NONYLPHENOL 1LG H2SO4 *[pH <2]*
( ) H023561-01 [J] - Semivolatiles 1LG Amber

See next page(s) for list of analytes requested.

Relinquished by: (print & sign)	[X] ATL-Austin [ ] ATL - Bryan [ ] Sampler	Date	Time	[X] Iced [X] Custody Sealed [ ] Not Chilled
Suzanne Rudd	Suzanne Rudd	7-17-24	1600 ~~1700~~ Late	
Carrier & Tracking Number: UPS	Cooler 1: Red 1Z C41 445 01 4571 0537			Sample Info "X" all that apply
Received by: (print & sign)	[✓] Received in Lab	Date	Time	[✓] Received Iced [✓] CTU [✓] Condition Good [ ] Not Rec'd Iced
Rayshawn Thompson SPL, Inc.	Rayshawn Thompson	7/18/24	1030	

Line below documents condition at receipt in lab (Shipped to) listed above.

Cooler Temperature (°C)	Temp. Read (TR)	Corrected Temp. (CT)	Thermometer ID
Cooler 1			
N/A	N/A	N/A	

Please email reports to: reporting@aqua-techlabs.com

Please return cooler(s) to: Austin Facility

Abbreviations: DW - Drinking Water; NP - Non-Potable Water; S - Solid; CTU - Custody Transfer Unbroken; STP - Sterile Plastic; LP - Liter Plastic; LG - Liter Glass

Aqua-Tech Comments and Special Instructions

Use sample ID as PO#

Need new 2010 MALs. Please J Flag metals < MRL & note all metals < MDL on reports.

Do not further sub-contract any analysis. Keep in house or call for further instructions.

QUA-TECH LABORATORIES, INC.

Bryan Facility:
Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
(979) 778-3193

ATL - Austin Facility:
3512 Montopolis Drive
Austin, TX 78744
(512) 301-9559
Fax (512) 301-9552

Chain-of-Custody & Analysis Request

C:\ELMNT\Print\sco_ATL 022924.rpt

T104704371

C-O-C #

290 - H023561

All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analytes Requested for Multiple Component Tests

H023561-01

Carbaryl EPA 632
Carbaryl

Chlorpyrifos 10054 EPA 622
Chlorpyrifos

CN Amenable NP SM4500 CN G 2011
Cyanide (amenable)

CN NP SM4500 CN E 2011
Cyanide, Total

Cresols NP EPA 625

2,4-Dimethylphenol	2-Methylphenol (o-Cresol)	3&4-Methylphenol (m&p-Cresol)	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-Cresol)
4-Chloro-3-methylphenol (4-Chloro-m-Cresol)	Total Cresols		

Diuron EPA 632
Diuron

Herbicides EPA 615

2,4,5-TP (Silvex)	2,4-D		

Hexachlorophene EPA 604.1
Hexachlorophene

Mirex & Dicofol & Methoxychlor EPA 617

Dicofol	Methoxychlor	Mirex	

Nonylphenol ASTM D7065-11
Nonylphenol

PCB EPA 608

PCB-1016	PCB-1221	PCB-1232	PCB-1242
PCB-1248	PCB-1254	PCB-1260	

Pesticides 10054 EPA 608.3

4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin
alpha-BHC	beta-BHC	Chlordane	delta-BHC
Dicofol	Dieldrin	Endosulfan I	Endosulfan II
Endosulfan sulfate	Endrin	Endrin aldehyde	gamma-BHC (Lindane)

AQUA-TECH LABORATORIES, INC.

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Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3193

ATL - Austin Facility:
3512 Montopolis Drive
Austin, TX 78744
(512) 301-9559
Fax (512) 301-9552

Chain-of-Custody & Analysis Request

C:\ELMNT\Print\sco_ATL 022924.rpt

T104704371

C-O-C #

290 - H023561

All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analytes Requested for Multiple Component Tests

Heptachlor	Heptachlor epoxide	Methoxychlor	Mirex
Toxaphene			

Organophoshorus Pesticides 10054 EPA 614

Demeton	Diazinon	Guthion	Malathion
Parathion-ethyl	Parathion-methyl		

Phenol EPA 420.4 R1

Phenolics, Total Recoverable

Semivolatiles (10054/55) EPA 625

1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Diphenylhydrazine	2,4,5-Trichlorophenol
2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol
2-Nitrophenol	3&4-Methylphenol (m&p-Cresol)	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-Cresol)
4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol (4-Chloro-m-Cresol)	4-Chlorophenyl phenyl ether	4-Nitrophenol
Acenaphthene	Acenaphthylene	Anthracene	Benzidine
Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene
Benzo (k) fluoranthene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate	Butyl benzyl phthalate	Chrysene	Cresol(s)
Dibenz (a,h) anthracene	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno (1,2,3-cd) pyrene
Isophorone	Naphthalene	Nitrobenzene	N-Nitrosodiethylamine
N-Nitrosodimethylamine	N-Nitroso-di-n-butylamine	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine
o-Cresol	Pentachlorobenzene	Pentachlorophenol	Phenanthrene
Phenol	Pyrene	Pyridine	

1111149 CoC Print Group 001 of 001

45 LBS 2 OF 10

DWT: 24,16,16

FROM:
SAMPLE CUSTODIAN
(512) 301-9598
AQUA-TECH LABORATORIES
3512 MONTOPOLIS DRIVE
AUSTIN TX 78744-1418

TX 756 0-32

UPS NEXT DAY AIR **1**
TRACKING #: 1Z C41 445 01 4571 0537

SHIP TO:
SAMPLES
(903) 984-0551
SPL/ANA-LAB CORP
2600 DUDLEY RD.
KILGORE TX 75662-3730

BILLING: P/P

7/16 1130 RT
Date Time Tech
Temp: 3.7 / 3.0 C

Therm#: 6444 Corr Fact: -0.7 C

WS 27.0.9 Microsoft Pri 25.08.06/2024

Fold here and place in label pouch

7/17/24 Red

EMSL Analytical, Inc.
5950 Fairbanks N. Houston Rd. Houston, TX 77040
Phone/Fax: (713) 686-3635 / (713) 686-3645
http://www.EMSL.com / houstonlab@emsl.com

EMSL Order ID: 152404619
Customer ID: AQTL34
Customer PO:
Project ID:

Attn: Reporting
Aqua-Tech Laboratories, Inc.
635 Phil Gramm Blvd.
Bryan, TX 77807

Phone: (979) 778-3707
Fax:
Received: 07/17/2024
Analyzed: 07/25/2024

Proj: C-O-C #230-H023561

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
H023561-01 152404619-0001	7/18/2024 08:50 AM	50	1282	0.1397	None Detected	ND	0.18	<0.18	0.00 - 0.68

Collection Date/Time: 07/16/2024 09:00 AM

Analyst(s)
Michelle Leggett (1)

Michelle Leggett, Laboratory Manager
or Other Approved Signatory

Any questions please contact Michelle Leggett.

Initial report from: 07/25/2024 13:37:05

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by EMSL Analytical, Inc. Houston, TX Accredited by Texas Commision on Env. Quality

152404619

Chain-of-Custody & Analysis Request

AQUA-TECH LABORATORIES, INC.

ATL - Bryan Facility:
635 Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3193

ATL - Austin Facility:
3512 Montopolis Drive
Austin, TX 78744
(512) 301-9559
Fax (512) 301-9552

SHIPPED TO:
EMSL Analytical, Inc.
5950 Fairbanks North Houston Rd
Houston, TX 77040
Phone: (713) 686-3635
Fax: -

C-O-C #

230 - H023561

T104704371

All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analysis Request for: **Sample ID: H023561-01** Sampled: 07/16/24 ~~00:00~~ 0900 Matrix: Non Potable **Laboratory ID >>**

AL 7/17/24

Asbestos - EPA 100.2

wrong time CSW

CONTAINERS SUPPLIED: (ATL indicates cooler number in parentheses for each container - only required if more than one cooler listed below.)

( ) H023561-01 [N] - U 1 LG

See next page(s) for list of analytes requested.

Relinquished by: (print & sign)	[X] ATL-Austin [ ] ATL - Bryan [ ] Sampler	Date	Time	[X] Iced [X] Custody Sealed [ ] Not Chilled
Suzanne Rudd	Suzan Rudd	7/16/24	1453	

Carrier & Tracking Number: UPS Cooler 1: EEA 12206T00019843 5446

Sample Info "X" all that apply

Received by: (print & sign)	[ ] Received in Lab	Date	Time	[ ] Received Iced [ ] CTU [ ] Condition Good [ ] Not Rec'd Iced
Ann Zofcin	Ann Zofcin	7/17/24	1030AM	

Line below documents condition at receipt in lab (shipped to) listed above.

Cooler Temperature (°C)	Temp. Read (TR)	Corrected Temp. (CT)	Thermometer ID
Cooler 1			
N/A	N/A	N/A	

Please email reports to: reporting@aqua-techlabs.com

Please return cooler(s) to: Austin Facility

Abbreviations: DW - Drinking Water; NP - Non-Potable Water; S - Solid; CTU - Custody Transfer Unbroken; StP - Sterile Plastic; LP - Liter Plastic; LG - Liter Glass

Aqua-Tech Comments and Special Instructions

Use sample ID as PO#

Need new 2010 MALs. Please J Flag metals < MRL & note all metals < MDL on reports.

IR#6 CF
0.9°C / 0.0°C

Do not further sub-contract any analysis. Keep in house or call for further instructions.

OrderID: 152404619

152404619

Chain-of-Custody & Analysis Request

C:\ELMNT\Print\sco_ATL 022924.rpt

T104704371

ATL - Bryan Facility:
635 Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3193

ATL - Austin Facility:
3512 Montopolis Drive
Austin, TX 78744
(512) 301-9559
Fax (512) 301-9552

C-O-C #

230 - H023561

All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analytes Requested for Multiple Component Tests

H023561-01

Asbestos EPA 100.2

Asbestos

ATTACHMENT I

AFFECTED LANDOWNERS

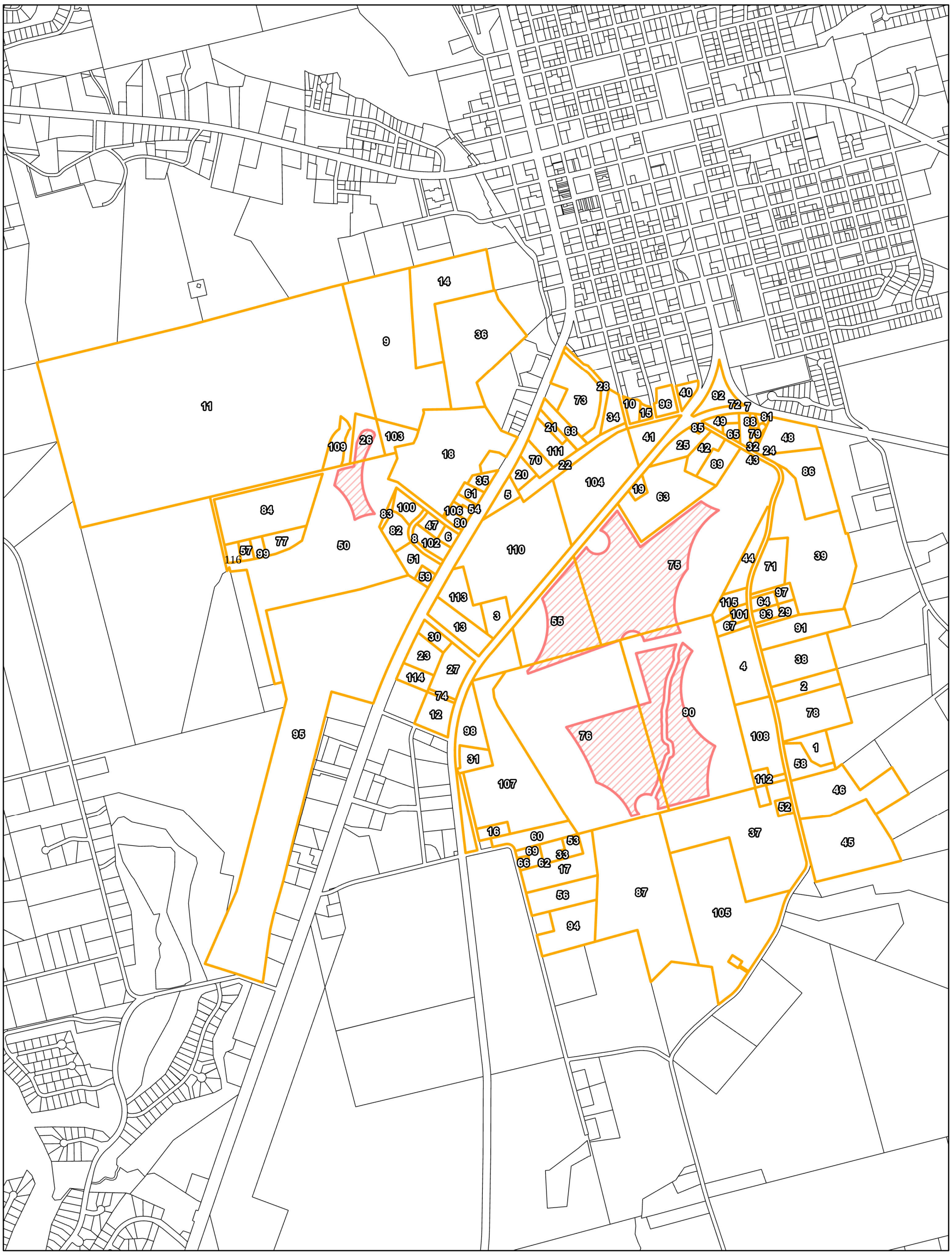
CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

USGS MAP



VICINITY MAP

1 INCH = 10 MILES

CITY OF BURNET

BURNET COUNTY, TEXAS

N W E S

0 1,200

1 INCH = 1,200 FEET

Legend

- Affected Landowners
- Sludge Application Area
- Parcels

Disclaimer: This product is offered for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property, governmental and/or political boundaries or related facilities to said boundary. No express warranties are made by Quiddity Engineering concerning the accuracy, completeness, reliability, or usability of the information included within this exhibit.

QUIDDITY

Texas Board of Professional Engineers Registration No. F-23290

CITY OF BURNET
WASTEWATER TREATMENT PLANT
AFFECTGED LANDOWNERS

ID	Landowner	Address	City	State	Zip
1	HILL ORAN (DEC'D)	201 STELLAR DR	BURNET	TX	78611
2	RAMIREZ FRANCISCO	PO BOX 1366	BURNET	TX	78611
3	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
4	HAILE JERRY L & GLORIA	1700 COUNTY ROAD 340	BURNET	TX	78611
5	STATE OF TEXAS	PO BOX 15426	AUSTIN	TX	78761
6	SRS HWY 281 PROPERTY LLC	20014 GLEN LAKE DR	SPRING	TX	77388
7	WILLS JUSTIN & RACHEL CHRISTIAN	112 CRAWFORD CT	BURNET	TX	78611
8	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
9	WILLIAMS ERIN SAUCIER & BRIAN ALLEN	121 GABRIELS LOOP	GEORGETOWN	TX	78628
10	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
11	ENTEGRIS INC	117 JONATHAN BLVD N	CHASKA	MN	55318
12	ENGINEERED PRECISION CASTING CO	952 PALMER AVE	MIDDLETOWN	NJ	07748
13	HOFFPAUIR JAMES LEE	PO BOX 1281	LAMPASAS	TX	76550
14	JUDY & THRASHER INC	2618 ROLLING OAKS	SAN MARCOS	TX	78666
15	PEREZ VICTOR JR	104 EAST VALLEY	BURNET	TX	78611
16	MILAM TOMMY ETUX THELMA	521 COUNTY ROAD 340A	BURNET	TX	78611
17	FELPS TYREL	PO BOX 37	BURNET	TX	78611
18	HILL COUNTRY FELLOWSHIP CHURCH	200 HOUSTON CLINTON DR	BURNET	TX	78611
19	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
20	BANKS DONALD N	2811 LONCOLA CT	ROUND ROCK	TX	78681
21	PAVELKA RODINA LLC	14126 RIVERWAY DR	CORPUS CHRISTI	TX	78410
22	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
23	PINKY AND THE BRAIN LLC	2105 S WATER ST	BURNET	TX	78611
24	Q CRAWFORD PROPERTY DEVELOPMENT LLC	241 STANBERRY LN	BURNET	TX	78611
25	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
26	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
27	SILICON HILL COUNTRY LTD	203 REPRO DR	BURNET	TX	78611
28	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
29	KAVIKONDALA NAGASHIVA SHARMA	106 WOLSELEY DR	HUTTO	TX	78634
30	RP TROUT HOLDINGS LLC	32 HIGHWAY 35 N	ROCKPORT	TX	78382
31	REIFEL ROBERT & RANDI	515 CR 340A	BURNET	TX	78611
32	COLEY CHRIS & COLEY LINETTE	100 CRAWFORD LN	BURNET	TX	78611
33	HNC PROPERTY LLC	1436 CR 200 B	BURNET	TX	78611
34	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
35	SHOESTRING HOLDINGS LLC	315 MEADOWLAKES DR	MARBLE FALLS	TX	78654
36	WOODS TERESA REID & PAMELA REID WILL & KERRY G REID	505 HOLIDAY DR	BURNET	TX	78611
37	MAYNARD JANICE LESTER	2210 CR 340	BURNET	TX	78611
38	MCCOY WILLIAM H & CHRISTINE D; DANIELLE M & SANTOS DE LOS SANTOS J	1701 CR 340	BURNET	TX	78611
39	WALTON AMELIA H ETUX GLENN R	1243 COUNTY ROAD 340	BURNET	TX	78611
40	SCHLOSSER CHRISTOPHER M & JOSEPHINE C	1104 S BOUNDARY	BURNET	TX	78611
41	MYERS CHERYL ANN	205 S BEACH ST	BURNET	TX	78611
42	ATKISON CASH D & TAVANA G	1042 CR 340	BURNET	TX	78611
43	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
44	SALINAS ELIAS P ETUX MARIA L	165 WASTEWATER PLANT DR	BURNET	TX	78611
45	LENTZ MATTHEW WILEY	2201 CR 340	BURNET	TX	78611
46	MEEKS RANDALL	915 CR 330	BURNET	TX	78611
47	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
48	BERRYHILL DONNIE LYNN ETUX ELEANOR	PO BOX 172	MARBLE FALLS	TX	78654
49	SHAW VERNON	PO BOX 1482	BURNET	TX	78611
50	NO DATA AVAILABLE				
51	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
52	LESTER GEORGE FRED & LYNDA FELPS LESTER LIFE ESTATES	P O BOX 208	BURNET	TX	78611
53	HNC PROPERTY LLC	1436 CR 200 B	BURNET	TX	78611
54	BRAITHWAIT CAROLLEE TRUSTEE	6805 SLERET AVE	VANCOUVER	WA	98664
55	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
56	CARDENAS AMBER FELPS	753 CR 340A	BURNET	TX	78611
57	LYNCH JONATHAN BRIAN	PO BOX 116	BURNET	TX	78611
58	GRISHAM ROBIN & JAMES THOMAS GRISHAM	119 ESCALERA PARKWAY	GEORGETOWN	TX	78628
59	LRS INVESTMENTS LLC	104 HILLS WAY	HORSESHOE BAY	TX	78657

CITY OF BURNET
WASTEWATER TREATMENT PLANT
AFFECTGED LANDOWNERS

ID	Landowner	Address	City	State	Zip
60	HALL DUDLEY	541 COUNTY ROAD 340A	BURNET	TX	78611
61	SILTONS PALM PROPERTIES LLC	PO BOX 5205	MONTECITO	CA	93108
62	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
63	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
64	BAKER TIMOTHY DWAYNE & SYLVIA HAY	305 RM 1431	MARBLE FALLS	TX	78654
65	FLORES CHRISTY & HECTOR FLORES ORDONEZ &	6400 CRAIGWOOD CIR	AUSTIN	TX	78725
66	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
67	HICKMAN WILLIAM A ETUX SHIRLEY	1634 CR 340	BURNET	TX	78611
68	HEUSS ROY A & NANCY L	1401 COUNTY ROAD 100	BURNET	TX	78611
69	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
70	PANDILLO INK LLC	PO BOX 426	BURNET	TX	78611
71	ULBRICH JAMES C	PO BOX 1395	BURNET	TX	78611
72	HOFF TIMOTHY MATTHEW & KENDRA CLARK	1139 CR 340	BURNET	TX	78611
73	HOUSING AUTHORITY OF CITY OF BURNET	P O BOX 1369	BURNET	TX	78611
74	ENGINEERED PRECISION CASTING CO	952 PALMER AVE	MIDDLETOWN	NJ	07748
75	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
76	NO DATA AVAILABLE				
77	GIBRALTAR GLOBAL LLC	PO BOX 519	BURNET	TX	78611
78	OAK KNOLL ENTERPRISES LLC	5800 MANOR RD	AUSTIN	TX	78723
79	STROH RYAN MATTHEW & GINA LOUISE	104 CRAWFORD COURT	BURNET	TX	78611
80	LLANO CHICKEN LLC	PO BOX 869	BURNET	TX	78611
81	HERNANDEZ JONATHAN & KIM NGAN NGUYEN HUYNH	116 CRAWFORD CT	BURNET	TX	78611
82	TEKMAK BURNET HOTEL LP	3021 RIDGE RD A-120	ROCKWALL	TX	75032
83	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
84	ENTEGRIS INC	117 JONATHAN BLVD N	CHASKA	MN	55318
85	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
86	TEJAS REIN LLC	251 OAK BEND DR	LIBERTY HILL	TX	78642
87	FELPS LLC	PO BOX 208	BURNET	TX	78611
88	RALA-MALIG REA ANGELA MENRIGE & WARREN EUGEN SAURE MALIG	108 CRAWFORD CT	BURNET	TX	78611
89	SHUEMAKER GEORGE D & YVONNE B	1128 COUNTY ROAD 340	BURNET	TX	78611
90	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
91	FLORES IMELDA HERNANDEZ LANDAVERDE GUMARO	1649 CR 340	BURNET	TX	78611
92	AUSTIN CITY OF	PO BOX 1088	AUSTIN	TX	78767
93	MUCCIGROSSI BRYAN	1625 CR 340	BURNET	TX	78611
94	FELPS WILLIAM L	PO BOX 37	BURNET	TX	78611
95	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
96	ROBERTSON CLAIRE S & WILLIAM P	500 S BOUNDARY	BURNET	TX	78611
97	RAMIREZ JOSH	1615 CR 340	BURNET	TX	78611
98	REIFEL ROBERT & RANDI	515 CR 340A	BURNET	TX	78611
99	LYNCH JONATHAN BRIAN	PO BOX 116	BURNET	TX	78611
100	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
101	HICKMAN PEGGY JEAN	1622 COUNTY ROAD 340	BURNET	TX	78611
102	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
103	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
104	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
105	DUNNAM NANCY LESTER	1305 BRIGHTON BEND LANE	CEDAR PARK	TX	78613
106	YERBY SPORTS TX I, LLC (54.94%) & YERBY SPORTS TX II, LLC (45.06%)	2106 EDGECOURT DR	HILLSBOROUGH	CA	94010
107	GILBERT RAY ETUX SHERYL	509 COUNTY ROAD 340A	BURNET	TX	78611
108	HAILE JERRY L & GLORIA	1700 COUNTY ROAD 340	BURNET	TX	78611
109	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
110	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
111	PAVELKA RODINA LLC	14126 RIVERWAY DR	CORPUS CHRISTI	TX	78410
112	COPELAND JOHN R	PO BOX 61	BERTRAM	TX	78605
113	BURNET CITY OF	PO BOX 1369	BURNET	TX	78611
114	VISSER DAVID E	2301 S WATER ST	BURNET	TX	78611
115	WELLS CLEO K LIFE ESTATE	181 WASTEWATER PLANT DR	BURNET	TX	78611
116	GOPARTH LLC	3433 MULBERRY CREEK DR	AUSTIN	TX	78732

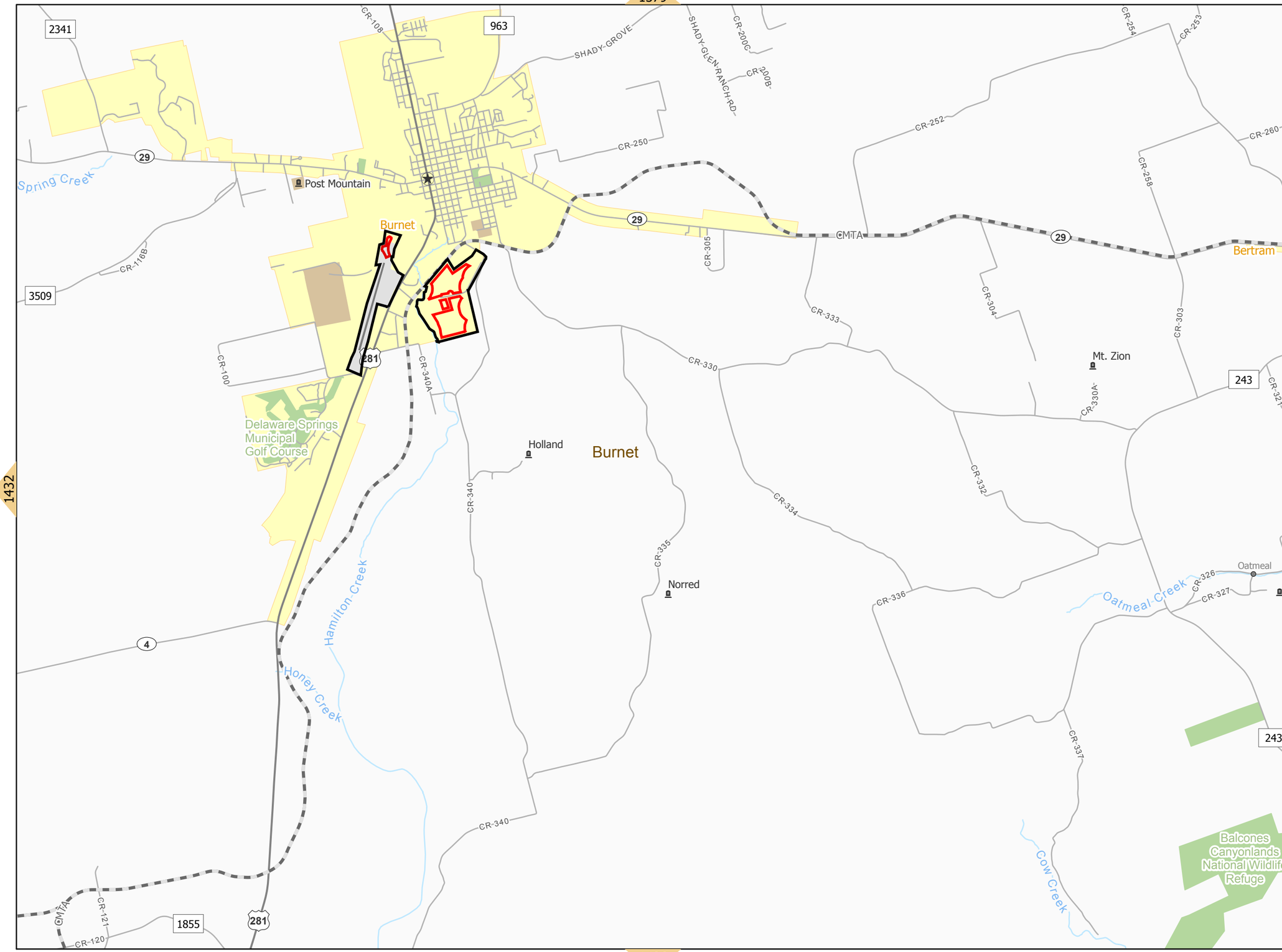
ATTACHMENT K

GENERAL HIGHWAY MAP

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337



Texas Department of Transportation

City of Burnet property boundary

Sludge application sites

TxDOT HIGHWAY MAP

CITY OF BURNET

WASTEWATER TREATMENT PLANT

PERIT NO. WQ0010793002

JONES | CARTER

Texas Board of Professional Engineers Registration: No. F-439
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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ATTACHMENT M

USDA NRCS SOIL MAP

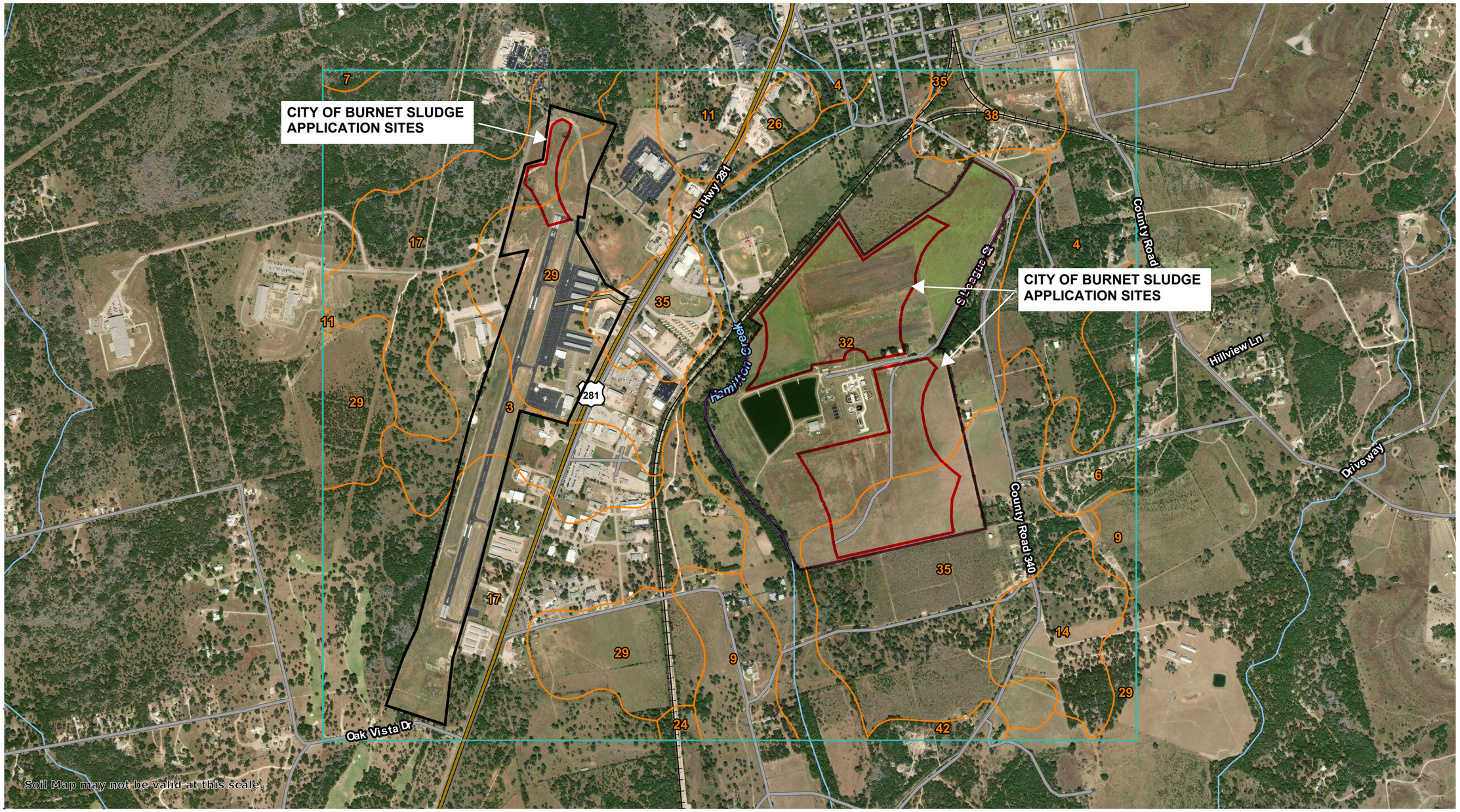
CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

98° 15' 26" W 98° 12' 8" W

30° 45' 8" N 30° 45' 8" N



30° 43' 34" N 30° 43' 34" N

98° 15' 26" W 98° 12' 8" W

Map Scale: 1:14,200 if printed on B landscape (17" x 11") sheet.

N

Meters: 0 200 400 800 1200

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

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

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

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

Soil Survey Area: Blanco and Burnet Counties, Texas
Survey Area Data: Version 15, Sep 14, 2018

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

Date(s) aerial images were photographed: Aug 2, 2016—Nov 30, 2017

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Anhalt clay, 1 to 3 percent slopes	85.4	4.8%
4	Bolar clay loam, 1 to 3 percent slopes	107.9	6.1%
6	Brackett association, 1 to 8 percent slopes	41.5	2.3%
7	Brackett-Real association, 10 to 30 percent slopes	2.9	0.2%
9	Doss silty clay, moist, 1 to 5 percent slopes	55.4	3.1%
11	Eckrant-Rock outcrop association, 1 to 10 percent slopes	107.1	6.0%
14	Heaton loamy fine sand, 1 to 5 percent slopes	54.4	3.1%
17	Hensley association, undulating	372.6	21.0%
24	Krum clay, 1 to 3 percent slopes	4.0	0.2%
26	Lewisville clay loam, 0 to 1 percent slopes	16.4	0.9%
29	Luckenbach clay loam, 1 to 3 percent slopes	247.5	13.9%
32	Oakalla silty clay loam, 0 to 2 percent slopes, occasionally flooded	401.7	22.6%
35	Pedernales fine sandy loam, 1 to 3 percent slopes	232.5	13.1%
38	Purves association, undulating	37.1	2.1%
42	Tarpley association, undulating	10.3	0.6%
Totals for Area of Interest		**1,776.7**	**100.0%**

ATTACHMENT N

FEMA FLOOD MAP

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
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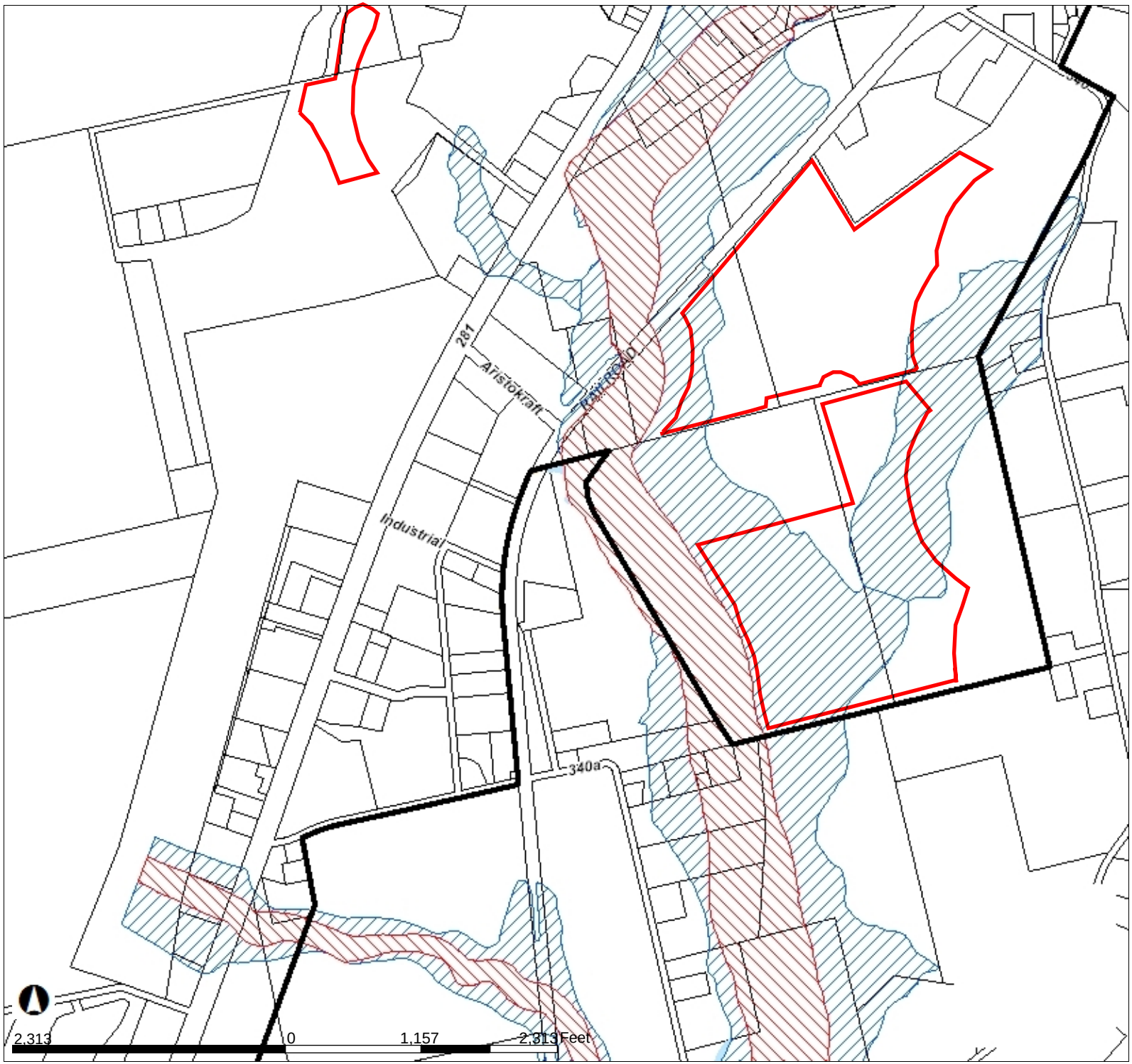
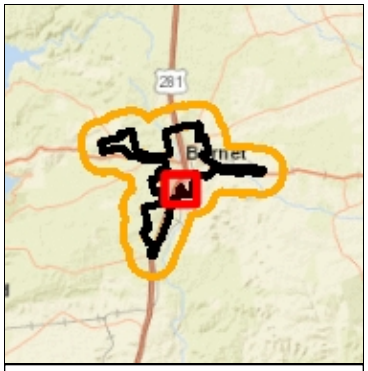




LEGEND

Floodplain

100 Year AO
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined

Floodway

Sludge land application site boundary

FEMA FLOOD PLAIN MAP

CITY OF BURNET

WASTEWATER TREATMENT PLANT
PERIT NO. WQ0010793002

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 ● Bellaire, TX 77401 ● 713.777.5337

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0480F

FIRM
FLOOD INSURANCE RATE MAP

BURNET COUNTY,

TEXAS

AND INCORPORATED AREAS

PANEL 480 OF 725
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BURNET COUNTY	481209	0480	F
BURNET, CITY OF	480092	0480	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48053C0480F

MAP REVISED
MARCH 15, 2012

Federal Emergency Management Agency

ATTACHMENT C

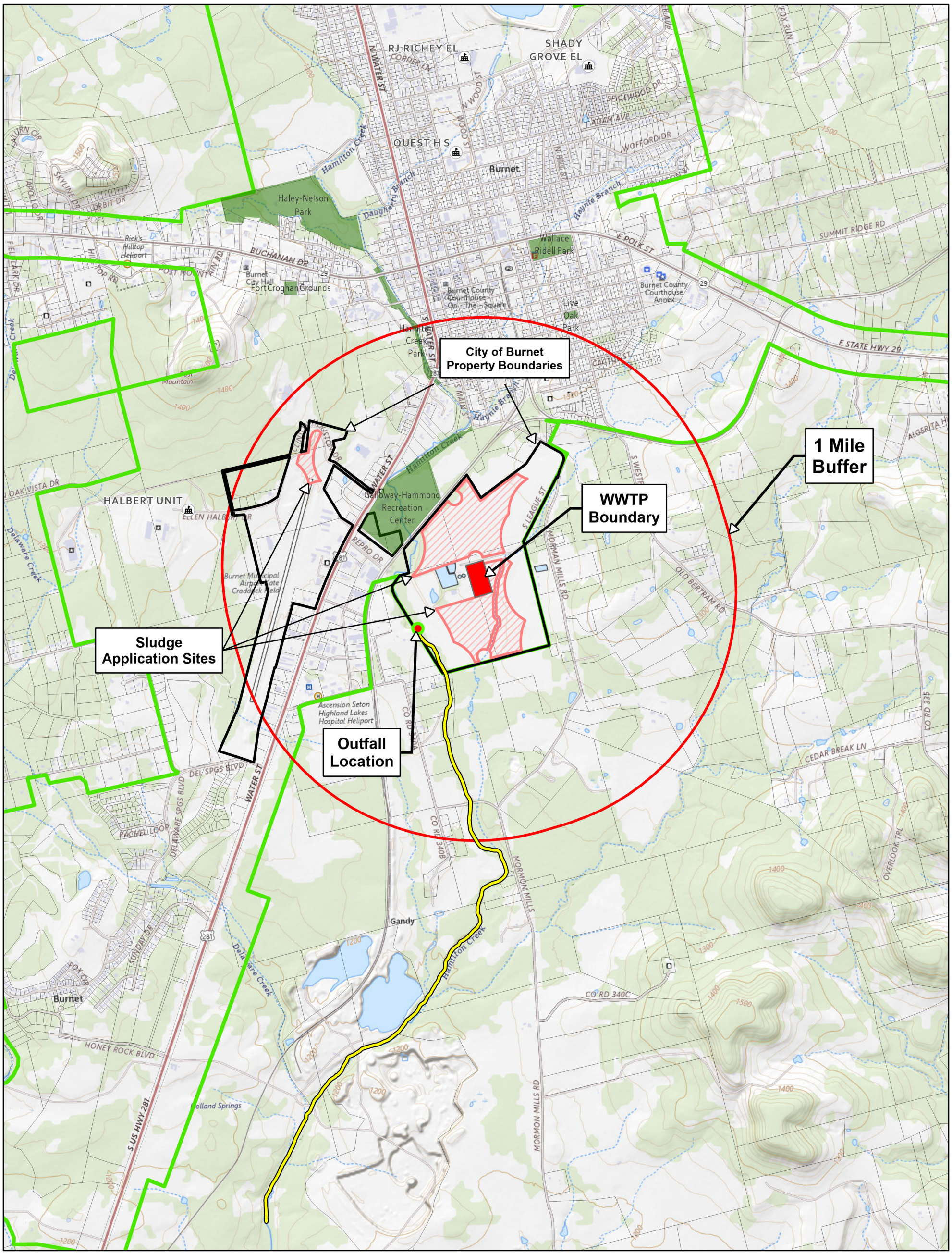
USGS MAP

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

USGS MAP



VICINITY MAP

1 INCH = 10 MILES

CITY OF BURNET

BURNET COUNTY, TEXAS

N W E S

0 2,000

1 INCH = 2,000 FEET

Legend

- Schools
- Outfall
- Discharge Route
- WWTP Boundary
- City owned Property
- Sludge Application Area
- 1 Mile Buffer
- City Limit
- Parcels
- Land & Water Resources Conservation & Recreation

Disclaimer: This product is offered for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property, governmental and/or political boundaries or related facilities to said boundary. No express warranties are made by Quiddity Engineering concerning the accuracy, completeness, reliability, or usability of the information included within this exhibit.

QUIDDITY

Texas Board of Professional Engineers Registration No. F-23290

ATTACHMENT D

SUPPLEMENTAL PERMIT INFORMATION FORM

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Burnet

   Permit No. WQ00 10793002 EPA ID No. TX 0026484

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

   301 Waste Watr Plant Drive, City of Burnet, Burnet 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: Jonathan Nguyen

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

Title: Permit Specialist

Mailing Address: 3100 Alvin Devane Blvd., Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: 512-441-9493 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jnguyen@quiddity.com

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

   The property owner is the permittee

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

   to Hamilton Creek; thence to Lake Travis in Segment No. 1404 of the Colorado 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):

   No construction is planned at this facility

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

   The land is the site of a domestic wastewater treatment plant

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:

   Click here to enter text.

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

   Click here to enter text.

The following attachments are not needed for the City of Burnet WWTP TPDES Permit Renewal:

Buffer Zone Map

Design Calculations

Solids Management Plan

Water Ballance

ATTACHMENT W

TECHNICAL REPORT WORKSHEETS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 1.7

2-Hr Peak Flow (MGD): 6.80

Estimated construction start date: ----

Estimated waste disposal start date: ----

B. Interim II Phase

Design Flow (MGD): ----

2-Hr Peak Flow (MGD): ----

Estimated construction start date: ----

Estimated waste disposal start date: ----

C. Final Phase

Design Flow (MGD): 1.7

2-Hr Peak Flow (MGD): 6.80

Estimated construction start date: ----

Estimated waste disposal start date: ----

D. Current Operating Phase

Provide the startup date of the facility: Click to enter text.

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

See Attachment E

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 E		

C. Process Flow Diagram

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

Attachment: See Attachment F

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

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

- Latitude: 30.736555
- Longitude:

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: See Attachment G

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

The wastewater treatment plant serves the area within the City of Burnet city limits east of Hilltop Drive and west of County Road 250

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
City of Burnet Sanitary Sewer System	City of Burnet	**Publicly Owned**	6,436
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: June 13, 2012

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.

The City owns all required buffer zones

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*.

The Adverse Weather Plan and Alternative for Sludge Application, Annual Sludge Report Cover Letter, WWTP TDS Study Work Plan, and Quarterly Sludge Report Cover Letter can be found in Attachment X

D. Grit and grease treatment

1. *Acceptance of grit and grease waste*

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

☐ Yes ☒ No

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

2. *Grit and grease processing*

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

3. *Grit disposal*

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

4. *Grease and decanted liquid disposal*

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

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

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 _ or TXRNE

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:

All contaminated stormwater will be captured and treated in the plant. Only uncontaminated rainfall runoff will leave the plant site

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.

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.

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.

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.

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

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.

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.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<1	<1	1	Grab	7-9-24 @ 08:50
Total Suspended Solids, mg/l	<1	<1	1	Grab	7-9-24 @ 08:50
Ammonia Nitrogen, mg/l	<0.05	<0.05	1	Grab	7-9-24 @ 08:50
Nitrate Nitrogen, mg/l	4.5	4.5	1	Grab	7-9-24 @ 08:50
Total Kjeldahl Nitrogen, mg/l	0.99	0.99	1	Grab	7-9-24 @ 08:50
Sulfate, mg/l	36.5	36.5	1	Grab	7-9-24 @ 08:50
Chloride, mg/l	190	190	1	Grab	7-9-24 @ 08:50
Total Phosphorus, mg/l	6.31	6.31	1	Grab	7-9-24 @ 08:50
pH, standard units	7.8	7.8	1	Grab	7-9-24 @ 08:50
Dissolved Oxygen*, mg/l	6.5	6.5	1	Grab	7-9-24 @ 08:50
Chlorine Residual, mg/l	0.20	0.20	1	Grab	7-9-24 @ 08:50
E.coli (CFU/100ml) freshwater	<1.0	<1.0	1	Grab	7-9-24 @ 08:50
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	682	682	1	Grab	7-9-24 @ 08:50
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	7-9-24 @ 08:50
Alkalinity ($CaCO_3$)*, mg/l	250	250	1	Grab	7-9-24 @ 08:50

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Richard Harrison

Facility Operator's License Classification and Level: B

Facility Operator's License Number: WW0033054

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process:

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Agricultural Land Application	On-Site Owner or Operator	Bulk		Class B: Density of Fecal Coliform	Option 10. Incorporate within 6 hrs
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: City of Burnet Land Application Site

TCEQ permit or registration number: WQ0010793002

County where disposal site is located: Burnet

E. Transportation method

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

Name of the hauler: City of Burnet

Hauler registration number: 21386

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☒ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment:
- USDA Natural Resources Conservation Service Soil Map:

  Attachment:
- Federal Emergency Management Map:

  Attachment:
- Site map:

  Attachment:

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:

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:

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:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

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.

D. Site development plan

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

Attach the following documents to the application.

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

  Attachment:
- Copy of the closure plan

  Attachment:
- Copy of deed recordation for the site

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

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

  Attachment:
- Procedures to prevent the occurrence of nuisance conditions

  Attachment:

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:

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

A. Additional authorizations

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

☒ Yes ☐ No

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

Wastewater reuse – R10793002

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: David Vaughn

Title: City Manager

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

Owner of the drinking water supply:

Distance and direction to the intake:

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

Attachment:

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet:

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).

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).

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Hamilton Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

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:

C. Downstream perennial confluences

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

None

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.

E. Normal dry weather characteristics

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

Creek is dry

Date and time of observation:

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

☐ Oil field activities

☐ Upstream discharges

☐ Septic tanks

☒ Urban runoff

☐ Agricultural runoff

☐ Other(s), specify:

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:

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☒

Date and time sample(s) collected: 7/16/2024 9:00 am

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin	<0.01	<0.01	1	0.01
Aluminum				2.5
Anthracene	<0.987	<0.987	1	10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine	<19.7	<19.7	1	50
Benzo(a)anthracene	<0.987	<0.987	1	5
Benzo(a)pyrene	<0.987	<0.987	1	5
Bis(2-chloroethyl)ether	<0.987	<0.987	1	10
Bis(2-ethylhexyl)phthalate	7.45	7.45	1	10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl	<2.52	<2.52	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane				10
Chloroform				10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene	<0.987	<0.987	1	5
p-Chloro-m-Cresol	<2.37	<2.37	1	10
4,6-Dinitro-o-Cresol	<7.9	<7.9	1	50
p-Cresol				10
Cyanide **(*2)**	0.005	0.005	1	10
4,4'- DDD	<0.0101	<0.0101	1	0.1
4,4'- DDE	0.00709	0.00709	1	0.1
4,4'- DDT	<0.0101	<0.0101	1	0.02
2,4-D	<0.503	<0.503	1	0.7
Demeton (O and S)	<0.0504	<0.0504	1	0.20
Diazinon	<0.0504	<0.0504	1	0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene	<0.987	<0.987	1	10
o-Dichlorobenzene				10
p-Dichlorobenzene	<0.987	<0.987	1	10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol	<0.0504	<0.0504	1	1
Dieldrin	<0.0101	<0.0101	1	0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate	<7.4	<7.4	1	10
Diuron	<0.0454	<0.0454	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.0101	<0.0101	1	0.02
Endosulfan Sulfate	<0.0101	<0.0101	1	0.1
Endrin	<0.0101	<0.0101	1	0.02
Ethylbenzene				10
Fluoride				500
Guthion	<0.0504	<0.0504	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<0.987	<0.987	1	5
Hexachlorobutadiene	<0.987	<0.987	1	10
Hexachlorocyclohexane (alpha)	<0.0101	<0.0101	1	0.05
Hexachlorocyclohexane (beta)	<0.0101	<0.0101	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0101	<0.0101	1	0.05
Hexachlorocyclopentadiene	<8.88	<8.88	1	10
Hexachloroethane	<0.987	<0.987	1	20
Hexachlorophene	<2.49	<2.49	1	10
Lead				0.5
Malathion	<0.0504	<0.0504	1	0.1
Mercury				0.005
Methoxychlor	<0.0101	<0.0101	1	2
Methyl Ethyl Ketone				50
Mirex	<0.0101	<0.0101	1	0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene	<0.987	<0.987	1	10
N-Nitrosodiethylamine	<0.987	<0.987	1	20
N-Nitroso-di-n-Butylamine	<0.987	<0.987	1	20
Nonylphenol	<31.9	<31.9	1	333
Parathion (ethyl)	<0.0504	<0.0504	1	0.1
Pentachlorobenzene	<0.987	<0.987	1	20
Pentachlorophenol	<0.987	<0.987	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<0.987	<0.987	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	0.201	<0.204	7	0.2
Pyridine	<5.33	<5.33	1	20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene	<0.202	<0.202	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☒

Date and time sample(s) collected: 7/16/2024 9:00 am

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
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) **(*1)**				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide **(*2)**	0.005	0.005	1	10
Phenols, Total	<1.48	<1.48	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
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<0.987	<0.987	1	10
2,4-Dichlorophenol	<0.987	<0.987	1	10
2,4-Dimethylphenol	<2.37	<2.37	1	10
4,6-Dinitro-o-Cresol	<7.9	<7.9	1	50
2,4-Dinitrophenol	<8.88	<8.88	1	50
2-Nitrophenol	<0.987	<0.987	1	20
4-Nitrophenol	<0.987	<0.987	1	50
P-Chloro-m-Cresol	<2.37	<2.37	1	10
Pentalchlorophenol	<0.987	<0.987	1	5
Phenol	<1.48	<1.48	1	10
2,4,6-Trichlorophenol	<0.987	<0.987	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<0.987	<0.987	1	10
Acenaphthylene	<0.987	<0.987	1	10
Anthracene	<0.987	<0.987	1	10
Benzidine	<19.7	<19.7	1	50
Benzo(a)Anthracene	<0.987	<0.987	1	5
Benzo(a)Pyrene	<0.987	<0.987	1	5
3,4-Benzofluoranthene	<0.987	<0.987	1	10
Benzo(ghi)Perylene	<0.987	<0.987	1	20
Benzo(k)Fluoranthene	<0.987	<0.987	1	5
Bis(2-Chloroethoxy)Methane	<0.987	<0.987	1	10
Bis(2-Chloroethyl)Ether	<0.987	<0.987	1	10
Bis(2-Chloroisopropyl)Ether	<0.987	<0.987	1	10
Bis(2-Ethylhexyl)Phthalate	7.45	7.45	1	10
4-Bromophenyl Phenyl Ether	<0.987	<0.987	1	10
Butyl benzyl Phthalate	<7.4	<7.4	11	10
2-Chloronaphthalene	<0.987	<0.987	1	10
4-Chlorophenyl phenyl ether	<0.987	<0.987	1	10
Chrysene	<0.987	<0.987	1	5
Dibenzo(a,h)Anthracene	<0.987	<0.987	1	5
1,2-(o)Dichlorobenzene	<0.987	<0.987	1	10
1,3-(m)Dichlorobenzene	<0.987	<0.987	1	10
1,4-(p)Dichlorobenzene	<0.987	<0.987	1	10
3,3-Dichlorobenzidine	<4.94	<4.94	1	5
Diethyl Phthalate	<5.63	<5.63	1	10
Dimethyl Phthalate	<4.74	<4.74	1	10
Di-n-Butyl Phthalate	<7.4	<7.4	1	10
2,4-Dinitrotoluene	<3.46	<3.46	1	10
2,6-Dinitrotoluene	<0.987	<0.987	1	10
Di-n-Octyl Phthalate	<0.987	<0.987	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.987	<0.987	1	20
Fluoranthene	<0.987	<0.987	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.987	<0.987	1	10
Hexachlorobenzene	<0.987	<0.987	1	5
Hexachlorobutadiene	<0.987	<0.987	1	10
Hexachlorocyclo-pentadiene	<8.88	<8.88	1	10
Hexachloroethane	<0.987	<0.987	1	20
Indeno(1,2,3-cd)pyrene	<0.987	<0.987	1	5
Isophorone	<0.987	<0.987	1	10
Naphthalene	<0.987	<0.987	1	10
Nitrobenzene	<0.987	<0.987	1	10
N-Nitrosodimethylamine	<6.91	<6.91	1	50
N-Nitrosodi-n-Propylamine	<0.987	<0.987	1	20
N-Nitrosodiphenylamine	<0.987	<0.987	1	20
Phenanthrene	<0.987	<0.987	1	10
Pyrene	<0.987	<0.987	1	10
1,2,4-Trichlorobenzene	<0.987	<0.987	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	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0101	<0.0101	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0101	<0.0101	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0101	<0.0101	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0101	<0.0101	1	0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	<0.0101	<0.0101	1	0.02
4,4-DDE	0.00709	0.00709	1	0.1
4,4,-DDD	<0.0101	<0.0101	1	0.1
Dieldrin	<0.0101	<0.0101	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.0101	<0.0101	1	0.02
Endosulfan Sulfate	<0.0101	<0.0101	1	0.1
Endrin	<0.0101	<0.0101	1	0.02
Endrin Aldehyde	<0.0101	<0.0101	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.204	<0.204	1	0.2
Toxaphene	<0.202	<0.202	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.

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.

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:

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 2

Average Daily Flows, in MGD: 0.0051

Significant IUs – non-categorical:

Number of IUs: 3

Average Daily Flows, in MGD: 0.0042

Other IUs:

Number of IUs: Click to enter text.

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

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

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

Click to enter text.

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 here to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: Austin American Technology Corporation

SIC Code: 3679

Telephone number: 512-756-4150 Fax number:

Contact name: Todd Roundtree

Address: 401 Industrial Blvd.

City, State, and Zip Code: Burnet, TX 78611

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).

Circuit board cleaners are tested by running deionized water and a surfactant though the machine. The Deionized water and surfactant are discharged to the sewer. There is no wastewater produced in the manufactur of washers. Manufacture includes some drilling of holes and cutting of parts manufactured off site.

C. Product and service information

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

Manufacturing of circuit board cleaners

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: < 100 gallons per day

Discharge Type: ☐ Continuous ☒ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 1,800 gallons per day

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here 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 here to enter text

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: Sure Cast Inc.

SIC Code: 3324

Telephone number: 512-756-6500 Fax number:

Contact name: Brian Mantz

Address: 200 Sure Cast

City, State, and Zip Code: Burnet, TX 78611

B. Product and service information

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

Production of ferrous parts by investment casting

C. 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).

Washing of casting molds and dissolving of excess ceramic from finished parts

D. Flow rate information

Process Wastewater:

Discharge, in gallons/day: 2,500

Discharge Type: ☐ Continuous ☒ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 750

Discharge Type: ☒ Continuous ☐ Batch ☒ Intermittent

Process wastewater means any water that, during manufacturing or processing, comes in direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

E. Pretreatment standards

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: 40 CFR 464 - Metal Molding and Casting
Subcategories: Subpart C - Ferrous Casting

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Descriptions of Pretreatment Categories and subcategories can be found at https://tinyurl.com/qs4fp3h and https://tinyurl.com/rwcgdtl

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: Tank Holding Corporation

SIC Code: 3089

Telephone number: 877-756-2388 Fax number:

Contact name: Peggy Ramey

Address: 307 Industrial Blvd

City, State, and Zip Code: Burnet, TX 78611

B. Product and service information

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

Molding of plastic parts

C. 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).

No process wastewater. Mold and parts are air cooled

D. Flow rate information

Process Wastewater:

Discharge, in gallons/day: 0

Discharge Type: ☐ Continuous ☐ Batch ☒ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 400

Discharge Type: ☒ Continuous ☐ Batch ☐ Intermittent

Process wastewater means any water that, during manufacturing or processing, comes in direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

E. Pretreatment standards

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: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Descriptions of Pretreatment Categories and subcategories can be found at https://tinyurl.com/qs4fp3h and https://tinyurl.com/rwcgdtl

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

8/15/2024 - Left voice mail

A. General information

Company Name: Entegris Inc.

SIC Code: 2869

Telephone number: 512-756-7314 Fax number:

Contact name: Robert Juler

Address: 706 Houston Clinton Drive

City, State, and Zip Code: Burnet, TX 78611

B. Product and service information

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

Manufacturing of specialty materials

C. 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).

Purification of specialty materials

D. Flow rate information

Process Wastewater:

Discharge, in gallons/day: 1,200

Discharge Type: ☐ Continuous ☐ Batch ☒ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 650

Discharge Type: ☐ Continuous ☐ Batch ☒ Intermittent

Process wastewater means any water that, during manufacturing or processing, comes in direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

E. Pretreatment standards

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: 40 CFR 414 - Organic Chemicals, Plastics, and Synthetic Fibers
Subcategories: Subpart H - Specialty Organic Chemicals

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Descriptions of Pretreatment Categories and subcategories can be found at https://tinyurl.com/qs4fp3h and https://tinyurl.com/rwcgdtl

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

8/15/2024 - left voice mail

Company Name: Stealth Products

SIC Code: 339110

Telephone number: 512-715-9995 Fax number: 512-715-9954

Contact name: Cesar Perea

Address: 104A John Kelly Drive

City, State, and Zip Code: Burnet, TX 78611

B. Product and service information

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

Manufacture of medical devices for power and manual wheelchairs

C. 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).

Pressure washing of machined parts. No chemicals are used in the washing.

D. Flow rate information

Process Wastewater:

Discharge, in gallons/day: 533

Discharge Type: ☒ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 1469

Discharge Type: ☐ Continuous ☐ Batch ☒ Intermittent

Process wastewater means any water that, during manufacturing or processing, comes in direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

E. Pretreatment standards

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: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Descriptions of Pretreatment Categories and subcategories can be found at https://tinyurl.com/qs4fp3h and https://tinyurl.com/rwcgdtl

ATTACHMENT E

TREATMENT UNITS AND PROCESS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

WASTEWATER TREATMENT UNITS
DIMENSIONS AND VOLUMES
CITY OF BURNET
WASTEWATER TREATMENT PLANT

The existing City of Burnet Wastewater Treatment Plant is a 1.70 MGD facility. The existing phase consists of one (1) biological nutrient removal plant with mechanical and manual bar screens, anaerobic basin, anoxic basin, clarifiers, digester and sludge thickener. Following are the dimensions and volumes of each treatment unit in each train.

Anaerobic Basin

Dimensions:
Length = 23 ft.
Width = 23 ft.
Side water depth = 16.35 ft.
Surface area = 523 ft^2
Volume
= (2)(23 ft.)(23 ft.)(16.35 ft.)
= 17,298 ft^3

Anoxic Basin

Dimensions:
Surface Area = 2,952 ft^2
Side water depth = 16.35 ft
Volume:
= (2,952 ft^2)(16.35 ft)
= 48,265 ft^3

Aeration Basin

Dimensions:
Surface Area = 8,945 ft^2
Side water depth = 16.35 ft
Volume:
= (8,945 ft^2)(16.35 ft)
= 146,250 ft^3

Clarifiers

Dimensions:

Surface Area = 3,775 ft^2

Side water depth = 14 ft

Volume:

= (2)(3,775 ft^2) (14 ft.)

= 105,715 ft^3

Digester

Dimensions:

Surface Area = 5,888 ft^2

Side water depth = 10 ft

Volume:

= 58,880 ft^3

Sludge Thickener

Dimensions:

Surface Area = 1,385 ft^2

Side water depth = 18 ft

Volume

= 24,937 ft^3

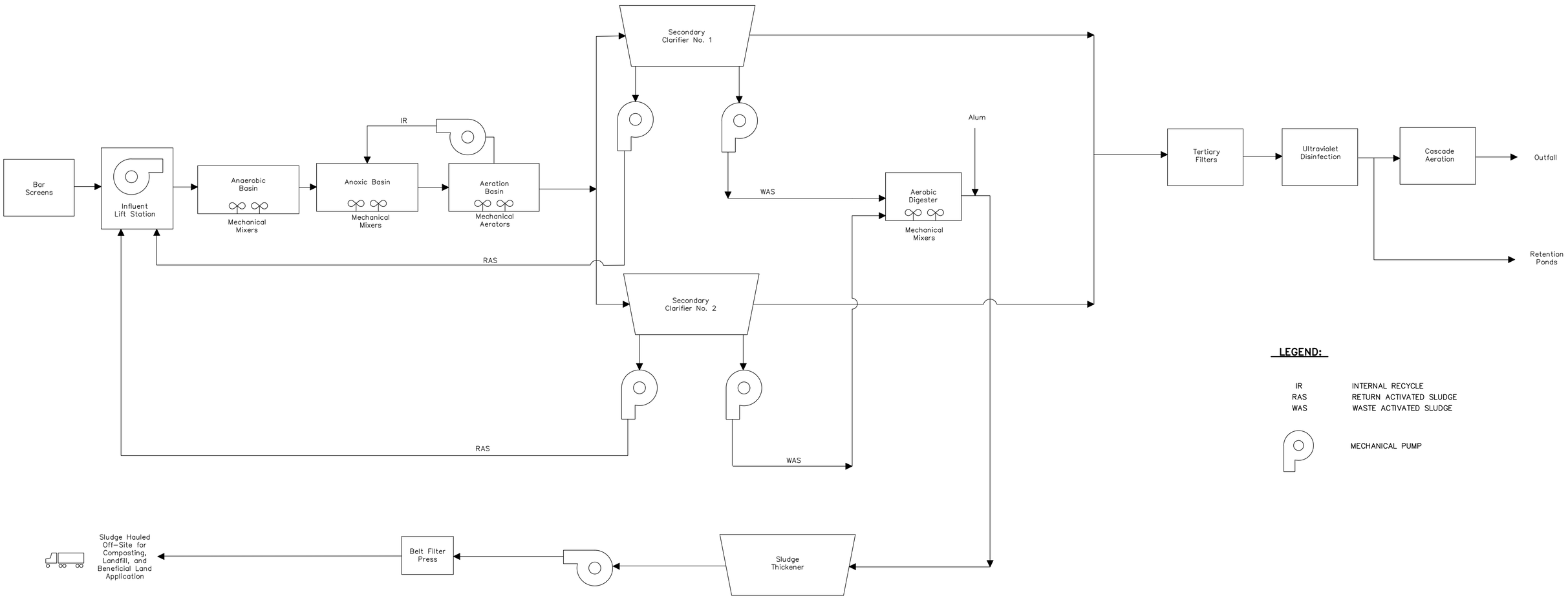
ATTACHMENT F

FLOW SCHEMATIC(S)

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337



FLOW DIAGRAM
NOT TO SCALE

FLOW SCHEMATIC
CITY OF BURNET, TEXAS
1.7 MGD WASTEWATER TREATMENT PLANT

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

ATTACHMENT R

SLUDGE ANALYSIS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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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
1106863

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed 06/26/2024
17:46

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1106863_r10_05_ProjectQC	SPL Kilgore Project P:1106863 C:BUR9 Project Quality Control Groups	21
1106863_r99_09_CoC__1_of_1	SPL Kilgore CoC BUR9 1106863_1_of_1	5
	Total Pages:	44

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

1

SAMPLE CROSS REFERENCE

Project
1106863

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307462	*WTP*	06/12/2024	10:15:00	06/13/2024

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 Glass 4 oz w/Teflon lined lid
Bottle 05 Glass 4 oz w/Teflon lined lid
Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 05 (5 grams)
Bottle 07 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 04 (0.5 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1123945) Volume: 6.00000 mL <== Derived from 05 (0.5 grams)
Bottle 09 Prepared Bottle: TCLP Extract (Batch 1124018) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 10 Prepared Bottle: TCLP Extract for Metals (Batch 1124018) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 11 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1124018) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 12 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.4 grams)
Bottle 13 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 05 (1.0 grams)
Bottle 14 Prepared Bottle: TCLP Acid Digestion (Batch 1124278) Volume: 50.00000 mL <== Derived from 10 (10 ml)
Bottle 15 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1124368) Volume: 50.00000 mL <== Derived from 10 (2.5 ml)
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124486) Volume: 1.00000 mL <== Derived from 11 (100 ml)
Bottle 17 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1124695) Volume: 10.00000 mL <== Derived from 11 (200 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124943) Volume: 10.00000 mL <== Derived from 11 (1 ml)
Bottle 19 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1124968) Volume: 10.00000 mL <== Derived from 04 (2.0 grams)
Bottle 20 Prepared Bottle: TCLP Extract for TVOA (Batch 1125155)<== Derived from 01 (0 ml)
Bottle 21 Prepared Bottle: TEDLAR BAG (Batch 1125155) Volume: 300.00000 mL <== Derived from 01 (15 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	19	1124968	06/20/2024	1125339	06/21/2024
EPA 9056	06	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	14	1124278	06/17/2024	1124804	06/19/2024
EPA 6020A	12	1123743	06/14/2024	1124374	06/17/2024
EPA 6020A	12	1123743	06/14/2024	1124802	06/19/2024
EPA 6010C	12	1123743	06/14/2024	1125847	06/26/2024
EPA 7470 A	15	1124368	06/18/2024	1124427	06/18/2024
EPA 7471B 2	07	1123946	06/14/2024	1124258	06/17/2024
EPA 6010C	12	1123743	06/14/2024	1124349	06/17/2024
EPA 6010C	12	1123743	06/14/2024	1124249	06/17/2024
EPA 350.1 2	08	1123945	06/14/2024	1124786	06/19/2024
EPA 8260B	21	1125155	06/20/2024	1125316	06/21/2024
EPA 8081A	17	1124695	06/19/2024	1125278	06/26/2024
EPA 8270C	16	1124486	06/18/2024	1125255	06/21/2024
EPA 8151	18	1124943	06/20/2024	1125393	06/22/2024
EPA 351.2 2	13	1124232	06/17/2024	1124497	06/18/2024

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1

SAMPLE CROSS REFERENCE

Project
1106863

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307462	*WTP*	06/12/2024	10:15:00	06/13/2024

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 Glass 4 oz w/Teflon lined lid
Bottle 05 Glass 4 oz w/Teflon lined lid
Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 05 (5 grams)
Bottle 07 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 04 (0.5 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1123945) Volume: 6.00000 mL <== Derived from 05 (0.5 grams)
Bottle 09 Prepared Bottle: TCLP Extract (Batch 1124018) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 10 Prepared Bottle: TCLP Extract for Metals (Batch 1124018) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 11 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1124018) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 12 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.4 grams)
Bottle 13 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 05 (1.0 grams)
Bottle 14 Prepared Bottle: TCLP Acid Digestion (Batch 1124278) Volume: 50.00000 mL <== Derived from 10 (10 ml)
Bottle 15 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1124368) Volume: 50.00000 mL <== Derived from 10 (2.5 ml)
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124486) Volume: 1.00000 mL <== Derived from 11 (100 ml)
Bottle 17 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1124695) Volume: 10.00000 mL <== Derived from 11 (200 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124943) Volume: 10.00000 mL <== Derived from 11 (1 ml)
Bottle 19 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1124968) Volume: 10.00000 mL <== Derived from 04 (2.0 grams)
Bottle 20 Prepared Bottle: TCLP Extract for TVOA (Batch 1125155)<== Derived from 01 (0 ml)
Bottle 21 Prepared Bottle: TEDLAR BAG (Batch 1125155) Volume: 300.00000 mL <== Derived from 01 (15 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307463	*WWTP*	06/12/2024	11:15:00	06/13/2024

Email: Kilgore.ProjectManagement@spllabs.com

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

1

SAMPLE CROSS REFERENCE

Project
1106863

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

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 Glass 4 oz w/Teflon lined lid
Bottle 05 Glass 4 oz w/Teflon lined lid
Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 07 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 04 (0.5 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1123945) Volume: 6.00000 mL <== Derived from 04 (0.5 grams)
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Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124943) Volume: 10.00000 mL <== Derived from 11 (1 ml)
Bottle 20 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1124968) Volume: 10.00000 mL <== Derived from 03 (2.0 grams)
Bottle 21 Prepared Bottle: TCLP Extract for TVOA (Batch 1125155)<== Derived from 01 (0 ml)
Bottle 22 Prepared Bottle: TEDLAR BAG (Batch 1125155) Volume: 300.00000 mL <== Derived from 01 (15 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	20	1124968	06/20/2024	1125339	06/21/2024
EPA 9056	06	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	14	1124278	06/17/2024	1124804	06/19/2024
EPA 6020A	12	1123743	06/14/2024	1124374	06/17/2024
EPA 6020A	12	1123743	06/14/2024	1124802	06/19/2024
EPA 7470 A	15	1124368	06/18/2024	1124427	06/18/2024
EPA 7471B 2	07	1123946	06/14/2024	1124258	06/17/2024
EPA 6010C	12	1123743	06/14/2024	1124349	06/17/2024
EPA 6010C	12	1123743	06/14/2024	1124249	06/17/2024
EPA 350.1 2	08	1123945	06/14/2024	1124844	06/20/2024
EPA 8260B	22	1125155	06/20/2024	1125316	06/21/2024
EPA 8081A	17	1124695	06/19/2024	1125278	06/26/2024
EPA 8270C	16	1124486	06/18/2024	1125255	06/21/2024
EPA 8151	18	1124943	06/20/2024	1125393	06/22/2024
EPA 351.2 2	13	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

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SPL The Science of Sure

1
2

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Project
1106863

Printed: 06/26/2024

RESULTS

Sample Results

2307462 **WTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 10:15:00

		Prepared:	06/13/2024	12:13:04	Calculated	06/13/2024	12:13:04	CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Shipping	Verified					

		Prepared:	06/26/2024	17:18:00	Analyzed	06/26/2024	17:18:00	WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Check Limits	Completed					

EPA 350.1 2	Prepared:	1123945	06/14/2024	08:50:54	Analyzed	1124786	06/19/2024	07:08:00	AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	46.9 *	mg/kg	0.339			08
	* Dry Weight Basis						

EPA 351.2 2	Prepared:	1124232	06/17/2024	11:20:17	Analyzed	1124497	06/18/2024	10:23:00	AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1920 *	mg/kg	27.7		7727-37-9	13
	* Dry Weight Basis						

EPA 6010C	Prepared:	1123743	06/14/2024	12:30:00	Analyzed	1124349	06/17/2024	11:14:00	KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Potassium	201 *	mg/kg	132		7440-09-7	12

EPA 6010C	Prepared:	1123743	06/14/2024	12:30:00	Analyzed	1124249	06/17/2024	11:31:00	KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus	15500 *	mg/kg	26.4		7723-14-0	12

EPA 6010C	Prepared:	1123743	06/14/2024	12:30:00	Analyzed	1125847	06/26/2024	16:03:00	CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Printed: 06/26/2024

2307462 **WTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 10:15:00

EPA 6010C Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1125847 06/26/2024 16:03:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Copper	7550 *	mg/kg	26.4		7440-50-8	12

* Dry Weight Basis

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124374 06/17/2024 20:19:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	23.7 *	mg/kg	1.32		7440-38-2	12
NELAC	Cadmium, Total	<0.264 *	mg/kg	0.264		7440-43-9	12
NELAC	Lead, Total	1.89 *	mg/kg	0.264		7439-92-1	12
NELAC	Molybdenum, Total	1.35 *	mg/kg	0.791		7439-98-7	12

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124802 06/19/2024 18:01:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	4.75 *	mg/kg	0.264		7440-47-3	12
NELAC	Nickel, Total	2.51 *	mg/kg	0.264		7440-02-0	12
NELAC	Selenium, Total	<0.264 *	mg/kg	0.264		7782-49-2	12
NELAC	Zinc, Total	35.2 *	mg/kg	2.64		7440-66-6	12

EPA 6020A Prepared: 1124278 06/17/2024 14:00:00 Analyzed 1124804 06/19/2024 19:01:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	14
NELAC	TCLP Barium	0.337	mg/L	0.250		7440-39-3	14
NELAC	TCLP Cadmium	<0.050	mg/L	0.050		7440-43-9	14
NELAC	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	14
NELAC	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	14
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	14
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	14

* Dry Weight Basis

EPA 7470 A Prepared: 1124368 06/18/2024 07:30:00 Analyzed 1124427 06/18/2024 10:47:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	15

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2307462 **WTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 10:15:00

EPA 7471B 2 Prepared: 1123946 06/14/2024 07:45:00 Analyzed 1124258 06/17/2024 11:23:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	<0.0133 *	mg/kg	0.0133		7439-97-6	07

* Dry Weight Basis

EPA 8081A Prepared: 1124695 06/19/2024 13:00:00 Analyzed 1125278 06/26/2024 06:35:06 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	17
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	17
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	17
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	17
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	17
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	17
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	17

EPA 8082 Prepared: 1124968 06/20/2024 14:11:23 Analyzed 1125339 06/21/2024 23:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<360 *	ug/kg	360		12674-11-2	19
NELAC	PCB-1221	<360 *	ug/kg	360		11104-28-2	19
NELAC	PCB-1232	<360 *	ug/kg	360		11141-16-5	19
NELAC	PCB-1242	<360 *	ug/kg	360		53469-21-9	19
NELAC	PCB-1248	<360 *	ug/kg	360		12672-29-6	19
NELAC	PCB-1254	<360 *	ug/kg	360		11097-69-1	19
NELAC	PCB-1260	<360 *	ug/kg	360	X	11096-82-5	19
NELAC	PCB-1262	<360 *	ug/kg	360		37324-23-5	19
NELAC	PCB-1268	<360 *	ug/kg	360		11100-14-4	19

* Dry Weight Basis

EPA 8151 Prepared: 1124943 06/20/2024 13:30:00 Analyzed 1125393 06/22/2024 01:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	18
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	18

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2307462 **WTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 10:15:00

EPA 8260B Prepared: 1125155 06/20/2024 19:35:00 Analyzed 1125316 06/21/2024 17:09:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	21
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	21
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	21
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	21
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	21
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	21
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	21
NELAC	TCLP MEK	<0.010	mg/L	0.010		78-93-3	21
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	21
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	21
NELAC	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	21

EPA 8270C Prepared: 1124486 06/18/2024 14:00:00 Analyzed 1125255 06/21/2024 04:14:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050	SD	95-95-4	16
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020	SD	88-06-2	16
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020	SD	121-14-2	16
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100	D	95-48-7	16
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080	D	108-39-4	16
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010	SD	118-74-1	16
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103	SD	87-68-3	16
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020	D	67-72-1	16
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010	SD	98-95-3	16
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050	D	87-86-5	16
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	16

EPA 8270C Prepared: 1124486 06/18/2024 14:00:00 Calculated 1125255 06/25/2024 06:56:52 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080	E	108-39-4,ect.	16

EPA 9056 Prepared: 1123634 06/13/2024 03:30:00 Analyzed 1124268 06/14/2024 13:42:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	0.930 *	mg/kg	0.324		14797-55-8	06

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10,000 mg/kg = 1%

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2307462 **WTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 10:15:00

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1124142 06/13/2024 17:25:00 Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	69.7	%	0.010			01

2307463 **WWTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 11:15:00

Prepared: 06/13/2024 12:13:06 Calculated 06/13/2024 12:13:06 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Shipping	Verified					

Prepared: 06/26/2024 17:18:00 Analyzed 06/26/2024 17:18:00 WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Check Limits	Completed					

EPA 350.1 2 Prepared: 1123945 06/14/2024 08:50:54 Analyzed 1124844 06/20/2024 08:03:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	1780 *	mg/kg	40.3			08

* Dry Weight Basis

EPA 351.2 2 Prepared: 1124232 06/17/2024 11:20:17 Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	27600 *	mg/kg	336		7727-37-9	13

* Dry Weight Basis

EPA 6010C Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124349 06/17/2024 11:27:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Potassium	2100 *	mg/kg	574		7440-09-7	12

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2307463 **WWTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 11:15:00

EPA 6010C Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124249 06/17/2024 11:35:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus	20400 *	mg/kg	115		7723-14-0	12

* Dry Weight Basis

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124374 06/17/2024 20:24:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	<5.74 *	mg/kg	5.74		7440-38-2	12
NELAC	Cadmium, Total	<1.15 *	mg/kg	1.15		7440-43-9	12
NELAC	Lead, Total	21.6 *	mg/kg	1.15		7439-92-1	12
NELAC	Molybdenum, Total	4.67 *	mg/kg	3.45		7439-98-7	12

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124802 06/19/2024 18:05:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	27.9 *	mg/kg	1.15		7440-47-3	12
NELAC	Copper, Total	566 *	mg/kg	1.15		7440-50-8	12
NELAC	Nickel, Total	34.6 *	mg/kg	1.15		7440-02-0	12
NELAC	Selenium, Total	9.39 *	mg/kg	1.15		7782-49-2	12
NELAC	Zinc, Total	1230 *	mg/kg	11.5		7440-66-6	12

EPA 6020A Prepared: 1124278 06/17/2024 14:00:00 Analyzed 1124804 06/19/2024 19:05:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	14
NELAC	TCLP Barium	0.309	mg/L	0.250		7440-39-3	14
NELAC	TCLP Cadmium	<0.050	mg/L	0.050		7440-43-9	14
NELAC	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	14
NELAC	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	14
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	14
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	14

* Dry Weight Basis

EPA 7470 A Prepared: 1124368 06/18/2024 07:30:00 Analyzed 1124427 06/18/2024 10:49:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	15

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2307463 **WWTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 11:15:00

EPA 7471B 2 Prepared: 1123946 06/14/2024 07:45:00 Analyzed 1124258 06/17/2024 11:30:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.487 *	mg/kg	0.0643		7439-97-6	07

* Dry Weight Basis

EPA 8081A Prepared: 1124695 06/19/2024 13:00:00 Analyzed 1125278 06/26/2024 06:35:06 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	17
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	17
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	17
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	17
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	17
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	17
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	17

EPA 8082 Prepared: 1124968 06/20/2024 14:11:23 Analyzed 1125339 06/21/2024 23:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<1000 *	ug/kg	1000		12674-11-2	20
NELAC	PCB-1221	<1000 *	ug/kg	1000		11104-28-2	20
NELAC	PCB-1232	<1000 *	ug/kg	1000		11141-16-5	20
NELAC	PCB-1242	<1000 *	ug/kg	1000		53469-21-9	20
NELAC	PCB-1248	<1000 *	ug/kg	1000		12672-29-6	20
NELAC	PCB-1254	<1000 *	ug/kg	1000		11097-69-1	20
NELAC	PCB-1260	<1000 *	ug/kg	1000	X	11096-82-5	20
NELAC	PCB-1262	<1680 *	ug/kg	1680		37324-23-5	20
NELAC	PCB-1268	<1680 *	ug/kg	1680		11100-14-4	20

* Dry Weight Basis

EPA 8151 Prepared: 1124943 06/20/2024 13:30:00 Analyzed 1125393 06/22/2024 02:10:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	18
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	18

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Printed: 06/26/2024

2307463 WWTP

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | City of Burnet | PO:

Taken: 06/12/2024 11:15:00

EPA 8260B — Prepared: 1125155 06/20/2024 19:35:00 — Analyzed 1125316 06/21/2024 17:32:00 — MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	22
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	22
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	22
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	22
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	22
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	22
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	22
NELAC	TCLP MEK	0.0639	mg/L	0.010		78-93-3	22
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	22
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	22
NELAC	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	22

EPA 8270C — Prepared: 1124486 06/18/2024 14:00:00 — Analyzed 1125255 06/21/2024 04:48:00 — PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050	SD	95-95-4	16
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020	SD	88-06-2	16
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020	SD	121-14-2	16
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100	D	95-48-7	16
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080	D	108-39-4	16
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010	SD	118-74-1	16
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103	SD	87-68-3	16
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020	D	67-72-1	16
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010	SD	98-95-3	16
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050	D	87-86-5	16
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	16

EPA 8270C — Prepared: 1124486 06/18/2024 14:00:00 — Calculated 1125255 06/25/2024 06:56:52 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080	E	108-39-4,ect.	16

EPA 9056 — Prepared: 1123634 06/13/2024 03:30:00 — Analyzed 1124268 06/14/2024 14:06:00 — NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	17.4 *	mg/kg	7.64		14797-55-8	06

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BUR9-C

Project
1106863

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed: 06/26/2024

2307463 **WWTP** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/12/2024 11:15:00

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1124142 06/13/2024 17:25:00 Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.8	%	0.010			01

Sample Preparation

2307462 **WTP** Received: 06/13/2024

06/12/2024

Prepared: 12/31/1899 12:13:04 Calculated 12:13:04 CAL

z	Environmental Fee (per Project)	Verified

Calculation Prepared: 06/26/2024 16:54:43 Calculated 06/26/2024 16:54:43 CAL

	As Received to Dry Weight Basis	Calculated

EPA 1311 Prepared: 1124018 06/13/2024 16:35:00 Analyzed 1124018 06/13/2024 16:35:00 SLF

NELAC	TCLP Extraction Non-Volatile	SOLID EXT 1	ml	01

EPA 1311ZHE Prepared: 1125155 06/20/2024 19:35:00 Analyzed 1125155 06/20/2024 19:35:00 SLF

NELAC	TCLP Extraction ZHE Volatiles	100% SOLID	ml	01

EPA 200.2 2.8 Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1123743 06/14/2024 12:30:00 TES

NELAC	Solid Metals Digestion	50/1.36	grams	01

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06/12/2024

	EPA 3005A	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124278*	*06/17/2024*	*14:00:00*	*TES*	
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**								10
	EPA 350.1 2	*Prepared:*	*1123945*	*06/14/2024*	*08:50:54*	*Analyzed*	*1123945*	*06/14/2024*	*08:50:54*	*MEG*	
NELAC	**Ammonia Distillation**	**6/0.5079**	**grams**								05
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0379**	**grams**								05
	EPA 3510C	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124486*	*06/18/2024*	*14:00:00*	*MCC*	
	TCLP Liquid-Liquid Extract	**1/100**	**ml**								11
	EPA 3510C	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124695*	*06/19/2024*	*13:00:00*	*MCC*	
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**								11
	EPA 3550B	*Prepared:*	*1124968*	*06/20/2024*	*14:11:23*	*Analyzed*	*1124968*	*06/20/2024*	*14:11:23*	*PEV*	
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/1.99**	**grams**								04
	EPA 7470A	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124368*	*06/18/2024*	*07:30:00*	*ALB*	
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**								10
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	

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2307462 **WTP** Received: 06/13/2024

06/12/2024

	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5392**	**grams**								04
	EPA 8081A	*Prepared:*	*1124695*	*06/19/2024*	*13:00:00*	*Analyzed*	*1125278*	*06/26/2024*	*06:35:06*	*KAP*	
NELAC	**GC TCLP Pesticide**	**Entered**									17
	EPA 8082	*Prepared:*	*1124968*	*06/20/2024*	*14:11:23*	*Analyzed*	*1125339*	*06/21/2024*	*23:22:00*	*KAP*	
NELAC	**Polychlorinated Biphenyls**	**Entered**									19
	EPA 8151	*Prepared:*	*1124943*	*06/20/2024*	*13:30:00*	*Analyzed*	*1125393*	*06/22/2024*	*01:35:00*	*KAP*	
NELAC	**GC TCLP Herbicide**	**Entered**									18
	EPA 8151A (Prep)	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124943*	*06/20/2024*	*13:30:00*	*MCC*	
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**								11
	EPA 8260B	*Prepared:*	*1125155*	*06/20/2024*	*19:35:00*	*Analyzed*	*1125316*	*06/21/2024*	*17:09:00*	*MR1*	
NELAC	**MS TCLP Volatile Analysis**	**Entered**									21
	EPA 8270C	*Prepared:*	*1124486*	*06/18/2024*	*14:00:00*	*Analyzed*	*1125255*	*06/21/2024*	*04:14:00*	*PM1*	
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**									16

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2307462 **WTP** Received: 06/13/2024

06/12/2024

EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:30:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:30:00*	*PEV*	
Water Extract-Ion Chromatography	**50/5.0**	**grams**								05
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC **Total Solids Start Code**	**Started**									

2307463 **WWTP** Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/26/2024*	*06:42:21*	*Calculated*		*06/26/2024*	*06:42:21*	*CAL*	
As Received to Dry Weight Basis	**Calculated**									
EPA 1311	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124018*	*06/13/2024*	*16:35:00*	*SLF*	
NELAC **TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**								01
EPA 1311ZHE	*Prepared:*	*1125155*	*06/20/2024*	*19:35:00*	*Analyzed*	*1125155*	*06/20/2024*	*19:35:00*	*SLF*	
NELAC **TCLP Extraction ZHE Volatiles**	**100% SOLID**	**ml**								01
EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC **Solid Metals Digestion**	**50/1.47**	**grams**								01

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Received: 06/13/2024

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	EPA 3005A	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124278*	*06/17/2024*	*14:00:00*	*TES*	
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**								10
	EPA 350.1 2	*Prepared:*	*1123945*	*06/14/2024*	*08:50:54*	*Analyzed*	*1123945*	*06/14/2024*	*08:50:54*	*MEG*	
NELAC	**Ammonia Distillation**	**6/0.5023**	**grams**								04
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0060**	**grams**								04
	EPA 3510C	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124486*	*06/18/2024*	*14:00:00*	*MCC*	
	TCLP Liquid-Liquid Extract	**1/100**	**ml**								11
	EPA 3510C	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124695*	*06/19/2024*	*13:00:00*	*MCC*	
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**								11
	EPA 3550B	*Prepared:*	*1124968*	*06/20/2024*	*14:11:23*	*Analyzed*	*1124968*	*06/20/2024*	*14:11:23*	*PEV*	
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/2.02**	**grams**								03
	EPA 7470A	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124368*	*06/18/2024*	*07:30:00*	*ALB*	
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**								10
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	

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2307463 WWTP

Received: 06/13/2024

06/12/2024

	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5251**		**grams**							04
	EPA 8081A	*Prepared:*	*1124695*	*06/19/2024*	*13:00:00*	*Analyzed*	*1125278*	*06/26/2024*	*06:35:06*	*KAP*	
NELAC	**GC TCLP Pesticide**	**Entered**									17
	EPA 8082	*Prepared:*	*1124968*	*06/20/2024*	*14:11:23*	*Analyzed*	*1125339*	*06/21/2024*	*23:56:00*	*KAP*	
NELAC	**Polychlorinated Biphenyls**	**Entered**									20
	EPA 8151	*Prepared:*	*1124943*	*06/20/2024*	*13:30:00*	*Analyzed*	*1125393*	*06/22/2024*	*02:10:00*	*KAP*	
NELAC	**GC TCLP Herbicide**	**Entered**									18
	EPA 8151A (Prep)	*Prepared:*	*1124018*	*06/13/2024*	*16:35:00*	*Analyzed*	*1124943*	*06/20/2024*	*13:30:00*	*MCC*	
NELAC	**Esterification of TCLP Extract**	**10/1**		**ml**							11
	EPA 8260B	*Prepared:*	*1125155*	*06/20/2024*	*19:35:00*	*Analyzed*	*1125316*	*06/21/2024*	*17:32:00*	*MR1*	
NELAC	**MS TCLP Volatile Analysis**	**Entered**									22
	EPA 8270C	*Prepared:*	*1124486*	*06/18/2024*	*14:00:00*	*Analyzed*	*1125255*	*06/21/2024*	*04:48:00*	*PM1*	
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**									16

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2307463 WWTP

Received: 06/13/2024

06/12/2024

EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:33:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:33:00*	*PEV*
Water Extract-Ion Chromatography	**50/5.0**		**grams**						03
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								

Qualifiers:

D - Duplicate RPD was higher than expected
E - Estimated Value
X - Standard reads higher than desired.
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

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Printed 06/26/2024

Analytical Set 1124497 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1124232	ND	0.378	1.00	mg/kg	126460877

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.38	5.00	mg/kg	108	90.0 - 110	126460868
Total Kjeldahl Nitrogen	5.39	5.00	mg/kg	108	90.0 - 110	126460876
Total Kjeldahl Nitrogen	5.35	5.00	mg/kg	107	90.0 - 110	126460887
Total Kjeldahl Nitrogen	5.36	5.00	mg/kg	107	90.0 - 110	126460896
Total Kjeldahl Nitrogen	5.37	5.00	mg/kg	107	90.0 - 110	126460897
Total Kjeldahl Nitrogen	5.41	5.00	mg/kg	108	90.0 - 110	126460898
Total Kjeldahl Nitrogen	5.45	5.00	mg/kg	109	90.0 - 110	126460899
Total Kjeldahl Nitrogen	5.46	5.00	mg/kg	109	90.0 - 110	126460900
Total Kjeldahl Nitrogen	5.41	5.00	mg/kg	108	90.0 - 110	126460901
Total Kjeldahl Nitrogen	5.32	5.00	mg/kg	106	90.0 - 110	126460903
Total Kjeldahl Nitrogen	5.32	5.00	mg/kg	106	90.0 - 110	126460904

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Total Kjeldahl Nitrogen	2307155	4110	4630	mg/kg	11.9		20.0
Total Kjeldahl Nitrogen	2307161	5990	1910	mg/kg	103	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126460867

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1124232	92.8	92.0	100	90.0 - 110	92.8	92.0	mg/kg	0.866	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2307155	3260	4630	9780	mg/kg	0	80.0 - 120	126460882	*
Total Kjeldahl Nitrogen	2307161	7200	1910	9910	mg/kg	53.4	80.0 - 120	126460885	*

Analytical Set 1124786 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1123945	ND	0.509	1.00	mg/kg	126466619

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.14	2.00	mg/kg	107	90.0 - 110	126466602
Ammonia Nitrogen	2.11	2.00	mg/kg	106	90.0 - 110	126466603
Ammonia Nitrogen	2.10	2.00	mg/kg	105	90.0 - 110	126466604
Ammonia Nitrogen	2.13	2.00	mg/kg	106	90.0 - 110	126466605

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.14	2.00	mg/kg	107	90.0 - 110	126466606
Ammonia Nitrogen	2.11	2.00	mg/kg	106	90.0 - 110	126466607
Ammonia Nitrogen	1.99	2.00	mg/kg	99.5	90.0 - 110	126466608
Ammonia Nitrogen	1.99	2.00	mg/kg	99.5	90.0 - 110	126466609
Ammonia Nitrogen	1.98	2.00	mg/kg	99.0	90.0 - 110	126466610
Ammonia Nitrogen	1.93	2.00	mg/kg	96.5	90.0 - 110	126466611
Ammonia Nitrogen	1.97	2.00	mg/kg	98.5	90.0 - 110	126466612
Ammonia Nitrogen	2.07	2.00	mg/kg	104	90.0 - 110	126466613
Ammonia Nitrogen	2.12	2.00	mg/kg	106	90.0 - 110	126466614
Ammonia Nitrogen	2.07	2.00	mg/kg	104	90.0 - 110	126466615
Ammonia Nitrogen	2.08	2.00	mg/kg	104	90.0 - 110	126466616
Ammonia Nitrogen	2.04	2.00	mg/kg	102	90.0 - 110	126466617
Ammonia Nitrogen	2.03	2.00	mg/kg	102	90.0 - 110	126466618
Ammonia Nitrogen	2.03	2.00	mg/kg	102	90.0 - 110	126466627
Ammonia Nitrogen	2.00	2.00	mg/kg	100	90.0 - 110	126466637
Ammonia Nitrogen	2.01	2.00	mg/kg	100	90.0 - 110	126466638
Ammonia Nitrogen	1.96	2.00	mg/kg	98.0	90.0 - 110	126466639
Ammonia Nitrogen	1.96	2.00	mg/kg	98.0	90.0 - 110	126466640
Ammonia Nitrogen	1.96	2.00	mg/kg	98.0	90.0 - 110	126466641
Ammonia Nitrogen	1.94	2.00	mg/kg	97.0	90.0 - 110	126466642

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2307155	32.3	31.9	mg/kg	1.25	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.18	2.00	mg/kg	109	90.0 - 110	126466601

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1123945	96.9	101	100	90.0 - 110	96.9	101	mg/kg	4.14	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2307155	35.4	31.9	100	mg/kg	3.50	80.0 - 120	126466624	*

Analytical Set 1124844 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1123945	ND	0.509	1.00	mg/kg	126469218

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.18	2.00	mg/kg	109	90.0 - 110	126469215
Ammonia Nitrogen	2.16	2.00	mg/kg	108	90.0 - 110	126469216

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QUALITY CONTROL

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.08	2.00	mg/kg	104	90.0 - 110	126469217
Ammonia Nitrogen	2.18	2.00	mg/kg	109	90.0 - 110	126469227
Ammonia Nitrogen	2.15	2.00	mg/kg	108	90.0 - 110	126469233

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.16	2.00	mg/kg	108	90.0 - 110	126469214

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1123945	104	109	100	90.0 - 110	104	109	mg/kg	4.69	20.0

Analytical Set 1124142 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1124142	0.0001			grams	126450317

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2307462	69.5	69.7	%	0.287	20.0
Total Solids for Dry Wt Conversi	2307521	79.0	79.1	%	0.127	20.0
Total Solids for Dry Wt Conversi	2307542	84.3	84.0	%	0.357	20.0

Analytical Set 1124268 — EPA 9056

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen	2.30	2.26	mg/kg	102	90.0 - 110	126454695
Nitrate-Nitrogen	2.33	2.26	mg/kg	103	90.0 - 110	126454707

Analytical Set 1124249 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1123743	ND	0.00734	0.100	mg/kg	126454141

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.01	1.00	mg/kg	101	90.0 - 110	126454134
Phosphorus	1.02	1.00	mg/kg	102	90.0 - 110	126454143
Phosphorus	1.02	1.00	mg/kg	102	90.0 - 110	126454153
Phosphorus	1.03	1.00	mg/kg	103	90.0 - 110	126454161

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	25.1	25.0	mg/kg	100	95.0 - 105	126454132

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.02	1.00	mg/kg	102	90.0 - 110	126454133

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1123743	20.7	20.2	20.0	80.0 - 120	104	101	mg/kg	2.44	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2306904	4710	4700	3860	323	23.3 - 179	259 *	256 *	mg/kg	1.18	25.0
Phosphorus	2307344	141	140	43.2	98.4	23.3 - 179	98.5	97.5	mg/kg	1.03	25.0

Analytical Set 1124258 — EPA 7471B 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury	1123946	ND	0.0000415	0.0001	mg/kg	126454361

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00497	0.005	mg/kg	99.4	90.0 - 110	126454359
Mercury	0.00499	0.005	mg/kg	99.8	90.0 - 110	126454360
Mercury	0.00455	0.005	mg/kg	91.0	90.0 - 110	126454370
Mercury	0.00517	0.005	mg/kg	103	90.0 - 110	126454376
Mercury	0.00533	0.005	mg/kg	107	90.0 - 110	126454378

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0202	0.02	mg/kg	101	90.0 - 110	126454358

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0048	0.005	mg/kg	96.0	90.0 - 110	126454357

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury	1123946	0.00925	0.00958	0.010	78.6 - 104	92.5	95.8	mg/kg	3.51	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	2307525	0.970	0.948	0.058	0.983	74.3 - 109	92.7	90.4	mg/kg	2.44	25.0

Analytical Set 1124349 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Potassium	1123743	ND	0.111	0.500	mg/kg	126456278

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	25.4	25.0	mg/kg	102	90.0 - 110	126456277
Potassium	22.9	25.0	mg/kg	91.6	90.0 - 110	126456287
Potassium	24.3	25.0	mg/kg	97.2	90.0 - 110	126456295
Potassium	24.4	25.0	mg/kg	97.6	90.0 - 110	126456302

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	49.6	50.0	mg/kg	99.2	95.0 - 105	126456271

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	24.2	25.0	mg/kg	96.8	90.0 - 110	126456275

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Potassium	1123743	25.5	24.8	25.0	78.0 - 116	102	99.2	mg/kg	2.78	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	100	100	mg/kg	100	90.0 - 110	126456272

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Potassium	2306904	1380	1760	1110	403	33.6 - 179	65.9	159	mg/kg	82.6 *	25.0
Potassium	2307344	149	276	12.2	123	33.6 - 179	110	213 *	mg/kg	63.4 *	25.0

Analytical Set 1124374 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1123743	ND	0.000917	0.005	mg/kg	126458247
Cadmium, Total	1123743	ND	0.00011	0.001	mg/kg	126458247
Lead, Total	1123743	ND	0.000262	0.001	mg/kg	126458247
Molybdenum, Total	1123743	ND	0.000865	0.003	mg/kg	126458247
Selenium, Total	1123743	ND	0.000353	0.001	mg/kg	126458247

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0508	0.05	mg/kg	102	90.0 - 110	126458250
Arsenic, Total	0.0493	0.05	mg/kg	98.6	90.0 - 110	126458261
Arsenic, Total	0.0486	0.05	mg/kg	97.2	90.0 - 110	126458264
Arsenic, Total	0.0494	0.05	mg/kg	98.8	90.0 - 110	126458273
Cadmium, Total	0.0529	0.05	mg/kg	106	90.0 - 110	126458250
Cadmium, Total	0.0505	0.05	mg/kg	101	90.0 - 110	126458261
Cadmium, Total	0.0503	0.05	mg/kg	101	90.0 - 110	126458264
Cadmium, Total	0.0522	0.05	mg/kg	104	90.0 - 110	126458273
Lead, Total	0.0543	0.05	mg/kg	109	90.0 - 110	126458250
Lead, Total	0.0524	0.05	mg/kg	105	90.0 - 110	126458261

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lead, Total	0.0528	0.05	mg/kg	106	90.0 - 110	126458264
Lead, Total	0.055	0.05	mg/kg	110	90.0 - 110	126458273
Molybdenum, Total	0.0532	0.05	mg/kg	106	90.0 - 110	126458250
Molybdenum, Total	0.0512	0.05	mg/kg	102	90.0 - 110	126458261
Molybdenum, Total	0.050	0.05	mg/kg	100	90.0 - 110	126458264
Molybdenum, Total	0.0529	0.05	mg/kg	106	90.0 - 110	126458273

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.048	0.05	mg/kg	96.0	90.0 - 110	126458180
Cadmium, Total	0.0492	0.05	mg/kg	98.4	90.0 - 110	126458180
Lead, Total	0.0498	0.05	mg/kg	99.6	90.0 - 110	126458180
Molybdenum, Total	0.0484	0.05	mg/kg	96.8	90.0 - 110	126458180

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1123743	2.56	2.48	2.50	80.0 - 120	102	99.2	mg/kg	3.17	20.0
Cadmium, Total	1123743	1.33	1.29	1.25	80.0 - 120	106	103	mg/kg	3.05	20.0
Lead, Total	1123743	2.69	2.60	2.50	80.0 - 120	108	104	mg/kg	3.40	20.0
Molybdenum, Total	1123743	2.67	2.54	2.50	80.0 - 120	107	102	mg/kg	4.99	20.0
Selenium, Total	1123743	2.62	2.54	2.50	80.0 - 120	105	102	mg/kg	3.10	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2306904	40.2	38.5	1.71	40.3	67.5 - 123	93.9	89.7	mg/kg	4.52	20.0
Cadmium, Total	2306904	21.0	20.1	0.151	20.2	86.3 - 114	102	97.3	mg/kg	4.41	20.0
Lead, Total	2306904	43.9	42.2	3.64	40.3	78.8 - 123	98.2	94.0	mg/kg	4.31	20.0
Molybdenum, Total	2306904	33.5	32.2	1.47	40.3	62.9 - 137	78.1	75.0	mg/kg	4.14	20.0
Selenium, Total	2306904	34.0	33.0	0.756	40.3	63.9 - 122	81.1	78.6	mg/kg	3.05	20.0
Arsenic, Total	2307344	11.1	22.2	0.206	12.3	67.5 - 123	87.9	177 *	mg/kg	67.5 *	20.0
Cadmium, Total	2307344	6.24	13.0	0.00221	6.15	86.3 - 114	100	209 *	mg/kg	70.3 *	20.0
Lead, Total	2307344	12.7	24.7	0.187	12.3	78.8 - 123	101	198 *	mg/kg	64.8 *	20.0
Molybdenum, Total	2307344	10.5	22.1	0.018	12.3	62.9 - 137	84.5	178 *	mg/kg	71.2 *	20.0
Selenium, Total	2307344	10.9	22.6	0.0592	12.3	63.9 - 122	87.4	182 *	mg/kg	70.1 *	20.0

Analytical Set 1124427 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1124368	ND	0.000113	0.0002	mg/L	126459404

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00497	0.005	mg/L	99.4	90.0 - 110	126459402
TCLP Mercury	0.00498	0.005	mg/L	99.6	90.0 - 110	126459403
TCLP Mercury	0.00484	0.005	mg/L	96.8	90.0 - 110	126459413
TCLP Mercury	0.00487	0.005	mg/L	97.4	90.0 - 110	126459414

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0195	0.02	mg/L	97.5	90.0 - 110	126459401

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00478	0.005	mg/L	95.6	90.0 - 110	126459400

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1124368	0.0092	0.00948	0.010	85.1 - 117	92.0	94.8	mg/L	3.00	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2307301	0.0902	0.0893	ND	0.100	80.9 - 121	90.2	89.3	mg/L	1.00	20.0

Analytical Set 1124802 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1123743	0.000862	0.000409	0.001	mg/kg	126468061
Copper, Total	1123743	0.000753	0.000242	0.001	mg/kg	126468061
Nickel, Total	1123743	ND	0.000287	0.001	mg/kg	126468061
Selenium, Total	1123743	0.000667	0.000353	0.001	mg/kg	126468061
Zinc, Total	1123743	ND	0.00479	0.010	mg/kg	126468061

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0498	0.05	mg/kg	99.6	90.0 - 110	126468060
Chromium, Total	0.0489	0.05	mg/kg	97.8	90.0 - 110	126468069
Chromium, Total	0.0501	0.05	mg/kg	100	90.0 - 110	126468077
Chromium, Total	0.0528	0.05	mg/kg	106	90.0 - 110	126468082
Copper, Total	0.0491	0.05	mg/kg	98.2	90.0 - 110	126468060
Copper, Total	0.0486	0.05	mg/kg	97.2	90.0 - 110	126468069
Copper, Total	0.0495	0.05	mg/kg	99.0	90.0 - 110	126468077
Copper, Total	0.0513	0.05	mg/kg	103	90.0 - 110	126468082
Nickel, Total	0.0517	0.05	mg/kg	103	90.0 - 110	126468060
Nickel, Total	0.0519	0.05	mg/kg	104	90.0 - 110	126468069
Nickel, Total	0.0531	0.05	mg/kg	106	90.0 - 110	126468077
Nickel, Total	0.0546	0.05	mg/kg	109	90.0 - 110	126468082
Selenium, Total	0.0457	0.05	mg/kg	91.4	90.0 - 110	126468060
Selenium, Total	0.0495	0.05	mg/kg	99.0	90.0 - 110	126468077
Selenium, Total	0.0509	0.05	mg/kg	102	90.0 - 110	126468082
Zinc, Total	0.0524	0.05	mg/kg	105	90.0 - 110	126468060
Zinc, Total	0.0522	0.05	mg/kg	104	90.0 - 110	126468069
Zinc, Total	0.0535	0.05	mg/kg	107	90.0 - 110	126468077
Zinc, Total	0.0547	0.05	mg/kg	109	90.0 - 110	126468082

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.052	0.05	mg/kg	104	90.0 - 110	126468025
Copper, Total	0.0521	0.05	mg/kg	104	90.0 - 110	126468025
Nickel, Total	0.0546	0.05	mg/kg	109	90.0 - 110	126468025
Selenium, Total	0.0511	0.05	mg/kg	102	90.0 - 110	126468025
Zinc, Total	0.0536	0.05	mg/kg	107	90.0 - 110	126468025

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1123743	2.71	2.62	2.50	80.0 - 120	108	105	mg/kg	3.38	20.0
Copper, Total	1123743	2.47	2.43	2.50	80.0 - 120	98.8	97.2	mg/kg	1.63	20.0
Nickel, Total	1123743	2.65	2.60	2.50	80.0 - 120	106	104	mg/kg	1.90	20.0
Selenium, Total	1123743	2.41	2.36	2.50	80.0 - 120	96.4	94.4	mg/kg	2.10	20.0
Zinc, Total	1123743	2.70	2.63	2.50	80.0 - 120	108	105	mg/kg	2.63	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2306904	45.8	45.0	6.23	40.3	80.1 - 122	96.5	94.6	mg/kg	2.04	20.0
Copper, Total	2306904	97.2	97.6	47.7	40.3	40.4 - 145	121	122	mg/kg	0.805	20.0
Nickel, Total	2306904	43.5	43.4	5.03	40.3	76.5 - 121	93.8	93.6	mg/kg	0.260	20.0
Zinc, Total	2306904	138	138	78.8	40.3	28.6 - 157	144	144	mg/kg	0	20.0
Chromium, Total	2307344	12.1	24.1	0.254	12.3	80.1 - 122	95.5	192 *	mg/kg	67.2 *	20.0
Copper, Total	2307344	12.5	24.4	1.03	12.3	40.4 - 145	92.5	188 *	mg/kg	68.3 *	20.0
Nickel, Total	2307344	13.1	25.6	0.783	12.3	76.5 - 121	99.3	200 *	mg/kg	67.3 *	20.0
Selenium, Total	2307344	10.4	21.3	0.00813	12.3	63.9 - 122	83.8	172 *	mg/kg	68.8 *	20.0
Zinc, Total	2307344	15.4	27.5	2.91	12.3	28.6 - 157	101	198 *	mg/kg	65.3 *	20.0

Analytical Set 1124804 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1124278	ND	0.000902	0.001	mg/L	126468315
TCLP Barium	1124278	ND	0.00207	0.005	mg/L	126468315
TCLP Cadmium	1124278	ND	0.00012	0.001	mg/L	126468315
TCLP Chromium	1124278	0.0051	0.000392	0.001	mg/L	126468315
TCLP Lead	1124278	ND	0.000549	0.001	mg/L	126468315
TCLP Selenium	1124278	ND	0.00294	0.005	mg/L	126468315
TCLP Silver	1124278	0.000918	0.000276	0.001	mg/L	126468315

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0478	0.05	mg/L	95.6	90.0 - 110	126468314
TCLP Arsenic	0.048	0.05	mg/L	96.0	90.0 - 110	126468317
TCLP Arsenic	0.0452	0.05	mg/L	90.4	90.0 - 110	126468326
TCLP Barium	0.0486	0.05	mg/L	97.2	90.0 - 110	126468314
TCLP Barium	0.0495	0.05	mg/L	99.0	90.0 - 110	126468317
TCLP Barium	0.0491	0.05	mg/L	98.2	90.0 - 110	126468326
TCLP Cadmium	0.0481	0.05	mg/L	96.2	90.0 - 110	126468314

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Cadmium	0.0488	0.05	mg/L	97.6	90.0 - 110	126468317
TCLP Cadmium	0.0478	0.05	mg/L	95.6	90.0 - 110	126468326
TCLP Chromium	0.0501	0.05	mg/L	100	90.0 - 110	126468314
TCLP Chromium	0.0528	0.05	mg/L	106	90.0 - 110	126468317
TCLP Chromium	0.0495	0.05	mg/L	99.0	90.0 - 110	126468326
TCLP Lead	0.0495	0.05	mg/L	99.0	90.0 - 110	126468314
TCLP Lead	0.0491	0.05	mg/L	98.2	90.0 - 110	126468317
TCLP Lead	0.0491	0.05	mg/L	98.2	90.0 - 110	126468326
TCLP Selenium	0.0495	0.05	mg/L	99.0	90.0 - 110	126468314
TCLP Selenium	0.0509	0.05	mg/L	102	90.0 - 110	126468317
TCLP Selenium	0.0472	0.05	mg/L	94.4	90.0 - 110	126468326
TCLP Silver	0.0483	0.05	mg/L	96.6	90.0 - 110	126468314
TCLP Silver	0.0486	0.05	mg/L	97.2	90.0 - 110	126468317
TCLP Silver	0.0474	0.05	mg/L	94.8	90.0 - 110	126468326

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0488	0.05	mg/L	97.6	90.0 - 110	126468268
TCLP Barium	0.0491	0.05	mg/L	98.2	90.0 - 110	126468268
TCLP Cadmium	0.0486	0.05	mg/L	97.2	90.0 - 110	126468268
TCLP Chromium	0.052	0.05	mg/L	104	90.0 - 110	126468268
TCLP Lead	0.0483	0.05	mg/L	96.6	90.0 - 110	126468268
TCLP Selenium	0.0511	0.05	mg/L	102	90.0 - 110	126468268
TCLP Silver	0.0482	0.05	mg/L	96.4	90.0 - 110	126468268

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	1124278	0.461	0.475	0.500	82.8 - 120	92.2	95.0	mg/L	2.99	14.0
TCLP Barium	1124278	0.467	0.476	0.500	83.1 - 113	93.4	95.2	mg/L	1.91	14.0
TCLP Cadmium	1124278	0.229	0.233	0.250	86.0 - 115	91.6	93.2	mg/L	1.73	14.0
TCLP Chromium	1124278	0.470	0.475	0.500	84.3 - 118	94.0	95.0	mg/L	1.06	14.0
TCLP Lead	1124278	0.448	0.451	0.500	85.1 - 115	89.6	90.2	mg/L	0.667	14.0
TCLP Selenium	1124278	0.475	0.492	0.500	83.5 - 121	95.0	98.4	mg/L	3.52	14.0
TCLP Silver	1124278	0.090	0.091	0.100	80.1 - 118	90.0	91.0	mg/L	1.10	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2307301	2.34	2.32	0.019	2.50	84.9 - 114	92.8	92.0	mg/L	0.865	20.0
TCLP Barium	2307301	2.52	2.52	0.0565	2.50	80.3 - 115	98.5	98.5	mg/L	0	20.0
TCLP Cadmium	2307301	1.21	1.21	0.00158	1.25	78.2 - 120	96.7	96.7	mg/L	0	20.0
TCLP Chromium	2307301	2.61	2.61	0.0978	2.50	86.0 - 117	100	100	mg/L	0	20.0
TCLP Lead	2307301	2.48	2.45	0.00643	2.50	85.0 - 116	98.9	97.7	mg/L	1.22	20.0
TCLP Selenium	2307301	2.57	2.46	0.0279	2.50	80.2 - 121	102	97.3	mg/L	4.42	20.0
TCLP Silver	2307301	0.474	0.471	0.0044	0.500	80.7 - 115	93.9	93.3	mg/L	0.641	20.0

Analytical Set 1125847 EPA 6010C

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QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Copper	1123743	ND	0.00321	0.025	mg/kg	126492609

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper	2.51	2.50	mg/kg	100	90.0 - 110	126492600
Copper	2.51	2.50	mg/kg	100	90.0 - 110	126492601
Copper	2.51	2.50	mg/kg	100	90.0 - 110	126492605
Copper	2.53	2.50	mg/kg	101	90.0 - 110	126492611
Copper	2.51	2.50	mg/kg	100	90.0 - 110	126492617

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper	4.88	5.00	mg/kg	97.6	95.0 - 105	126492594

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper	2.50	2.50	mg/kg	100	90.0 - 110	126492598

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Copper	1123743	2.68	2.60	2.50	83.8 - 115	107	104	mg/kg	3.03	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Copper	2307344	13.8	26.0	1.03	12.3	75.8 - 122	103	201 *	mg/kg	64.7 *	25.0

Analytical Set 1125255 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1124018	ND	0.000961	0.005	mg/L	126478326
TCLP 2,4,6-Trichlorophenol	1124018	ND	0.00124	0.002	mg/L	126478326
TCLP 2,4-Dinitrotoluene	1124018	ND	0.00135	0.002	mg/L	126478326
TCLP 2-Methylphenol (o-Cresol)	1124018	ND	0.00848	0.010	mg/L	126478326
TCLP 3&4-Methylphenol (m&p-Creso	1124018	ND	0.00778	0.008	mg/L	126478326
TCLP Hexachlorobenzene	1124018	ND	0.000871	0.001	mg/L	126478326
TCLP Hexachlorobutadiene	1124018	ND	0.00103	0.00103	mg/L	126478326
TCLP Hexachloroethane	1124018	ND	0.00105	0.002	mg/L	126478326
TCLP Nitrobenzene	1124018	ND	0.000271	0.001	mg/L	126478326
TCLP Pentachlorophenol	1124018	ND	0.00096	0.005	mg/L	126478326
TCLP Pyridine (Reg. Limit 5)	1124018	ND	0.00135	0.00135	mg/L	126478326
TCLP 2,4,5-Trichlorophenol	1124486	ND	0.000961	0.005	mg/L	126478319
TCLP 2,4,6-Trichlorophenol	1124486	ND	0.00124	0.002	mg/L	126478319
TCLP 2,4-Dinitrotoluene	1124486	ND	0.00135	0.002	mg/L	126478319
TCLP 2-Methylphenol (o-Cresol)	1124486	ND	0.00848	0.010	mg/L	126478319
TCLP 3&4-Methylphenol (m&p-Creso	1124486	ND	0.00778	0.008	mg/L	126478319
TCLP Hexachlorobenzene	1124486	ND	0.000871	0.001	mg/L	126478319

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Hexachlorobutadiene	1124486	ND	0.00103	0.00103	mg/L	126478319
TCLP Hexachloroethane	1124486	ND	0.00105	0.002	mg/L	126478319
TCLP Nitrobenzene	1124486	ND	0.000271	0.001	mg/L	126478319
TCLP Pentachlorophenol	1124486	ND	0.00096	0.005	mg/L	126478319
TCLP Pyridine (Reg. Limit 5)	1124486	ND	0.00135	0.00135	mg/L	126478319

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	54.6	50.0	mg/L	109	70.0 - 130	126478318
TCLP 2,4,6-Trichlorophenol	54.8	50.0	mg/L	110	70.0 - 130	126478318
TCLP 2,4-Dinitrotoluene	44.4	50.0	mg/L	88.8	70.0 - 130	126478318
TCLP 2-Methylphenol (o-Cresol)	50.4	50.0	mg/L	101	70.0 - 130	126478318
TCLP 3&4-Methylphenol (m&p-Creso	45.9	50.0	mg/L	91.8	70.0 - 130	126478318
TCLP Hexachlorobenzene	46.4	50.0	mg/L	92.7	70.0 - 130	126478318
TCLP Hexachlorobutadiene	42.1	50.0	mg/L	84.2	70.0 - 130	126478318
TCLP Hexachloroethane	39.9	50.0	mg/L	79.8	70.0 - 130	126478318
TCLP Nitrobenzene	48.7	50.0	mg/L	97.5	70.0 - 130	126478318
TCLP Pentachlorophenol	45.1	50.0	mg/L	90.2	70.0 - 130	126478318
TCLP Pyridine (Reg. Limit 5)	51.1	50.0	mg/L	102	70.0 - 130	126478318

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	625285	198	7965	56.0	40.0 - 60.0	126478317
DFTPP Mass 197	625285	198	0	0.0	0 - 1.00	126478317
DFTPP Mass 198	625285	198	14224	100.0	100 - 100	126478317
DFTPP Mass 199	625285	198	1006	7.1	5.00 - 9.00	126478317
DFTPP Mass 275	625285	198	4017	28.2	10.0 - 30.0	126478317
DFTPP Mass 365	625285	198	753	5.3	1.00 - 100	126478317
DFTPP Mass 441	625285	443	1844	79.8	0 - 100	126478317
DFTPP Mass 442	625285	198	11649	81.9	40.0 - 100	126478317
DFTPP Mass 443	625285	442	2310	19.8	17.0 - 23.0	126478317
DFTPP Mass 51	625285	198	4607	32.4	30.0 - 60.0	126478317
DFTPP Mass 68	625285	69.0	6	0.1	0 - 2.00	126478317
DFTPP Mass 69	625285	198	5149	36.2	0 - 100	126478317
DFTPP Mass 70	625285	69.0	29	0.6	0 - 2.00	126478317

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	624031	CCV	334600	334600	167300	501900	126478318	624031
Acenaphthene-d10-ISTD	624031	CCV	689400	689400	344700	1034000	126478318	624031
Naphthalene-d8-ISTD	624031	CCV	1205000	1205000	602700	1808000	126478318	624031
Phenanthrene-d10-ISTD	624031	CCV	1089000	1089000	544600	1634000	126478318	624031
1,4-Dichlorobenzene-d4-ISTD	1124018	Blank	380400	334600	167300	501900	126478326	1124018
Acenaphthene-d10-ISTD	1124018	Blank	733700	689400	344700	1034000	126478326	1124018
Naphthalene-d8-ISTD	1124018	Blank	1397000	1205000	602700	1808000	126478326	1124018
Phenanthrene-d10-ISTD	1124018	Blank	972400	1089000	544600	1634000	126478326	1124018

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QUALITY CONTROL

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	1124486	Blank	395400	334600	167300	501900	126478319	1124486
1,4-Dichlorobenzene-d4-ISTD	1124486	LCS	341500	334600	167300	501900	126478320	1124486
1,4-Dichlorobenzene-d4-ISTD	1124486	LCS Dup	393500	334600	167300	501900	126478321	1124486
Acenaphthene-d10-ISTD	1124486	Blank	758100	689400	344700	1034000	126478319	1124486
Acenaphthene-d10-ISTD	1124486	LCS	725600	689400	344700	1034000	126478320	1124486
Acenaphthene-d10-ISTD	1124486	LCS Dup	787500	689400	344700	1034000	126478321	1124486
Naphthalene-d8-ISTD	1124486	Blank	1478000	1205000	602700	1808000	126478319	1124486
Naphthalene-d8-ISTD	1124486	LCS	1344000	1205000	602700	1808000	126478320	1124486
Naphthalene-d8-ISTD	1124486	LCS Dup	1453000	1205000	602700	1808000	126478321	1124486
Phenanthrene-d10-ISTD	1124486	Blank	1096000	1089000	544600	1634000	126478319	1124486
Phenanthrene-d10-ISTD	1124486	LCS	927700	1089000	544600	1634000	126478320	1124486
Phenanthrene-d10-ISTD	1124486	LCS Dup	1164000	1089000	544600	1634000	126478321	1124486
1,4-Dichlorobenzene-d4-ISTD	2305180	MS	368000	334600	167300	501900	126478328	1124486
Acenaphthene-d10-ISTD	2305180	MS	727300	689400	344700	1034000	126478328	1124486
Naphthalene-d8-ISTD	2305180	MS	1355000	1205000	602700	1808000	126478328	1124486
Phenanthrene-d10-ISTD	2305180	MS	1017000	1089000	544600	1634000	126478328	1124486
1,4-Dichlorobenzene-d4-ISTD	2307462	Unknown	362100	334600	167300	501900	126478337	1124486
Acenaphthene-d10-ISTD	2307462	Unknown	677800	689400	344700	1034000	126478337	1124486
Naphthalene-d8-ISTD	2307462	Unknown	1334000	1205000	602700	1808000	126478337	1124486
Phenanthrene-d10-ISTD	2307462	Unknown	893400	1089000	544600	1634000	126478337	1124486
1,4-Dichlorobenzene-d4-ISTD	2307463	Unknown	357800	334600	167300	501900	126478338	1124486
Acenaphthene-d10-ISTD	2307463	Unknown	793000	689400	344700	1034000	126478338	1124486
Naphthalene-d8-ISTD	2307463	Unknown	1347000	1205000	602700	1808000	126478338	1124486
Phenanthrene-d10-ISTD	2307463	Unknown	1064000	1089000	544600	1634000	126478338	1124486

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	624031	CCV	4.723	4.723	4.663	4.783	126478318	624031
Acenaphthene-d10-ISTD	624031	CCV	7.200	7.200	7.140	7.260	126478318	624031
Naphthalene-d8-ISTD	624031	CCV	5.755	5.755	5.695	5.815	126478318	624031
Phenanthrene-d10-ISTD	624031	CCV	8.444	8.444	8.384	8.504	126478318	624031
1,4-Dichlorobenzene-d4-ISTD	1124018	Blank	4.717	4.723	4.663	4.783	126478326	1124018
Acenaphthene-d10-ISTD	1124018	Blank	7.194	7.200	7.140	7.260	126478326	1124018
Naphthalene-d8-ISTD	1124018	Blank	5.743	5.755	5.695	5.815	126478326	1124018
Phenanthrene-d10-ISTD	1124018	Blank	8.432	8.444	8.384	8.504	126478326	1124018
1,4-Dichlorobenzene-d4-ISTD	1124486	Blank	4.711	4.723	4.663	4.783	126478319	1124486
1,4-Dichlorobenzene-d4-ISTD	1124486	LCS	4.717	4.723	4.663	4.783	126478320	1124486
1,4-Dichlorobenzene-d4-ISTD	1124486	LCS Dup	4.717	4.723	4.663	4.783	126478321	1124486
Acenaphthene-d10-ISTD	1124486	Blank	7.194	7.200	7.140	7.260	126478319	1124486
Acenaphthene-d10-ISTD	1124486	LCS	7.194	7.200	7.140	7.260	126478320	1124486
Acenaphthene-d10-ISTD	1124486	LCS Dup	7.200	7.200	7.140	7.260	126478321	1124486
Naphthalene-d8-ISTD	1124486	Blank	5.737	5.755	5.695	5.815	126478319	1124486
Naphthalene-d8-ISTD	1124486	LCS	5.743	5.755	5.695	5.815	126478320	1124486
Naphthalene-d8-ISTD	1124486	LCS Dup	5.749	5.755	5.695	5.815	126478321	1124486
Phenanthrene-d10-ISTD	1124486	Blank	8.426	8.444	8.384	8.504	126478319	1124486

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QUALITY CONTROL

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Phenanthrene-d10-ISTD	1124486	LCS	8.432	8.444	8.384	8.504	126478320	1124486
Phenanthrene-d10-ISTD	1124486	LCS Dup	8.438	8.444	8.384	8.504	126478321	1124486
1,4-Dichlorobenzene-d4-ISTD	2305180	MS	4.717	4.723	4.663	4.783	126478328	1124486
Acenaphthene-d10-ISTD	2305180	MS	7.194	7.200	7.140	7.260	126478328	1124486
Naphthalene-d8-ISTD	2305180	MS	5.743	5.755	5.695	5.815	126478328	1124486
Phenanthrene-d10-ISTD	2305180	MS	8.432	8.444	8.384	8.504	126478328	1124486
1,4-Dichlorobenzene-d4-ISTD	2307462	Unknown	4.717	4.723	4.663	4.783	126478337	1124486
Acenaphthene-d10-ISTD	2307462	Unknown	7.194	7.200	7.140	7.260	126478337	1124486
Naphthalene-d8-ISTD	2307462	Unknown	5.743	5.755	5.695	5.815	126478337	1124486
Phenanthrene-d10-ISTD	2307462	Unknown	8.432	8.444	8.384	8.504	126478337	1124486
1,4-Dichlorobenzene-d4-ISTD	2307463	Unknown	4.676	4.723	4.663	4.783	126478338	1124486
Acenaphthene-d10-ISTD	2307463	Unknown	7.188	7.200	7.140	7.260	126478338	1124486
Naphthalene-d8-ISTD	2307463	Unknown	5.713	5.755	5.695	5.815	126478338	1124486
Phenanthrene-d10-ISTD	2307463	Unknown	8.426	8.444	8.384	8.504	126478338	1124486

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1124486	0.00311	0.0125	0.0125	39.3 - 111	24.9 *	100	mg/L	120 *	30.0
TCLP 2,4,6-Trichlorophenol	1124486	0.00343	0.0128	0.0125	38.2 - 109	27.4 *	102	mg/L	115 *	30.0
TCLP 2,4-Dinitrotoluene	1124486	0.0031	0.0121	0.0125	36.3 - 132	24.8 *	96.8	mg/L	118 *	30.0
TCLP 2-Methylphenol (o-Cresol)	1124486	0.00362	0.00983	0.0125	23.0 - 87.8	29.0	78.6	mg/L	92.2 *	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1124486	0.00377	0.00953	0.0125	14.9 - 92.5	30.2	76.2	mg/L	86.5 *	30.0
TCLP Hexachlorobenzene	1124486	0.00352	0.011	0.0125	44.4 - 117	28.2 *	88.0	mg/L	103 *	30.0
TCLP Hexachlorobutadiene	1124486	0.00197	0.00805	0.0125	17.2 - 88.9	15.8 *	64.4	mg/L	121 *	30.0
TCLP Hexachloroethane	1124486	0.00219	0.00896	0.0125	14.6 - 88.8	17.5	71.7	mg/L	122 *	30.0
TCLP Nitrobenzene	1124486	0.00337	0.0121	0.0125	34.3 - 113	27.0 *	96.8	mg/L	113 *	30.0
TCLP Pentachlorophenol	1124486	0.00308	0.0112	0.0125	15.7 - 129	24.6	89.6	mg/L	114 *	30.0
TCLP Pyridine (Reg. Limit 5)	1124486	0.00651	0.00574	0.0125	0.0753 - 83.4	52.1	45.9	mg/L	12.7	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2305180	0.106	0	ND	0.125	33.7 - 116	84.8		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2305180	0.108	0	ND	0.125	20.1 - 131	86.4		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2305180	0.102	0	ND	0.125	31.8 - 135	81.6		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2305180	0.101	0	ND	0.125	10.6 - 106	80.8		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2305180	0.090	0	ND	0.125	0.100 - 149	72.0		mg/L		30.0
TCLP Hexachlorobenzene	2305180	0.0945	0	ND	0.125	35.9 - 125	75.6		mg/L		30.0
TCLP Hexachlorobutadiene	2305180	0.0611	0	ND	0.125	11.1 - 88.5	48.9		mg/L		30.0
TCLP Hexachloroethane	2305180	0.0668	0	ND	0.125	8.41 - 88.1	53.4		mg/L		30.0
TCLP Nitrobenzene	2305180	0.113	0	ND	0.125	28.7 - 119	90.4		mg/L		30.0
TCLP Pentachlorophenol	2305180	0.100	0	ND	0.125	8.33 - 141	80.0		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2305180	0.0556	0	ND	0.125	0.100 - 97.2	44.5		mg/L		30.0

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	624031	49.3	0.050	126478318

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SPCC

Parameter	*Sample*	*RF*	*Minimum*	*File*
TCLP 4-Nitrophenol	624031	45.3	0.050	126478318
TCLP Hexachlorocyclopentadiene	624031	58.2	0.050	126478318
TCLP N-Nitroso-n-propylamine	624031	30.9	0.050	126478318

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	624031	CCV	47.4	100	mg/L	47.4	9.79 - 123	126478318
2-Fluorobiphenyl-SURR	624031	CCV	49.1	50.0	mg/L	98.2	0.100 - 131	126478318
2-Fluorophenol-SURR	624031	CCV	56.9	100	mg/L	56.9	5.36 - 80.2	126478318
4-Terphenyl-d14-SURR	624031	CCV	56.0	50.0	mg/L	112	0.100 - 137	126478318
Nitrobenzene-d5-SURR	624031	CCV	51.9	50.0	mg/L	104	0.100 - 131	126478318
Phenol-d6-SURR	624031	CCV	49.5	100	mg/L	49.5	0.100 - 66.5	126478318
2,4,6-Tribromophenol	1124018	Blank	2.06	3.33	mg/L	61.9	9.79 - 123	126478326
2-Fluorobiphenyl-SURR	1124018	Blank	33.7	50.0	mg/L	67.4	0.100 - 131	126478326
2-Fluorophenol-SURR	1124018	Blank	44.5	100	mg/L	44.5	5.36 - 80.2	126478326
4-Terphenyl-d14-SURR	1124018	Blank	49.3	50.0	mg/L	98.6	0.100 - 137	126478326
Nitrobenzene-d5-SURR	1124018	Blank	39.6	50.0	mg/L	79.2	0.100 - 131	126478326
Phenol-d6-SURR	1124018	Blank	34.1	100	mg/L	34.1	0.100 - 66.5	126478326
2,4,6-Tribromophenol	1124486	Blank	1.72	3.33	mg/L	51.7	9.79 - 123	126478319
2,4,6-Tribromophenol	1124486	LCS	0.660	3.33	mg/L	19.8	9.79 - 123	126478320
2,4,6-Tribromophenol	1124486	LCS Dup	2.08	3.33	mg/L	62.5	9.79 - 123	126478321
2-Fluorobiphenyl-SURR	1124486	Blank	32.6	50.0	mg/L	65.2	0.100 - 131	126478319
2-Fluorobiphenyl-SURR	1124486	LCS	5.41	50.0	mg/L	10.8	0.100 - 131	126478320
2-Fluorobiphenyl-SURR	1124486	LCS Dup	20.8	50.0	mg/L	41.6	0.100 - 131	126478321
2-Fluorophenol-SURR	1124486	Blank	35.6	100	mg/L	35.6	5.36 - 80.2	126478319
2-Fluorophenol-SURR	1124486	LCS	19.8	100	mg/L	19.8	5.36 - 80.2	126478320
2-Fluorophenol-SURR	1124486	LCS Dup	38.6	100	mg/L	38.6	5.36 - 80.2	126478321
4-Terphenyl-d14-SURR	1124486	Blank	39.2	50.0	mg/L	78.4	0.100 - 137	126478319
4-Terphenyl-d14-SURR	1124486	LCS	8.75	50.0	mg/L	17.5	0.100 - 137	126478320
4-Terphenyl-d14-SURR	1124486	LCS Dup	23.5	50.0	mg/L	47.0	0.100 - 137	126478321
Nitrobenzene-d5-SURR	1124486	Blank	36.3	50.0	mg/L	72.6	0.100 - 131	126478319
Nitrobenzene-d5-SURR	1124486	LCS	6.69	50.0	mg/L	13.4	0.100 - 131	126478320
Nitrobenzene-d5-SURR	1124486	LCS Dup	24.3	50.0	mg/L	48.6	0.100 - 131	126478321
Phenol-d6-SURR	1124486	Blank	27.8	100	mg/L	27.8	0.100 - 66.5	126478319
Phenol-d6-SURR	1124486	LCS	17.4	100	mg/L	17.4	0.100 - 66.5	126478320
Phenol-d6-SURR	1124486	LCS Dup	28.1	100	mg/L	28.1	0.100 - 66.5	126478321
2,4,6-Tribromophenol	2305180	MS	0.539	1.00	mg/L	53.9	9.79 - 123	126478328
2-Fluorobiphenyl-SURR	2305180	MS	0.176	0.500	mg/L	35.2	0.100 - 131	126478328
2-Fluorophenol-SURR	2305180	MS	0.360	1.00	mg/L	36.0	5.36 - 80.2	126478328
4-Terphenyl-d14-SURR	2305180	MS	0.176	0.500	mg/L	35.2	0.100 - 137	126478328
Nitrobenzene-d5-SURR	2305180	MS	0.207	0.500	mg/L	41.4	0.100 - 131	126478328
Phenol-d6-SURR	2305180	MS	0.270	1.00	mg/L	27.0	0.100 - 66.5	126478328
2,4,6-Tribromophenol	2307462	Unknown	0.612	1.00	mg/L	61.2	9.79 - 123	126478337
2-Fluorobiphenyl-SURR	2307462	Unknown	0.370	0.500	mg/L	74.0	0.100 - 131	126478337
2-Fluorophenol-SURR	2307462	Unknown	0.497	1.00	mg/L	49.7	5.36 - 80.2	126478337

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QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Terphenyl-d14-SURR	2307462	Unknown	0.440	0.500	mg/L	88.0	0.100 - 137	126478337
Nitrobenzene-d5-SURR	2307462	Unknown	0.407	0.500	mg/L	81.4	0.100 - 131	126478337
Phenol-d6-SURR	2307462	Unknown	0.357	1.00	mg/L	35.7	0.100 - 66.5	126478337
2,4,6-Tribromophenol	2307463	Unknown	0.471	1.00	mg/L	47.1	9.79 - 123	126478338
2-Fluorobiphenyl-SURR	2307463	Unknown	0.335	0.500	mg/L	67.0	0.100 - 131	126478338
2-Fluorophenol-SURR	2307463	Unknown	0.400	1.00	mg/L	40.0	5.36 - 80.2	126478338
4-Terphenyl-d14-SURR	2307463	Unknown	0.390	0.500	mg/L	78.0	0.100 - 137	126478338
Nitrobenzene-d5-SURR	2307463	Unknown	0.357	0.500	mg/L	71.4	0.100 - 131	126478338
Phenol-d6-SURR	2307463	Unknown	0.306	1.00	mg/L	30.6	0.100 - 66.5	126478338

Analytical Set 1125278 EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1124018	ND	0.0183	0.020	mg/L	126478690
TCLP Endrin	1124018	ND	0.000538	0.001	mg/L	126478690
TCLP gamma-BHC (Lindane)	1124018	ND	0.000385	0.001	mg/L	126478690
TCLP Heptachlor	1124018	0.000566	0.000207	0.001	mg/L	126478690
TCLP Heptachlor Epoxide	1124018	ND	0.00066	0.001	mg/L	126478690
TCLP Methoxychlor	1124018	ND	0.000898	0.001	mg/L	126478690
TCLP Toxaphene	1124018	ND	0.000169	0.0002	mg/L	126478690
TCLP Chlordane	1124695	ND	0.0183	0.020	mg/L	126478677
TCLP Endrin	1124695	ND	0.000538	0.001	mg/L	126478677
TCLP gamma-BHC (Lindane)	1124695	ND	0.000385	0.001	mg/L	126478677
TCLP Heptachlor	1124695	ND	0.000207	0.001	mg/L	126478677
TCLP Heptachlor Epoxide	1124695	ND	0.00066	0.001	mg/L	126478677
TCLP Methoxychlor	1124695	ND	0.000898	0.001	mg/L	126478677
TCLP Toxaphene	1124695	ND	0.000169	0.0002	mg/L	126478677

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.051	0.050	mg/L	102	70.0 - 130	126478676
TCLP Endrin	0.0513	0.050	mg/L	103	70.0 - 130	126478686
TCLP Endrin	0.0496	0.050	mg/L	99.1	70.0 - 130	126478695
TCLP gamma-BHC (Lindane)	0.0479	0.050	mg/L	95.8	70.0 - 130	126478676
TCLP gamma-BHC (Lindane)	0.045	0.050	mg/L	90.1	70.0 - 130	126478686
TCLP gamma-BHC (Lindane)	0.0447	0.050	mg/L	89.5	70.0 - 130	126478695
TCLP Heptachlor	0.0471	0.050	mg/L	94.1	70.0 - 130	126478676
TCLP Heptachlor	0.0459	0.050	mg/L	91.8	70.0 - 130	126478686
TCLP Heptachlor	0.0455	0.050	mg/L	91.0	70.0 - 130	126478695
TCLP Heptachlor Epoxide	0.0481	0.050	mg/L	96.3	70.0 - 130	126478676
TCLP Heptachlor Epoxide	0.0481	0.050	mg/L	96.3	70.0 - 130	126478686
TCLP Heptachlor Epoxide	0.0456	0.050	mg/L	91.2	70.0 - 130	126478695
TCLP Methoxychlor	0.0442	0.050	mg/L	88.3	70.0 - 130	126478676
TCLP Methoxychlor	0.0488	0.050	mg/L	97.6	70.0 - 130	126478686
TCLP Methoxychlor	0.053	0.050	mg/L	106	70.0 - 130	126478695

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QUALITY CONTROL

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1124695	0.0772	0.0788	0.100	42.6 - 137	77.2	78.8	mg/L	2.05	30.0
TCLP gamma-BHC (Lindane)	1124695	0.0654	0.0647	0.100	33.0 - 129	65.4	64.7	mg/L	1.08	30.0
TCLP Heptachlor	1124695	0.0567	0.0572	0.100	24.2 - 129	56.7	57.2	mg/L	0.878	30.0
TCLP Heptachlor Epoxide	1124695	0.0725	0.0694	0.100	40.8 - 128	72.5	69.4	mg/L	4.37	30.0
TCLP Methoxychlor	1124695	0.0733	0.088	0.100	33.3 - 146	73.3	88.0	mg/L	18.2	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2307343	0.00384	0	ND	0.005	24.3 - 151	76.8		mg/L		30.0
TCLP gamma-BHC (Lindane)	2307343	0.00333	0	ND	0.005	21.3 - 144	66.6		mg/L		30.0
TCLP Heptachlor	2307343	0.00305	0	ND	0.005	14.9 - 138	61.0		mg/L		30.0
TCLP Heptachlor Epoxide	2307343	0.00427	0	ND	0.005	29.9 - 133	85.4		mg/L		30.0
TCLP Methoxychlor	2307343	0.00491	0	ND	0.005	10.3 - 183	98.2		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	625249	CCV	0.0466	0.100	mg/L	46.6	10.0 - 150	126478676
Decachlorobiphenyl	625249	CCV	0.0448	0.100	mg/L	44.8	10.0 - 150	126478686
Decachlorobiphenyl	625249	CCV	0.0424	0.100	mg/L	42.4	10.0 - 150	126478695
Tetrachloro-m-Xylene (Surr)	625249	CCV	0.0437	0.100	mg/L	43.7	10.0 - 150	126478676
Tetrachloro-m-Xylene (Surr)	625249	CCV	0.0431	0.100	mg/L	43.1	10.0 - 150	126478686
Tetrachloro-m-Xylene (Surr)	625249	CCV	0.0436	0.100	mg/L	43.6	10.0 - 150	126478695
Decachlorobiphenyl	1124018	Blank	0.0792	0.100	mg/L	79.2	10.0 - 150	126478690
Tetrachloro-m-Xylene (Surr)	1124018	Blank	0.0743	0.100	mg/L	74.3	10.0 - 150	126478690
Decachlorobiphenyl	1124695	Blank	0.0624	0.100	mg/L	62.4	10.0 - 150	126478677
Decachlorobiphenyl	1124695	LCS	0.0618	0.100	mg/L	61.8	10.0 - 150	126478678
Decachlorobiphenyl	1124695	LCS Dup	0.0689	0.100	mg/L	68.9	10.0 - 150	126478679
Tetrachloro-m-Xylene (Surr)	1124695	Blank	0.0516	0.100	mg/L	51.6	10.0 - 150	126478677
Tetrachloro-m-Xylene (Surr)	1124695	LCS	0.0514	0.100	mg/L	51.4	10.0 - 150	126478678
Tetrachloro-m-Xylene (Surr)	1124695	LCS Dup	0.0533	0.100	mg/L	53.3	10.0 - 150	126478679
Decachlorobiphenyl	2307343	MS	0.00334	0.005	mg/L	66.8	10.0 - 150	126478692
Tetrachloro-m-Xylene (Surr)	2307343	MS	0.00257	0.005	mg/L	51.4	10.0 - 150	126478692
Decachlorobiphenyl	2307462	Unknown	0.00354	0.005	mg/L	70.8	10.0 - 150	126478693
Tetrachloro-m-Xylene (Surr)	2307462	Unknown	0.00269	0.005	mg/L	53.8	10.0 - 150	126478693
Decachlorobiphenyl	2307463	Unknown	0.00346	0.005	mg/L	69.2	10.0 - 150	126478694
Tetrachloro-m-Xylene (Surr)	2307463	Unknown	0.0035	0.005	mg/L	70.0	10.0 - 150	126478694

Analytical Set 1125316 — EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1125316	174	229	1.6	0 - 2.00	126480081
BFB Mass 174	1125316	95.0	14730	57.5	50.0 - 100	126480081
BFB Mass 175	1125316	174	1188	8.1	5.00 - 9.00	126480081
BFB Mass 176	1125316	174	14367	97.5	95.0 - 101	126480081
BFB Mass 177	1125316	176	963	6.7	5.00 - 9.00	126480081

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QUALITY CONTROL

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BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 50	1125316	95.0	5247	20.5	15.0 - 40.0	126480081
BFB Mass 75	1125316	95.0	13121	51.2	30.0 - 60.0	126480081
BFB Mass 95	1125316	95.0	25635	100.0	100 - 100	126480081
BFB Mass 96	1125316	95.0	1683	6.6	5.00 - 9.00	126480081

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1125316	ND	0.000574	0.001	mg/L	126480085
TCLP 1,1-Dichloroethene	1125316	ND	0.000574	0.001	mg/L	126480086
TCLP 1,1-Dichloroethene	1125316	ND	0.000574	0.001	mg/L	126480094
TCLP 1,2-Dichloroethane	1125316	ND	0.00059	0.001	mg/L	126480085
TCLP 1,2-Dichloroethane	1125316	ND	0.00059	0.001	mg/L	126480086
TCLP 1,2-Dichloroethane	1125316	ND	0.00059	0.001	mg/L	126480094
TCLP 1,4 Dichlorobenzene	1125316	ND	0.000837	0.001	mg/L	126480085
TCLP 1,4 Dichlorobenzene	1125316	ND	0.000837	0.001	mg/L	126480086
TCLP 1,4 Dichlorobenzene	1125316	ND	0.000837	0.001	mg/L	126480094
TCLP Benzene	1125316	ND	0.000453	0.001	mg/L	126480085
TCLP Benzene	1125316	ND	0.000453	0.001	mg/L	126480086
TCLP Benzene	1125316	ND	0.000453	0.001	mg/L	126480094
TCLP Carbon tetrachloride	1125316	ND	0.000299	0.001	mg/L	126480085
TCLP Carbon tetrachloride	1125316	ND	0.000299	0.001	mg/L	126480086
TCLP Carbon tetrachloride	1125316	ND	0.000299	0.001	mg/L	126480094
TCLP Chlorobenzene	1125316	ND	0.000558	0.001	mg/L	126480085
TCLP Chlorobenzene	1125316	ND	0.000558	0.001	mg/L	126480086
TCLP Chlorobenzene	1125316	ND	0.000558	0.001	mg/L	126480094
TCLP Chloroform	1125316	ND	0.000463	0.001	mg/L	126480085
TCLP Chloroform	1125316	ND	0.000463	0.001	mg/L	126480086
TCLP Chloroform	1125316	ND	0.000463	0.001	mg/L	126480094
TCLP MEK	1125316	ND	0.000742	0.001	mg/L	126480085
TCLP MEK	1125316	ND	0.000742	0.001	mg/L	126480086
TCLP MEK	1125316	ND	0.000742	0.001	mg/L	126480094
TCLP Tetrachloroethylene	1125316	ND	0.000607	0.001	mg/L	126480085
TCLP Tetrachloroethylene	1125316	ND	0.000607	0.001	mg/L	126480086
TCLP Tetrachloroethylene	1125316	ND	0.000607	0.001	mg/L	126480094
TCLP Trichloroethylene	1125316	ND	0.000521	0.001	mg/L	126480085
TCLP Trichloroethylene	1125316	ND	0.000521	0.001	mg/L	126480086
TCLP Trichloroethylene	1125316	ND	0.000521	0.001	mg/L	126480094
TCLP Vinyl chloride	1125316	ND	0.000702	0.001	mg/L	126480085
TCLP Vinyl chloride	1125316	ND	0.000702	0.001	mg/L	126480086
TCLP Vinyl chloride	1125316	ND	0.000702	0.001	mg/L	126480094

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0219	0.020	mg/L	110	70.0 - 130	126480082
TCLP 1,2-Dichloroethane	0.0199	0.020	mg/L	99.5	70.0 - 130	126480082

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QUALITY CONTROL

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,4 Dichlorobenzene	0.0203	0.020	mg/L	102	70.0 - 130	126480082
TCLP Benzene	0.0209	0.020	mg/L	104	70.0 - 130	126480082
TCLP Carbon tetrachloride	0.0197	0.020	mg/L	98.5	70.0 - 130	126480082
TCLP Chlorobenzene	0.0205	0.020	mg/L	102	70.0 - 130	126480082
TCLP Chloroform	0.0206	0.020	mg/L	103	70.0 - 130	126480082
TCLP MEK	0.0205	0.020	mg/L	102	70.0 - 130	126480082
TCLP Tetrachloroethylene	0.0222	0.020	mg/L	111	70.0 - 130	126480082
TCLP Trichloroethylene	0.0212	0.020	mg/L	106	70.0 - 130	126480082
TCLP Vinyl chloride	0.0194	0.020	mg/L	97.0	70.0 - 130	126480082

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1125316	CCV	130100	130100	91070	169100	126480082	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	LCS	129700	130100	91070	169100	126480083	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	LCS Dup	127100	130100	91070	169100	126480084	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	115300	130100	91070	169100	126480085	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	112000	130100	91070	169100	126480086	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	103500	130100	91070	169100	126480094	1125316
ChlorobenzeneD5 (ISTD)	1125316	CCV	276100	276100	193300	359000	126480082	1125316
ChlorobenzeneD5 (ISTD)	1125316	LCS	278000	276100	193300	359000	126480083	1125316
ChlorobenzeneD5 (ISTD)	1125316	LCS Dup	282400	276100	193300	359000	126480084	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	258500	276100	193300	359000	126480085	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	238900	276100	193300	359000	126480086	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	229400	276100	193300	359000	126480094	1125316

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1125316	LCS	11.97	11.97	11.91	12.03	126480083	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	LCS Dup	11.97	11.97	11.91	12.03	126480084	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	11.97	11.97	11.91	12.03	126480085	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	11.97	11.97	11.91	12.03	126480086	1125316
1,4-DichlorobenzeneD4 (ISTD)	1125316	Blank	11.97	11.97	11.91	12.03	126480094	1125316
ChlorobenzeneD5 (ISTD)	1125316	LCS	9.597	9.597	9.537	9.657	126480083	1125316
ChlorobenzeneD5 (ISTD)	1125316	LCS Dup	9.597	9.597	9.537	9.657	126480084	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	9.597	9.597	9.537	9.657	126480085	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	9.597	9.597	9.537	9.657	126480086	1125316
ChlorobenzeneD5 (ISTD)	1125316	Blank	9.597	9.597	9.537	9.657	126480094	1125316

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1125316	0.023	0.0218	0.020	56.7 - 135	115	109	mg/L	5.36	30.0
TCLP 1,2-Dichloroethane	1125316	0.0199	0.0192	0.020	69.8 - 132	99.5	96.0	mg/L	3.58	30.0
TCLP 1,4 Dichlorobenzene	1125316	0.0211	0.0209	0.020	74.8 - 116	106	104	mg/L	1.90	30.0
TCLP Benzene	1125316	0.0212	0.0202	0.020	67.1 - 123	106	101	mg/L	4.83	30.0
TCLP Carbon tetrachloride	1125316	0.0195	0.0194	0.020	60.1 - 132	97.5	97.0	mg/L	0.514	30.0
TCLP Chlorobenzene	1125316	0.0207	0.0196	0.020	74.0 - 115	104	98.0	mg/L	5.94	30.0

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QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Project
1106863

Printed 06/26/2024

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Chloroform	1125316	0.0204	0.0197	0.020	71.1 - 128	102	98.5	mg/L	3.49	30.0
TCLP MEK	1125316	0.0209	0.0203	0.020	40.7 - 166	104	102	mg/L	1.94	30.0
TCLP Tetrachloroethylene	1125316	0.0221	0.0205	0.020	71.2 - 126	110	102	mg/L	7.55	30.0
TCLP Trichloroethylene	1125316	0.0207	0.0195	0.020	71.4 - 126	104	97.5	mg/L	6.45	30.0
TCLP Vinyl chloride	1125316	0.0184	0.0174	0.020	18.5 - 155	92.0	87.0	mg/L	5.59	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1125316	CCV	0.0185	0.020	mg/L	92.5	74.2 - 132	126480082
1,2-DCA-d4 (SURR)	1125316	LCS	0.0186	0.020	mg/L	93.0	74.2 - 132	126480083
1,2-DCA-d4 (SURR)	1125316	LCS Dup	0.0186	0.020	mg/L	93.0	74.2 - 132	126480084
1,2-DCA-d4 (SURR)	1125316	Blank	0.0195	0.020	mg/L	97.5	74.2 - 132	126480085
1,2-DCA-d4 (SURR)	1125316	Blank	0.0203	0.020	mg/L	102	74.2 - 132	126480086
1,2-DCA-d4 (SURR)	1125316	Blank	0.0221	0.020	mg/L	110	74.2 - 132	126480094
Bromofluorobenzene (SURR)	1125316	CCV	0.0202	0.020	mg/L	101	77.2 - 134	126480082
Bromofluorobenzene (SURR)	1125316	LCS	0.0202	0.020	mg/L	101	77.2 - 134	126480083
Bromofluorobenzene (SURR)	1125316	LCS Dup	0.0205	0.020	mg/L	102	77.2 - 134	126480084
Bromofluorobenzene (SURR)	1125316	Blank	0.0206	0.020	mg/L	103	77.2 - 134	126480085
Bromofluorobenzene (SURR)	1125316	Blank	0.0208	0.020	mg/L	104	77.2 - 134	126480086
Bromofluorobenzene (SURR)	1125316	Blank	0.0207	0.020	mg/L	104	77.2 - 134	126480094
Dibromofluoromethane (SURR)	1125316	CCV	0.019	0.020	mg/L	95.0	67.2 - 122	126480082
Dibromofluoromethane (SURR)	1125316	LCS	0.0192	0.020	mg/L	96.0	67.2 - 122	126480083
Dibromofluoromethane (SURR)	1125316	LCS Dup	0.0191	0.020	mg/L	95.5	67.2 - 122	126480084
Dibromofluoromethane (SURR)	1125316	Blank	0.019	0.020	mg/L	95.0	67.2 - 122	126480085
Dibromofluoromethane (SURR)	1125316	Blank	0.0189	0.020	mg/L	94.5	67.2 - 122	126480086
Dibromofluoromethane (SURR)	1125316	Blank	0.0201	0.020	mg/L	100	67.2 - 122	126480094
ToluneneD8 (SURR)	1125316	CCV	0.0191	0.020	mg/L	95.5	69.2 - 122	126480082
ToluneneD8 (SURR)	1125316	LCS	0.0196	0.020	mg/L	98.0	69.2 - 122	126480083
ToluneneD8 (SURR)	1125316	LCS Dup	0.0191	0.020	mg/L	95.5	69.2 - 122	126480084
ToluneneD8 (SURR)	1125316	Blank	0.0189	0.020	mg/L	94.5	69.2 - 122	126480085
ToluneneD8 (SURR)	1125316	Blank	0.0197	0.020	mg/L	98.5	69.2 - 122	126480086
ToluneneD8 (SURR)	1125316	Blank	0.0201	0.020	mg/L	100	69.2 - 122	126480094
1,2-DCA-d4 (SURR)	2307462	Unknown	0.0189	0.020	mg/L	94.5	74.2 - 132	126480097
Bromofluorobenzene (SURR)	2307462	Unknown	0.0203	0.020	mg/L	102	77.2 - 134	126480097
Dibromofluoromethane (SURR)	2307462	Unknown	0.0191	0.020	mg/L	95.5	67.2 - 122	126480097
ToluneneD8 (SURR)	2307462	Unknown	0.0192	0.020	mg/L	96.0	69.2 - 122	126480097
1,2-DCA-d4 (SURR)	2307463	Unknown	0.0195	0.020	mg/L	97.5	74.2 - 132	126480098
Bromofluorobenzene (SURR)	2307463	Unknown	0.020	0.020	mg/L	100	77.2 - 134	126480098
Dibromofluoromethane (SURR)	2307463	Unknown	0.0197	0.020	mg/L	98.5	67.2 - 122	126480098
ToluneneD8 (SURR)	2307463	Unknown	0.0189	0.020	mg/L	94.5	69.2 - 122	126480098

Analytical Set 1125339 EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1124968	ND	43.0	250	ug/kg	126480400

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QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Project
1106863

Printed 06/26/2024

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1221	1124968	ND	43.0	250	ug/kg	126480400
PCB-1232	1124968	ND	43.0	250	ug/kg	126480400
PCB-1242	1124968	ND	43.0	250	ug/kg	126480400
PCB-1248	1124968	ND	43.0	250	ug/kg	126480400
PCB-1254	1124968	ND	43.0	250	ug/kg	126480400
PCB-1260	1124968	ND	43.0	250	ug/kg	126480400

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	996	1000	ug/kg	99.6	80.0 - 120		126480392
PCB-1016	1180	1000	ug/kg	118	80.0 - 120		126480411
PCB-1260	1100	1000	ug/kg	110	80.0 - 120		126480392
PCB-1260	1250	1000	ug/kg	125	80.0 - 120	*	126480411

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1124968	5140	5420	5000	28.4 - 187	103	108	ug/kg	4.74	30.0
PCB-1260	1124968	6030	6330	5000	22.3 - 183	121	127	ug/kg	4.84	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2309251	5450	5280	ND	10000	0.100 - 427	54.5	52.8	ug/kg	3.17	30.0
PCB-1260	2309251	6200	5990	ND	10000	0.100 - 470	62.0	59.9	ug/kg	3.45	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1124968	Blank	133	100	ug/kg	133	10.0 - 200	126480400
Tetrachloro-m-Xylene (Surr)	1124968	Blank	101	100	ug/kg	101	10.0 - 160	126480400
Decachlorobiphenyl	2307462	Unknown	691	503	ug/kg	137	10.0 - 200	126480406
Tetrachloro-m-Xylene (Surr)	2307462	Unknown	532	503	ug/kg	106	10.0 - 160	126480406
Decachlorobiphenyl	2307463	Unknown	380	495	ug/kg	76.8	10.0 - 200	126480407
Tetrachloro-m-Xylene (Surr)	2307463	Unknown	371	495	ug/kg	74.9	10.0 - 160	126480407

Analytical Set 1125393 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1124018	ND	0.000159	0.0005	mg/L	126481208
TCLP 2,4,5-TP (Silvex)	1124018	ND	0.0000893	0.0003	mg/L	126481208
TCLP 2,4 D	1124943	ND	0.000159	0.0005	mg/L	126481205
TCLP 2,4,5-TP (Silvex)	1124943	ND	0.0000893	0.0003	mg/L	126481205

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.160	0.150	mg/L	106	70.0 - 130	126481204
TCLP 2,4 D	0.157	0.150	mg/L	104	70.0 - 130	126481213
TCLP 2,4,5-TP (Silvex)	0.162	0.150	mg/L	108	70.0 - 130	126481204

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QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
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Burnet, TX 78611

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Printed 06/26/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-TP (Silvex)	0.163	0.150	mg/L	109	70.0 - 130	126481213

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1124943	0.000957	0.00108	0.001	2.06 - 194	95.7	108	mg/L	12.1	30.0
TCLP 2,4,5-TP (Silvex)	1124943	0.000986	0.00108	0.001	19.3 - 162	98.6	108	mg/L	9.10	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2307463	0.984	0	ND	1.00	0.100 - 228	98.4		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2307463	0.976	0	0.00662	1.00	2.02 - 165	96.9		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.161	0.200	mg/L	80.5	0.100 - 294	126481204
2,4-Dichlorophenylacetic Acid		CCV	0.164	0.200	mg/L	82.0	0.100 - 294	126481213
2,4-Dichlorophenylacetic Acid	1124018	Blank	0.115	0.200	mg/L	57.5	0.100 - 294	126481208
2,4-Dichlorophenylacetic Acid	1124943	Blank	0.0958	0.200	mg/L	47.9	0.100 - 294	126481205
2,4-Dichlorophenylacetic Acid	1124943	LCS	0.0925	0.200	mg/L	46.2	0.100 - 294	126481206
2,4-Dichlorophenylacetic Acid	1124943	LCS Dup	0.100	0.200	mg/L	50.0	0.100 - 294	126481207
2,4-Dichlorophenylacetic Acid	2307462	Unknown	1.34	2.00	mg/L	67.0	0.100 - 294	126481210
2,4-Dichlorophenylacetic Acid	2307463	Unknown	1.51	2.00	mg/L	75.5	0.100 - 294	126481211
2,4-Dichlorophenylacetic Acid	2307463	MS	0.902	2.00	mg/L	45.1	0.100 - 294	126481212

* 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); 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.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); 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; 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.); 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.); DFTPP - GC/MS Tuning Compound; 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.)

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1106863 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

05/30/2024 Page 1 of 3

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
103

Phone 512/470-3003

PO Number _____

Annual Sludge

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sampler Printed Name Richard Harrison

Sampler Affiliation Operator City of Burnet

Sampler Signature

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

Ana-Lab # (Lab Only)	Sample ID	Bottles	Date	Time	Notes
2307462	WTP	5	6/12/24	1015	WTP
2307463	WWTP	5	6/12/24	1115	WWTP

2 Glass Qt w/Teflon lined lid

	S40	Shipping	
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
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	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	*Hg*	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)

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CHAIN OF CUSTODY

05/30/2024 Page 2 of 3

City of Burnet
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1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
103

Phone 512/470-3003

Annual Sludge

NELAC	**TABN**	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)

3 Glass 4 oz w/Teflon lined lid

NELAC	**301S**	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
NELAC	**NHaN**	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
NELAC	**TKN**	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)
NELAC	***KI**	Potassium	EPA 6010C CAS:7440-09-7 (180 days)
NELAC	***PI**	Phosphorus	EPA 6010C CAS:7723-14-0 (180 days)
NELAC	***PbM**	Lead, Total	EPA 6020A CAS:7439-92-1 (180 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	***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	***ZnM**	Zinc, Total	EPA 6020A CAS:7440-66-6 (180 days)
NELAC	***SeM**	Selenium, Total	EPA 6020A CAS:7782-49-2 (180 days)
NELAC	**747S**	Solid Metals Digestion Hg	EPA 7471B (28.0 days)
NELAC	***HgS**	Mercury	EPA 7471B 2 CAS:7439-97-6 (28.0 days)
NELAC	**!PCB**	Polychlorinated Biphenyls	EPA 8082 (7.00 days)
NELAC	**!N3S**	Nitrate-Nitrogen	EPA 9056 CAS:14797-55-8 (28.0 days)
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

1106863 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

05/30/2024 Page 3 of 3

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
103

Phone 512/470-3003

Annual Sludge

Date Time	Relinquished		Received	
6/12/24 1225	Printed Name Richard Harrison	Affiliation COB operator	Printed Name William Ward	Affiliation SPL
6/12/24	Signature		Signature	
1700	Printed Name William Ward	Affiliation SPL	Printed Name FedEx	Affiliation
	Signature		Signature	
6/13/24	Printed Name FedEx	Affiliation	Printed Name Andy Owens - SPL, Inc.	Affiliation
1030	Signature		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	

Sample Recieved on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ 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

1106863 CoC Print Group 001 of 001

ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 12JUN24
ACTWGT: 75.00 LB
CAD: 104384799/INET4730
DIMS: 24x14x14 IN
BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

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

583J3/6CA9/9AE3

FedEx Express

J242024032601uv

THU - 13 JUN 5:00P
STANDARD OVERNIGHT

TRK# 0201 7767 5810 6570

AH GGGA

75662
TX-US SHV

6/13 1030 ANV
Date Time Tech
mp: 0.2 0.3 C
erm#: 6443 Corr Fact: 0.1 C

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The Science of Sure

Project
1106861

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed 06/24/2024
16:46

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1

SAMPLE CROSS REFERENCE

Project
1106861

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307453	*1*	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124081	06/14/2024	1124081	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307454	*2*	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124236	06/14/2024	1124236	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307455	*3*	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124081	06/14/2024	1124081	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307456	*4*	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124236	06/14/2024	1124236	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received

Email: Kilgore.ProjectManagement@spllabs.com

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SAMPLE CROSS REFERENCE

Project
1106861

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

2307457	5	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124081	06/14/2024	1124081	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307458	6	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124236	06/14/2024	1124236	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

Sample	Sample ID	Taken	Time	Received
2307459	7	06/12/2024	12:30:00	06/13/2024

Bottle 01 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 02 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1124081	06/14/2024	1124081	06/14/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024

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Printed: 06/24/2024

RESULTS

Sample Results

2307453 1 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124081 06/14/2024 13:53:00 — Analyzed 1124081 06/14/2024 13:53:00 — CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	21400 *	MPN/gram	1170			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	15.4	%	0.010			01

2307454 2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124236 06/14/2024 12:53:00 — Analyzed 1124236 06/14/2024 12:53:00 — MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	47000 *	MPN/gram	1210			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.9	%	0.010			01

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2307455 3 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124081 06/14/2024 13:53:00 — Analyzed 1124081 06/14/2024 13:53:00 — CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	44900 *	MPN/gram	1150			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	15.6	%	0.010			01

2307456 4 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124236 06/14/2024 12:53:00 — Analyzed 1124236 06/14/2024 12:53:00 — MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	88400 *	MPN/gram	1220			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.7	%	0.010			01

2307457 5 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

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2307457 5 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124081 06/14/2024 13:53:00 — Analyzed 1124081 06/14/2024 13:53:00 — CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	74800 *	MPN/gram	1220			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.7	%	0.010			01

2307458 6 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124236 06/14/2024 12:53:00 — Analyzed 1124236 06/14/2024 12:53:00 — MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	15800 *	MPN/gram	1230			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.6	%	0.010			01

2307459 7 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

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Printed: 06/24/2024

2307459 7 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/12/2024 12:30:00

SM 9221 E-2014 (A1) — Prepared: 1124081 06/14/2024 13:53:00 — Analyzed 1124081 06/14/2024 13:53:00 CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	74300 *	MPN/gram	1220			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	14.8	%	0.010			01

Sample Preparation

2307453 1 — Received: 06/13/2024

06/12/2024

Prepared: 12/31/1899 11:35:08 — Calculated 11:35:08 CAL

z	Environmental Fee (per Project)	Verified

Calculation — Prepared: 06/17/2024 10:33:43 — Calculated 06/17/2024 10:33:43 CAL

	As Received to Dry Weight Basis	Calculated

SM 2540 G-1997 — Prepared: 1123892 06/13/2024 17:25:00 — Analyzed 1123892 06/13/2024 17:25:00 BEK

NELAC	Total Solids Start Code	Started

SM 9221 E-2014 (A1) — Prepared: 1124080 06/13/2024 11:30:00 — Analyzed 1124080 06/13/2024 11:30:00 CP1

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2307453 1 — Received: 06/13/2024

06/12/2024

SM 9221 E-2014 (A1)	*Prepared:*	*1124080*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124080*	*06/13/2024*	*11:30:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2307454 2 — Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/24/2024*	*16:18:44*	*Calculated*		*06/24/2024*	*16:18:44*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124234*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124234*	*06/13/2024*	*11:30:00*	*MDM*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2307455 3 — Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/17/2024*	*10:33:43*	*Calculated*		*06/17/2024*	*10:33:43*	*CAL*
As Received to Dry Weight Basis	**Calculated**								

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2307455 3 — Received: 06/13/2024

06/12/2024

SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124080*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124080*	*06/13/2024*	*11:30:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2307456 4 — Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/24/2024*	*16:18:44*	*Calculated*		*06/24/2024*	*16:18:44*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124234*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124234*	*06/13/2024*	*11:30:00*	*MDM*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2307457 5 — Received: 06/13/2024

06/12/2024

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2307457 5 — Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/17/2024*	*10:33:43*	*Calculated*		*06/17/2024*	*10:33:43*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124080*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124080*	*06/13/2024*	*11:30:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2307458 6 — Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/24/2024*	*16:18:44*	*Calculated*		*06/24/2024*	*16:18:44*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124234*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124234*	*06/13/2024*	*11:30:00*	*MDM*
NELAC **FC Path Red MPN Started**	**STARTED**								01

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Printed: 06/24/2024

2307459 7

Received: 06/13/2024

06/12/2024

Calculation	*Prepared:*		*06/17/2024*	*10:33:43*	*Calculated*		*06/17/2024*	*10:33:43*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1124080*	*06/13/2024*	*11:30:00*	*Analyzed*	*1124080*	*06/13/2024*	*11:30:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

Qualifiers:

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

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

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

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

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Printed: 06/24/2024

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Printed 06/24/2024

Analytical Set 1124081 — SM 9221 E-2014 (A1)

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
FC - Solid/Sludge MPN Class A/B	1124081	PASS	1.80	1.80	MPN/gram	126449522

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
FC - Solid/Sludge MPN Class A/B	1124080	POSITIVE	POSITIVI	MPN/gram		-	126449523

Analytical Set 1124236 — SM 9221 E-2014 (A1)

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
FC - Solid/Sludge MPN Class A/B	1124236	PASS	1.80	1.80	MPN/gram	126453900

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
FC - Solid/Sludge MPN Class A/B	1124234	POSITIVE	POSITIVI	MPN/gram		-	126453901

Analytical Set 1124142 — SM2540 G-1997 /MOD

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Solids for Dry Wt Conversi	1124142	0.0001			grams	126450317

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Solids for Dry Wt Conversi	2307462	69.5	69.7	%	0.287	20.0
Total Solids for Dry Wt Conversi	2307521	79.0	79.1	%	0.127	20.0
Total Solids for Dry Wt Conversi	2307542	84.3	84.0	%	0.357	20.0

* 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)

Email: Kilgore.ProjectManagement@spllabs.com

1106861 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

05/28/2024 Page 1 of 2

City of Burnet
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Burnet, TX 78611

BUR9 -C
104

Phone 512/470-3003

PO Number _____

7 Part Fecal - Sludge

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sampler Printed Name DAVID JORDAN

Sampler Affiliation OPERator

Sampler Signature

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

Ana-Lab # (Lab Only)	Sample ID	Bottles	Date	Time	Notes
2307453	1	2	6/12/24	1230	
2307454	2	2	6/12/24	1230	
2307455	3	2	6/12/24	1230	
2307456	4	2	6/12/24	1230	
2307457	5	2	6/12/24	1230	
2307458	6	2	6/12/24	1230	
2307459	7	2	6/12/24	1230	

1 Glass 4 oz w/Teflon lined lid

NELAC **TS%** Total Solids for Dry Wt Conversi SM2540 G-1997 /MOD

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CHAIN OF CUSTODY

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City of Burnet
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Burnet, TX 78611

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Phone 512/470-3003

7 Part Fecal - Sludge

0 Z -- No bottle required
ARDW As Received to Dry Weight Basis Calculation

7 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized for FCPR
NELAC Short Hold FCPR FC - Solid/Sludge MPN Class A/B SM 9221 E-2014 (A1) (1.00 days)

Date Time	Relinquished		Received	
6/12/24	Printed Name DAVID JORDAN	Affiliation OPERATOR	Printed Name W.	Affiliation SPL
1230	Signature		Signature	
6/12/24	Printed Name William Owen	Affiliation SPL	Printed Name FedEx	Affiliation
1700	Signature		Signature	
6/13/24	Printed Name FedEx	Affiliation	Printed Name Andy Owens - SP	Affiliation
1030	Signature		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	

Sample Recieved on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ 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

ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 12JUN24
ACTWGT: 75.00 LB
CAD: 104384799/INET4730
DIMS: 24x14x14 IN
BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

KILGORE TX 75662
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ATTACHMENT S

REPORT OF AGRICULTURAL PRACTICES

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

REPORT OF AGRICULTURAL PRACTICES
CITY OF BURNET

Crops grown on the sites include coastal / Johnson grass / hay grazer and rye (cool months). Yields of 5 tons/acre/year are targeted with about 3 cuttings/year. All areas are planted. Sewage sludge may be applied every 2-4 weeks. Sludge will be aerobically digested, thickened, and dewatered further by belt press (or backup drying beds). A covered dump truck or roll off may be used for transport to the sites or landfill. A dozer/other equipment may be used to spread sludge evenly across the application areas for prompt tilling into soil as a beneficial soil amendment. Timing of applications is to be coordinated with soil/weather/runoff conditions and harvesting/baling activities. Records will be maintained and appropriate testing of sludge and soils will be performed and reported per the permit. Septage has not been and is not planned to be applied. The future option to apply acceptable water treatment plant sludge is also proposed. About 89.1 dry metric tons of sewage sludge was applied from June 2022 – May 2023. No water plant sludge was applied during this time.

ATTACHMENT T

SOIL PROPERTIES

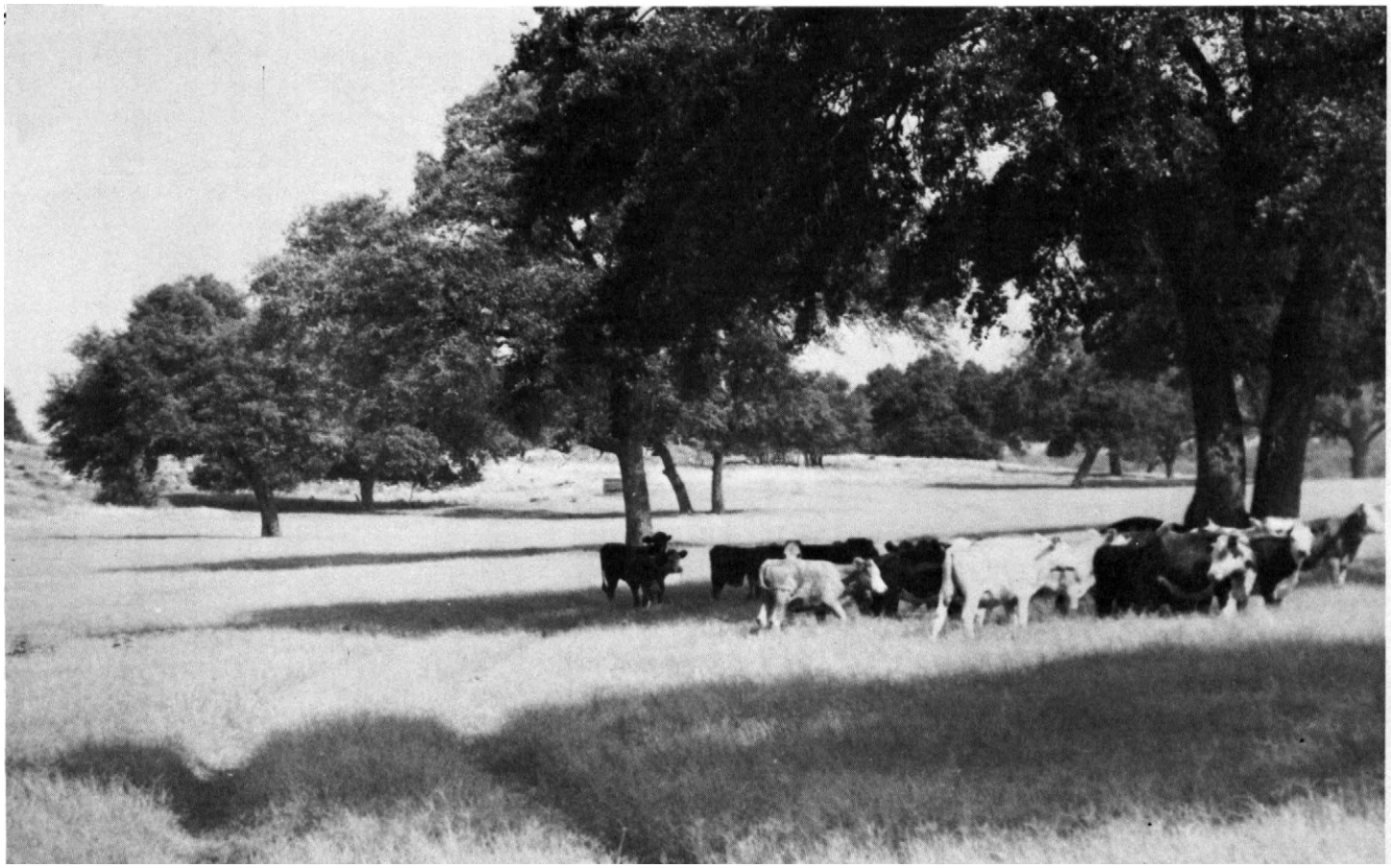
CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

SOIL SURVEY OF

Blanco and Burnet Counties, Texas



United States Department of Agriculture
Soil Conservation Service
in cooperation with
Texas Agricultural Experiment Station

This soil is in capability subclass IIIe and Redland range site.

16—Hensley loam, 3 to 5 percent slopes. This shallow, gently sloping soil is underlain by limestone. Slopes are convex. Areas are roughly long and oval and range from 25 to 125 acres.

Typically, the surface layer is firm, reddish brown loam 5 inches thick. At a depth of 5 to 15 inches is firm, red clay. The underlying material is fractured limestone bedrock.

This soil is well drained. Runoff is medium. Permeability is slow, and available water capacity is very low. The root zone is shallow. The hazard of water erosion is moderate.

Included with this soil in mapping are small areas of Doss and Pedernales soils, and a few small areas of Rock outcrop and gravelly soil. They make up 8 to 20 percent of the map unit.

This soil has low potential for cultivated crops and tame pasture. Grain sorghum, grasses for hay, and oats are the principal crops. The use of crop residue helps to control water erosion, conserve moisture, improve soil tilth, and increase the water intake rate. Contour farming is needed in most areas to control water erosion. Cutting into limestone bedrock is a hazard if cuts or excavations exceed about 15 inches.

This soil has low potential for native range plants. Shallow rooting depth and low available moisture limit the production of mid and tall grasses in favorable years. The range is an oak savannah that has post, blackjack, and Texas oak. Dominant grasses are indiangrass, big bluestem, Canada and Virginia wildrye, sideoats grama, Texas wintergrass, vine-mesquite, tall dropseed, feathery bluestem, plains lovegrass, Texas cupgrass, and buffalograss.

This soil has medium potential for wildlife habitat. The areas are used by deer, dove, and quail. Several woody plants, forbs, and grasses provide cover, browse, fruits, and seeds for wildlife.

This soil has low potential for most urban uses. Depth to limestone bedrock and corrosivity to uncoated steel are limitations. This soil has medium potential for recreational uses. Depth to limestone bedrock is a limitation that is difficult to overcome.

This soil is in capability subclass IVe and Redland range site.

17—Hensley association, undulating. This association consists of shallow, stony, loamy soils that are underlain by limestone. Slopes are convex and range from 1 to 8 percent. The areas are irregular and range from 40 to 400 acres. Limestone and dolomite outcrops, limestone fragments, and angular and rounded chert fragments are in spots, patches, and narrow bands. The spots and patches are a few feet across; the bands are 10 to as much as 70 feet across and range from 50 to 700 feet long.

Hensley soils make up an average of 80 percent of each mapped area. The rest of the association is small areas of Anhalt, Pedernales, and Tarpley soils.

Typically, the Hensley soils have a surface layer of very friable, reddish brown stony loam about 5 inches thick that has about 15 percent by volume angular quartz and chert pebbles. About 20 percent of the surface is covered by limestone and quartz fragments. At a depth of 5 to 18 inches is firm, reddish brown clay that has about 15 percent by volume angular quartz and chert pebbles. The underlying material is indurated, fractured limestone bedrock (fig. 9). Reaction is neutral.

These soils are well drained. Runoff is medium. Permeability is slow, and the available water capacity is very low. The root zone is shallow. The hazard of water erosion hazard is severe.

The soils in this association are not suited to cultivated crops or tame pasture.

These soils are used for range. They have medium potential for native range plants. The range is an oak savannah. Dominant grasses are little bluestem, indiangrass, big bluestem, Canada and Virginia wildrye, sideoats grama, Texas wintergrass, vine-mesquite, tall dropseed, feathery bluestem, plains lovegrass, Texas cupgrass, and buffalograss.

These soils have medium potential for wildlife habitat. The areas are used by deer, dove, and quail. Several woody plants, forbs, and grasses provide cover, browse, fruits, and seeds for wildlife.

These soils have low potential for recreational uses. Depth to limestone bedrock and stoniness are limitations that are difficult to overcome.

These soils have low potential for most urban uses. Depth to limestone bedrock, stoniness, and corrosivity to uncoated steel are limitations.

This association is in capability subclass VIs and Redland range site.

18—Houston Black clay, 0 to 1 percent slopes. This deep, nearly level soil is in smooth, shallow valleys on uplands. Slopes are slightly concave. The areas are irregular and range from 35 to 80 acres. In virgin areas, the surface has a gilgai microrelief which consists of microknolls and microdepressions. The microknolls are 6 to 10 inches higher than the microdepressions. Cycles of these microknolls and microdepressions occur every 10 to 24 feet. Evidence of gilgai microrelief is destroyed after a few years of cultivation.

Typically, the surface layer in the center of a microdepression is very firm, dark gray clay 42 inches thick. At a depth of 42 to 80 inches is very firm, grayish brown clay. Reaction is moderately alkaline.

This soil is moderately well drained. Permeability is very slow, and available water capacity is high. Runoff is slow. When this soil is dry, wide, deep cracks extend to

veins of schist are common after periods of high rainfall. The hazard of water erosion is moderate.

The rock outcrops are made up of dikes of long, narrow outcroppings of quartz. These outcrops are 1 to 5 acres. Schist and quartz pebbles are commonly on the surface around the outcrops.

The soils in this association have low potential for cultivated crops and tame pasture. Shallow rooting depth, schist outcrop, and very low available water capacity are the limitations.

These soils are used mainly for range. They have medium potential for range plants. Medium runoff, very low available water capacity, and shallow rooting depth limit the amount of forage production in favorable years. The range is mainly grassland that has a few scattered live oak trees, mid and short grasses, forbs, and a few small shrubs. Dominant vegetation is Texas wintergrass, fall switchgrass, buffalograss, hairy tridens, threeawns, prairie coneflower, Texas persimmon, and whitebrush.

These soils have medium potential for wildlife habitat. The areas are used by deer, turkey, dove, quail, and several species of nongame birds and small animals.

The soils in this association have medium potential for recreational uses and low to medium potential for most urban uses. Depth to rock, corrosivity to uncoated steel, low strength, and a clay loam surface are limitations.

Ligon soils are in capability subclass IVs and Schist range site. Rock outcrop is not assigned to a capability subclass or a range site.

29—Luckenbach clay loam, 1 to 3 percent slopes. This is a deep, gently sloping soil. Slopes are convex. The areas are irregular and range from 20 to 45 acres.

Typically, the surface layer is firm, dark reddish gray clay loam about 17 inches thick. At a depth of 17 to 25 inches is firm, dark brown clay loam. The next layer at a depth of 25 to 36 inches is firm, reddish brown clay that has calcium carbonate concretions in the lower part. Below this, extending to a depth of 80 inches, is friable, clay loam. It is reddish yellow in the upper part and very pale brown in the lower part that contains many hard and soft bodies of calcium carbonate. Reaction is moderately alkaline.

This soil is well drained. Runoff is medium. Permeability is moderately slow, and available water capacity is medium. The root zone is moderately deep; clay content, however, tends to impede movement of air, water, and roots. The hazard of water erosion is slight.

Included in mapping are small areas of Bolar, Lewisville, and Pedernales soils. The inclusions make up less than 10 percent of the map unit.

This soil is used for cultivated crops and for range. Grain sorghum, oats, wheat, tame pasture, and grass for hay are the main crops.

This soil has high potential for cultivated crops and tame pasture. Use of crop residue helps prevent water erosion, conserve moisture, improve soil tilth, and increase water intake. This soil has good tilth if it is cultivated at low moisture content. Contour farming and terraces are needed in most areas to control water erosion. Grassed waterways provide good outlets for terrace systems if excess water is a problem. This soil responds well to application of fertilizer. Nitrogen and phosphorus are needed.

This soil has medium potential for native range plants. Production of tall and midgrasses is good in favorable years. The range is tall grass prairie. Elm and hackberry trees grow along small streams, and single live oak trees or live oak motts are widely spaced throughout. Dominant grasses are little bluestem, indiangrass, big bluestem, sideoats grama, Texas wintergrass, Texas cupgrass, cane and pinhole bluestem, vine-mesquite, and tall dropseed.

This soil has medium potential for wildlife habitat. The areas are used by deer, dove, and quail. Lack of cover, however, limits use by deer and quail.

This soil has medium potential for recreational uses. The clayey surface layer and moderately slow permeability are limitations.

This soil has medium potential for most urban uses. Moderate shrinking and swelling when there are changes in moisture content, corrosivity to uncoated steel, and a clayey texture are limitations. Most of these limitations can be overcome by good design and careful installation procedures. Because the clayey underlying layer restricts permeability, septic tank absorption fields require special design.

This soil is in capability subclass IIe and Clay Loam range site.

30—Nebgen-Oben-Rock outcrop association, rolling. This association consists of shallow, stony, and loamy soils and Rock outcrop on rolling uplands. Slopes are convex and range from 5 to 16 percent. Areas are irregular or long and oval and range from 200 to 800 acres.

Nebgen soils make up an average of 50 percent of the association but range from 20 to 70 percent of each mapped area. Oben soils average 25 percent of the association but range from 10 to 60 percent of each mapped area. Rock outcrop makes up an average of about 15 percent of the association but ranges from 10 to 30 percent. Other soils, steep areas of Nebgen and Oben soils and areas of Hye soils make up about 10 to 20 percent of the association.

Typically, Nebgen soils have a surface layer of very friable, reddish brown fine sandy loam about 14 inches thick. It has 10 percent by volume angular sandstone cobbles. At a depth of 14 to 19 inches is mixed reddish brown weathered sandstone and brown fine sandy loam. The underlying material is cemented sandstone plates (fig. 13). Reaction is neutral.

Nebgen soils are well drained. Runoff is rapid. Permeability is moderately rapid, and available water capacity is

very low. The root zone is shallow. Seeps along the top of the sandstone bedrock are common after periods of heavy rainfall. The hazard of water erosion is severe.

Typically, Oben soils have a surface layer of very friable, brown stony sandy loam about 7 inches thick. From 7 to 15 inches is friable, reddish brown sandy clay that has sandstone plates of cobble size. The underlying material is cemented sandstone plates. Reaction is neutral.

Oben soils are well drained. Runoff is medium. Permeability is moderate, and available water capacity is very low. The root zone is shallow. The hazard of water erosion is severe.

The sandstone Rock outcrop, which is in a random pattern across the mapped area, projects 6 to 12 inches above the surface. The areas of outcrops are long and narrow or long and oval and are from 0.1 to 1.0 acre. In a few places, prominent sandstone boulders are 2 to as much as 6 feet high.

The soils in this association are used mainly for range. They are not suited to cultivated crops and tame pasture. They have low potential for native range plants. Moderate to rapid runoff, very low available water capacity, and shallow rooting depth limit the amount of forage production in favorable years. The range is a post oak, blackjack oak, live oak savannah. Dominant grasses are little bluestem, sideoats grama, indiangrass, hooded windmillgrass, cane bluestem, and pinhole bluestem.

The soils have low potential for wildlife habitat. The areas are used by deer, turkey, quail, dove, and squirrel.

The soils in this association have medium potential for most recreational uses and low potential for most urban uses. Slope, Rock outcrop, and shallow depth to sandstone bedrock are limitations.

Nebgen soils are in capability subclass VIIs and Sandstone Hills range site. Oben soils are in capability subclass VIs and Red Sandy Loam range site. Rock outcrop is not assigned to a capability subclass or a range site.

31—Oakalla loam. This deep, nearly level soil is on flood plains of major streams. Slopes are smooth to slightly concave and range from 0 to 1 percent. Areas are long and oval or long and narrow and range from 20 to 250 acres.

Typically, the surface layer is very friable, dark grayish brown loam about 8 inches thick. At a depth of 8 to 22 inches is friable, dark grayish brown clay loam that has threads of calcium carbonate. The next layer at a depth of 22 to 56 inches is friable, brown clay loam that has many threads and films of calcium carbonate. Below this, extending to a depth of 63 inches is friable, light yellowish brown clay loam that has soft bodies of calcium carbonate. Reaction is moderately alkaline.

This soil is well drained. Runoff is slow. Permeability is moderate, and available water capacity is high. The root zone is deep. Air, water, and roots move through the soil easily. This soil receives additional water and floods about once every 2 to 8 years for a few hours. The hazard of water erosion is none to slight.

Included with this soil in mapping are small areas of Karnes soil, Oakalla silty clay loam, and small areas of a soil similar to Oakalla soil that has a dark surface layer less than 20 inches thick. The inclusions make up 16 to 20 percent of the map unit.

This soil is used for cultivated crops and for range. Grain sorghum, oats, wheat, tame pasture, and grass for hay are the principal crops.

This soil has high potential for cultivated crops and tame pasture. Use of crop residue helps to control water erosion, improve fertility, reduce crusting, increase water infiltration, and conserve moisture. It also helps to improve soil tilth and increase water intake. Because of the high content of lime, a yellowing of the leaves or iron chlorosis is a problem on this soil. The soil responds well to application of fertilizer. Nitrogen and phosphorus are needed.

This soil has medium potential for native range plants. Production of tall and midgrasses is good in favorable years. Cypress, pecan, elm, and oak trees commonly grow near the water; some trees, however, are away from the streams together with grasses and forbs. Shrubs occur as understory and in open land. Dominant grasses are big bluestem, indiangrass, eastern gamagrass, little bluestem, switchgrass, and broadleaf uniola.

This soil has high potential for wildlife habitat. The area is used by deer, squirrel, turkey, dove, quail, and other birds. Beaver, raccoon, fox, cottontail, and other animals also inhabit the area.

This soil has medium potential for most recreational uses. Flooding is a limitation.

This soil has low to medium potential for urban uses. Flooding, seepage, low strength, and corrosivity to uncoated steel are limitations.

This soil is in capability class I and Loamy Bottomland range site.

32—Oakalla silty clay loam. This deep, nearly level soil is on flood plains of major streams. Slopes are smooth to slightly concave and range from 0 to 1 percent. Areas are long and oval or long and narrow and range from 15 to 30 acres.

Typically, the surface layer is firm, very dark grayish brown silty clay loam 23 inches thick. At a depth of 23 to 60 inches is firm, brown silty clay loam. Reaction is moderately alkaline.

This soil is well drained. Runoff is slow. Permeability is moderate, and available water capacity is high. The root zone is deep. Air, water, and roots move through the soil easily. The hazard of water erosion is none to slight. This soil receives additional water and floods about once every 2 to 8 years for a few hours.

Included with this soil in mapping are small areas of Lewisville and Karnes soils, and Oakalla loam. The inclusions make up 5 to 15 percent of the map unit.

This soil is used for cultivated crops and for range. Grain sorghum, oats, wheat, tame pasture, and grass for hay are the principal crops.

This soil has high potential for cultivated crops and tame pasture. Use of crop residue helps to improve fertility, reduce crusting, control water erosion, increase water infiltration, and conserve moisture. It also helps to improve soil tilth and increase water intake. This soil needs to be tilled at low moisture content. Because of the high content of lime, yellowing of the leaves or iron chlorosis is a problem on this soil. The soil responds well to application of fertilizer. Nitrogen and phosphorus are needed.

This soil has medium potential for native range plants. Production of tall and midgrasses is good in favorable years. Cypress, pecan, elm, and oak trees commonly grow near water, but some trees are away from the stream in the savannah together with grasses and forbs. Shrubs occur as understory and in open land. Dominant grasses are big bluestem, indiangrass, eastern gamagrass, little bluestem, switchgrass, and broadleaf uniola.

This soil has high potential for wildlife habitat. The areas are used by deer, squirrel, turkey, dove, quail, and other birds. Beaver, raccoon, fox, cottontail, and other animals also inhabit this area.

This soil has medium potential for most recreational uses. The silty clay loam surface layer and flooding are limitations.

This soil has low to medium potential for urban uses. Flooding, seepage, low strength, and corrosivity to uncoated steel are limitations.

This soil is in capability class I and Loamy Bottomland range site.

33—Oben fine sandy loam, 1 to 5 percent slopes. This shallow, gently sloping soil is on convex ridges. Areas are irregular and range from 20 to 95 acres.

Typically, the surface layer is very friable, reddish brown fine sandy loam 6 inches thick. At a depth of 6 to 14 inches is very friable, reddish brown loam. The next layer at a depth of 14 to 19 inches is friable, reddish brown sandy clay loam that has a few sandstone fragments. The underlying material is plates of cemented sandstone. Reaction is neutral.

This soil is well drained. Runoff is medium. Permeability is moderate, and available water capacity is very low. The root zone is shallow. Air, water, and roots move through the soil easily. The hazard of water erosion is moderate.

Included with this soil in mapping are small areas of Hye, Eckert, and Nebgen soils. Also included are small areas of a soil that is similar to Oben soil that has a sandy clay or clay subsoil. The inclusions make up 5 to 20 percent of the map unit.

This soil is used mostly for range. A few small areas are used for cultivated crops. Oats is the main crop.

This soil has low potential for cultivated crops and tame pasture. Shallow rooting depth and very low available water capacity are limitations. Use of crop residue helps control water erosion, conserve moisture, improve soil tilth, and increase water intake.

This soil has medium potential for native range plants. Production of tall and midgrasses is medium in favorable years. The range is a live oak-post oak savannah. Trees grow to relatively large size on this soil. Live oak is more abundant than post oak. Dominant grasses are little bluestem, sandhill lovegrass, sideoats grama, pinhole bluestem, hooded windmillgrass, plains lovegrass, and sandbur.

This soil has medium potential for wildlife habitat. The areas are used by deer, turkey, quail, dove, and several species of nongame birds and small animals.

This soil has high potential for recreational uses. However, because of shallow depth to rock, the potential is low for playgrounds.

This soil has low potential for most urban uses. Shallow depth to rock is a limitation. Cutting into cemented, fractured sandstone is a hazard if cuts or excavations exceed about 19 inches.

This soil is in capability subclass IVe and Red Sandy loam range site.

34—Owens association, hilly. This association consists of shallow, shaly, clayey soils on hills that have sharp ravines and gullies which extend into the valley below. Slopes are convex and range from 10 to 30 percent. Areas are irregular and range from 260 to 700 acres.

Owens soils make up 60 to 80 percent of the association. A soil that is similar to Owens soils but is slightly deeper to bedrock makes up 10 to 30 percent of each mapped area. The rest of the association is small areas of Brackett and Throck variant soils.

Typically, Owens soils have a surface layer of firm, pale olive clay about 4 inches thick. At a depth of 4 to 12 inches is firm, pale olive clay. Below this to a depth of 18 inches is very firm, olive clay that contains soft bodies and threads of calcium carbonate. The underlying material is pale olive platy shale. Reaction is moderately alkaline.

These soils are well drained. Runoff is rapid. Permeability is very slow, and available water capacity is very low. The root zone is shallow. Seeps are common after periods of high rainfall. The hazard of water erosion is severe.

The soils in this association are not suited to cultivated crops or tame pasture. Shallow rooting depth, slope, and low available water capacity are limitations. These soils are used for range.

These soils have low potential for native range plants. Dominant grasses are sideoats grama, little bluestem, and Texas wintergrass. Also included are such woody brush species as whitebrush, elm, and hackberry.

These soils have low potential for wildlife habitat. The areas are used by dove, quail, deer, and turkey. Several forbs and grasses provide good cover, fruits, and seeds for game birds.

These soils have low potential for most recreational and urban uses. Slope, very slow permeability, high shrinking and swelling when there are changes in moisture content, a clayey texture, and corrosivity to uncoated steel are limitations.

This association is in capability subclass VIIs and Shallow Clay range site.

35—Pedernales fine sandy loam, 1 to 3 percent slopes. This is a deep, gently sloping soil. Slopes are convex. Areas are circular or oblong and range from 20 to 50 acres.

Typically, the surface layer is very friable, reddish brown fine sandy loam about 11 inches thick. At a depth of 11 to 17 inches is very firm, red sandy clay. The next layer at a depth of 17 to 38 inches is very firm, red sandy clay. Below this, extending to a depth of 80 inches, is very firm, reddish yellow sandy clay (fig. 14). Reaction is neutral to a depth of 38 inches and moderately alkaline below.

This soil is well drained. Runoff is medium. Permeability is moderately slow, and available water capacity is high. The root zone is deep. Clay content, however, tends to impede movement of air, water, and roots. The hazard of water erosion is slight.

Included with this soil in mapping are small areas of Hensley and Heaton soils. The inclusions make up less than 15 percent of the map unit.

This soil is used for cultivated crops and for range.

This soil has medium potential for cultivated crops and tame pasture. Wheat, oats, grain sorghum, and peaches are the main crops. Peaches grow well on this soil. Use of crop residue helps to control water erosion, conserve moisture, improve soil tilth, and increase water intake. Contour farming and grassed waterways provide good outlets for terrace systems if excess water is a problem. This soil responds well to application of fertilizer. Nitrogen and phosphorus are needed.

This soil has medium potential for native range plants. Production of nutritious, palatable, tall and midgrasses is medium in favorable years. The range is mixed prairie grassland that has scattered live oak and a few post oak trees. Some elm and hackberry grow along drainageways. Dominant grasses are sideoats grama, little bluestem, hooded windmillgrass, Texas wintergrass, and switchgrass.

This soil has high potential for wildlife habitat. The areas are used by deer, quail, turkey, dove, and several species of nongame birds and small animals.

This soil has high to medium potential for recreational uses. Moderately slow permeability is a limitation.

This soil has medium potential for most urban uses. Shrinking and swelling of the lower layers when there are changes in moisture content, and low strength and corrosivity to uncoated steel are limitations. Most of these limitations can be overcome by good design and careful installation procedures.

This soil is in capability subclass IIe and Tight Sandy Loam range site.

36—Pedernales fine sandy loam, 3 to 5 percent slopes. This is a moderately deep, gently sloping soil. Slopes are convex. Areas are long and oval and range from 30 to 60 acres.

Typically, the surface layer is very friable, reddish brown fine sandy loam about 8 inches thick. At a depth of 8 to 24 inches is very firm, red sandy clay. The next layer at a depth of 24 to 36 inches is very firm, red sandy clay. The underlying material is plates of cemented caliche. Reaction is slightly acid to a depth of about 8 inches and neutral below.

This soil is well drained. Surface runoff is medium. Permeability is moderately slow, and available water capacity is high. The root zone is moderately deep. Clay content tends to impede movement of air, water, and roots. The hazard of water erosion is moderate.

Included with this soil in mapping are small areas of Hensley, Doss, and Heaton soils. The inclusions make up 6 to 17 percent of the map unit.

This soil is used for cultivated crops and for range.

This soil has medium potential for cultivated crops and tame pasture. Wheat, oats, grain sorghum, and peaches are the main crops. Peaches grow well on this soil. Use of crop residue helps control water erosion, conserve moisture, improve soil tilth, and increase water intake. This soil responds well to application of fertilizer. Nitrogen and phosphorus are needed.

This soil has medium potential for native range plants. Production of nutritious, palatable tall and midgrasses is medium in favorable years. The range is mixed prairie grassland that has scattered live oak and a few post oak trees. Some elm and hackberry are along drainageways. Dominant grasses are sideoats grama, little bluestem, hooded windmillgrass, Texas wintergrass, and switchgrass.

This soil has high potential for wildlife habitat. The areas are used by deer, quail, turkey, dove, and several species of nongame birds and small animals.

This soil has high to medium potential for some recreational uses. Moderately slow permeability is a limitation.

This soil has medium potential for most urban uses. Shrinking and swelling of the lower layers when there are changes in moisture content, and low strength and corrosivity to uncoated steel are limitations. Most of these limitations can be overcome by good design and installation procedures.

This soil is in capability subclass IIIe and Tight Sandy Loam range site.

The A horizon is brown, light brown, pink, or reddish brown. The Bt horizon is red, yellowish red, or reddish brown sandy clay loam that has about 24 to 35 percent content of clay.

Hensley series

The Hensley series consists of shallow, well drained, gently sloping to sloping soils on erosional uplands. These soils formed in clayey residuum from limestone. They occupy hilltop positions and have slopes of 1 to 8 percent.

Typical pedon of Hensley stony loam in an area of Hensley association, undulating, in range; from the intersection of U.S. Highway 281 and U.S. Highway 290 in Johnson City, 3.0 miles north on U.S. Highway 281, 3.6 miles east on private ranch road, and 50 feet north:

A1—0 to 5 inches; reddish brown (5YR 4/4) stony loam, dark reddish brown (5YR 3/4) moist; weak medium subangular blocky structure; hard, very friable, slightly sticky; common fine and few medium roots; about 20 percent limestone fragments on surface; about 15 percent by volume angular quartz fragments 1/4 to 1/2 inch across in the soil; neutral; clear smooth boundary.

B2t—5 to 18 inches; reddish brown (2.5YR 4/4) clay, dark reddish brown (2.5YR 3/4) moist; moderate fine blocky structure; extremely hard, very firm, very sticky and plastic; few fine roots; 10 percent by volume quartz and chert fragments 1/8 to 1/2 inch across; neutral; abrupt smooth boundary.

R—18 to 19 inches; indurated fractured limestone.

The solum ranges from 10 to 18 inches in thickness over limestone. From 5 to 25 percent quartz and chert pebbles cover the surface and make up the soil content. Reaction of the soil is neutral to mildly alkaline.

The A horizon is reddish brown or brown loam or clay loam or their gravelly analogs that have clay content ranging from 25 to 38 percent. Where chroma is 3 or less, the horizon makes up less than one-third the thickness of the solum. The Bt horizon is reddish brown, dark reddish brown, or red clay loam or clay or their gravelly analogs that have clay content ranging from 35 to 50 percent.

Houston Black series

The Houston Black series consists of deep, moderately well drained soils that formed in calcareous clay and marl. Slopes range from 0 to 3 percent.

Typical pedon of Houston Black clay, 0 to 1 percent slopes, in a microdepression; from the intersection of U.S. Highway 183 and Ranch Road 2657 in the town of Briggs, 0.5 mile south on U.S. Highway 183, and 50 feet east:

Ap—0 to 6 inches; dark gray (10YR 4/1) clay, very dark gray (10YR 3/1) moist; moderate fine subangular blocky and moderate medium granular structure; extremely hard, very firm, very sticky and plastic; few fine roots; moderately alkaline; abrupt smooth boundary.

A11—6 to 25 inches; dark gray (10YR 4/1) clay, very dark gray (10YR 3/1) moist; moderate fine and medium angular blocky structure; extremely hard, very firm, very sticky and plastic; few fine roots; shiny ped faces; few fragments of snail shells; moderately alkaline; gradual wavy boundary.

A12—25 to 42 inches; dark gray (10YR 4/1) clay, very dark gray (10YR 3/1) moist; common medium dark grayish brown (2.5Y 4/2) mottles; moderate medium angular blocky structure; intersecting slickensides; extremely hard, very firm, sticky and plastic; few fragments of snail shells; few medium soft bodies of calcium carbonate; moderately alkaline; gradual wavy boundary.

AC1—42 to 50 inches; grayish brown (10YR 5/2) clay, dark gray (10YR 4/1) moist; moderate medium angular blocky structure; shiny ped faces; few streaks of very dark gray from upper horizon and few very dark grayish brown streaks; common soft bodies of calcium carbonate; few fine black concretions; moderately alkaline; gradual wavy boundary.

AC2—50 to 80 inches; grayish brown (10YR 5/2) clay with distinct coarse light olive brown mottles; weak medium angular blocky structure; very hard, very firm, very sticky and plastic; few fine masses of iron-manganese concretions; 5 percent by volume strongly cemented medium calcium carbonate concretions; few soft powdery bodies of calcium carbonate; moderately alkaline.

The solum ranges from 60 to more than 80 inches in thickness. Clay content ranges from about 50 to 60 percent. When dry, this soil has cracks that range from 1/2 inch to 3 inches wide to a depth of 16 inches. Intersecting slickensides begin at a depth of about 25 inches.

The A horizon is black, very dark gray, or dark gray. Matrix colors or mottles of more than 1.5 chroma are at a depth of more than 38 inches in 20 to 50 percent of the pedon. The AC horizon is light brownish gray, grayish brown, pale olive, or light olive brown.

Hye series

The Hye series consists of moderately deep, well drained soils that formed in material weathered from sandstone. Slopes range from 1 to 5 percent.

Typical pedon of Hye fine sandy loam, 1 to 5 percent slopes, in range; from intersection of U.S. Highway 281 and Ranch Road 962 in the town on Round Mountain, 6.1 miles northwest on Ranch Road 962, 0.7 mile south-

carbonate; few snail shells; calcareous; moderately alkaline.

The solum ranges from 38 to 60 inches in thickness. The A horizon is very dark grayish brown, dark grayish brown, or dark brown. The B2 horizon is brown, yellowish brown, or grayish brown. The Cca horizon is pale brown, light yellowish brown, or brownish yellow. Soft bodies, threads, and concretions of calcium carbonate range from 2 to 20 percent by volume below a depth of 40 inches.

Lewisville series

The Lewisville series consists of deep, well drained soils that formed in alluvium. Slopes range from 0 to 3 percent.

Typical pedon of Lewisville clay loam, 1 to 3 percent slopes, in cultivated field; from the intersection of Ranch Road 2657 and Ranch Road 963 in the town of Oakalla, 2.4 miles southwest on Ranch Road 963, and 300 feet west:

Ap—0 to 6 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky and moderate fine granular structure; hard, firm, sticky; many fine and common medium roots; few very fine cemented fragments of calcium carbonate; calcareous; moderately alkaline; abrupt smooth boundary.

A1—6 to 18 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky and moderate fine granular structure; hard, firm, sticky; common fine roots; few very fine rounded cemented fragments of calcium carbonate; calcareous; moderately alkaline; gradual smooth boundary.

B21ca—18 to 58 inches; light yellowish brown (10YR 6/4) clay loam, dark yellowish brown (10YR 4/4) moist; moderate fine subangular blocky structure; hard, firm, sticky; common fine soft and cemented bodies and fragments of calcium carbonate; calcareous; moderately alkaline; gradual smooth boundary.

B22ca—58 to 63 inches; light yellowish brown (10YR 6/4) clay loam, yellowish brown (10YR 5/4) moist; weak subangular blocky structure; hard, firm, sticky; about 20 percent threads, soft and cemented bodies of calcium carbonate; few cemented angular fragments of calcium carbonate 1/2 inch to 3 inches across; calcareous; moderately alkaline.

The solum ranges from 30 to 64 inches in thickness. The content of calcium carbonate in the 10- to 40-inch control section ranges from 23 to 38 percent.

The A horizon is brown, grayish brown, dark grayish brown, or dark brown. The B horizon is brown, light brown, light yellowish brown, yellowish brown, or light brownish gray clay loam or silty clay loam that has 5 to 20 percent visible carbonates. Depth to gravel ranges from 3 feet to more than 8 feet.

Ligon series

The Ligon series consists of shallow, well drained soils that formed in material weathered from schist. Slopes range from 1 to 8 percent.

Typical pedon of Ligon clay loam in an area of Ligon-Rock outcrop association, undulating, in range; from the intersection of Ranch Road 962 and Althaus Road, which is about 8.0 miles northwest of the town of Round Mountain, 0.75 mile west, and 75 feet north of center of road:

A1—0 to 4 inches; reddish brown (5YR 4/4) clay loam, reddish brown (5YR 4/4) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; many fine and common medium roots; few tubes and pores; neutral; clear wavy boundary.

B2t—4 to 15 inches; red (2.5YR 4/6) clay loam, dark red (2.5YR 3/6) moist; weak medium subangular blocky structure; hard, friable, sticky; common fine roots; few soft bodies of schist; few mica particles; few distinct clay films; neutral; clear wavy boundary.

C1—15 to 21 inches; partially decomposed schist; clear wavy boundary.

Cr—21 to 22 inches; weakly cemented schist, hardness of 2.5 on Moh's scale.

The solum ranges from 12 to 17 inches in thickness. Angular quartz and schist pebbles and cobbles range from 10 to 20 percent on the surface and from 5 to 10 percent in the soil. Reaction of the soil ranges from slightly acid to mildly alkaline.

The A horizon is dark reddish brown, reddish brown, or yellowish red loam or clay loam. The Bt horizon is dark reddish brown, dark red, red, or reddish brown clay loam that has 30 to 35 percent content of clay. The upper 6 inches of the C horizon has pockets and seams of fine earth in the cleavage planes.

Luckenbach series

The Luckenbach series consists of deep, well drained soils that formed in thick beds of calcareous clay loam and clay. Slopes range from 1 to 3 percent.

Typical pedon of Luckenbach clay loam, 1 to 3 percent slopes; from intersection of U.S. Highway 281 and Texas Highway 29 in the town of Burnet, 0.2 mile east, 1.8 miles south on Mormon Mill county road, and 0.3 mile southeast:

Ap—0 to 6 inches; dark reddish gray (5YR 4/2) clay loam, dark reddish brown (5YR 3/2) moist; moderate fine subangular blocky structure; hard, firm, sticky; mildly alkaline; abrupt smooth boundary.

A1—6 to 17 inches; dark brown (10YR 4/3) clay loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; hard, firm, sticky; mildly alkaline; clear smooth boundary.

B21t—17 to 25 inches; reddish brown (5YR 4/4) clay, dark reddish brown (5YR 3/4) moist; moderate fine subangular blocky and blocky structure; hard, firm; few fine concretions of calcium carbonate below a depth of about 20 inches; moderately alkaline; gradual smooth boundary.

B22tca—25 to 36 inches; reddish brown (5YR 5/4) clay, reddish brown (5YR 4/4) moist; moderate fine subangular blocky and blocky structure; hard, firm; about 10 percent by volume soft calcium carbonate concretions; calcareous; moderately alkaline; clear wavy boundary.

C1ca—36 to 48 inches; reddish yellow (5YR 6/6) clay loam, yellowish red (5YR 5/6) moist; massive; hard, friable; about 15 percent by volume soft and hard bodies of calcium carbonate and fragments of limestone; calcareous; moderately alkaline; clear smooth boundary.

C2ca—48 to 80 inches; very pale brown (10YR 7/3) clay loam; massive; about 25 percent by volume calcium carbonate concretions and limestone fragments.

The solum ranges from 36 to 48 inches in thickness. Depth to secondary carbonates ranges from 19 to 28 inches.

The A horizon is dark reddish gray, dark brown, or dark grayish brown. Reaction is neutral or mildly alkaline. The Bt horizon is reddish brown. The C horizon has 5 to 15 percent by volume soft bodies, lumps, and weakly and strongly cemented concretions of calcium carbonate that do not decrease appreciably as depth increases.

Nebgen series

The Nebgen series consists of shallow, well drained soils that formed in material weathered from sandstone. Slopes range from 3 to 20 percent.

Typical pedon of Nebgen fine sandy loam in an area of Nebgen-Oben-Rock outcrop association, rolling, in range; from the town of Sandy which is about 10 miles northwest of Johnson City, 1.1 miles west on Ranch Road 1323 to fence gate, and 150 feet north:

A1—0 to 14 inches; reddish brown (5YR 5/4) fine sandy loam, reddish brown (5YR 4/4) moist; weak fine subangular blocky and weak medium granular structure; soft, very friable, slightly sticky; common fine and medium roots; common fine pores; 10 to 15 percent angular sandstone cobbles on surface; neutral; clear wavy boundary.

C—14 to 19 inches; reddish brown (5YR 5/4) partially weathered cemented sandstone, reddish brown (5YR 4/4) moist; about 25 percent reddish brown (5YR 5/4) fine sandy loam in fractures and interstices; massive; neutral; abrupt wavy boundary.

Cr—19 to 23 inches; strongly cemented platy sandstone.

The solum ranges from 4 to 14 inches in thickness. It is light reddish brown, reddish brown, or brown fine sandy loam or loam that has about 15 to 20 percent content of clay. Soils that have chroma of less than 3.5 are less than 4 inches thick. Reaction of the soil is neutral or slightly acid.

The C horizon is partially weathered weakly cemented or cemented sandstone. The Cr horizon is reddish or brownish, strongly cemented sandstone; however, it can be broken easily when moist. Sandstone pebbles and cobbles cover from 10 to 25 percent of the surface.

Oakalla series

The Oakalla series consists of deep, well drained soils that formed in alluvium. Slopes range from 0 to 2 percent.

Typical pedon of Oakalla silty clay loam, in a cultivated field; from intersection of U.S. Highway 290 and Ranch Road 1 which is 0.5 mile west of the town of Hye, 0.1 mile west on Ranch Road 1, and 150 feet north:

Ap—0 to 8 inches; very dark grayish brown (10YR 3/2) silty clay loam, very dark brown (10YR 2/2) moist; moderate fine subangular blocky and moderate fine granular structure; hard, firm, sticky; common fine roots; about 43 percent calcium carbonate equivalent; few very fine weakly cemented bodies of calcium carbonate; calcareous; moderately alkaline; abrupt smooth boundary.

A11—8 to 16 inches; very dark grayish brown (10YR 3/2) silty clay loam, very dark brown (10YR 2/2) moist; moderate fine subangular blocky and moderate fine granular structure; hard, firm, sticky; common fine roots; about 43 percent calcium carbonate equivalent; few very fine weakly cemented bodies of calcium carbonate; calcareous; moderately alkaline; gradual smooth boundary.

A12—16 to 23 inches; very dark grayish brown (10YR 3/2) silty clay loam, very dark brown (10YR 2/2) moist; moderate medium subangular blocky structure; hard, firm, sticky; common fine roots; common fine pores; about 41 percent calcium carbonate equivalent; few very fine weakly cemented bodies of calcium carbonate; calcareous; moderately alkaline; gradual smooth boundary.

C—23 to 60 inches; brown (10YR 4/3) silty clay loam, dark brown (10YR 3/3) moist; massive; hard, firm, sticky; about 50 percent calcium carbonate equivalent; few films and threads of calcium carbonate and few weakly cemented bodies of calcium carbonate; few shell fragments; few dark streaks; calcareous; moderately alkaline.

The mollic epipedon is 20 to 34 inches thick. Calcium carbonate equivalent of the 10- to 40-inch control section ranges from 40 to 55 percent. Limestone pebbles make up as much as 10 percent of any one horizon to a depth of 72 inches.

The A horizon is very dark grayish brown, dark grayish brown, or dark brown silty clay loam or loam that has 25 to 40 percent clay. About 5 to 12 percent of the clay is carbonate clay. Some pedons have a B2 horizon below a depth of 20 inches that is brown, dark yellowish brown, yellowish brown, or light yellowish brown silty clay loam, loam, or clay loam. The C horizon is brown, yellowish brown, or light yellowish brown silty clay loam, loam, or clay loam. In some pedons, sediment of contrasting textures is at a depth of 6 to 10 feet.

Oben series

The Oben series consists of shallow, well drained soils that formed in material weathered from strongly cemented sandstone. Slopes range from 1 to 5 percent.

Typical pedon of Oben fine sandy loam, 1 to 5 percent slopes, in a cultivated field; from the town of Sandy which is about 10 miles northwest of Johnson City, 1.5 miles south on Ranch Road 1323, 1.4 miles southeast to farmhouse, and 300 feet east:

A1—0 to 6 inches; reddish brown (5YR 4/4) fine sandy loam, dark reddish brown (5YR 3/4) moist; weak fine subangular blocky structure; slightly hard, slightly sticky; common fine and medium roots; common fine tubes and pores; few soft angular sandstone fragments 1/4 to 1/2 inch across; neutral; clear wavy boundary.

B21t—6 to 14 inches; reddish brown (5YR 5/4) loam, reddish brown (5YR 4/4) moist; weak fine subangular blocky structure; slightly hard, very friable, slightly sticky; common fine and medium grass roots; common fine tubes and pores; few patchy clay films; few fine soft angular sandstone fragments 1/4 to 1/2 inch across; neutral; abrupt wavy boundary.

B22t—14 to 19 inches; reddish brown (5YR 5/4) sandy clay loam, reddish brown (5YR 4/4) moist; moderate fine and medium subangular blocky structure; hard, friable, sticky; common soft and weakly cemented sandstone fragments 1/4 to 1/2 inch across; neutral; abrupt wavy boundary.

Cr—19 to 26 inches; olive yellow (2.5Y 6/6) weakly cemented thick platy sandstone 1/4 to 3/4 inch across with Moh's hardness of about 2; soil and roots between plates; noncalcareous.

The solum ranges from 12 to 20 inches in thickness. The content of coarse fragments ranges from 5 to 15 percent in the soil. Plates or angular fragments from 4 to 12 inches across are on 10 to 15 percent of the surface.

The A horizon is light reddish brown or reddish brown. The Bt horizon is reddish yellow, light reddish brown, or reddish brown fine sandy loam or sandy clay loam that has 16 to 25 percent content of clay. The Cr horizon is reddish brown, reddish yellow, pink, or olive yellow sandstone plates or long angular fragments.

Owens series

The Owens series consists of shallow, well drained soils that formed in material weathered from clayey shale. Slopes range from 10 to 30 percent.

Typical pedon of Owens clay in an area of Owens association, hilly, in range; from intersection of U.S. Highway 281 and Texas Highway 29 in Johnson City, 0.2 mile east, 5.5 miles south on Mormon Mill county road, and 50 feet west:

A1—0 to 4 inches; pale olive (5Y 6/3) clay, olive (5Y 5/3) moist; weak fine angular blocky structure; hard, firm, sticky; common fine roots; calcareous; moderately alkaline; gradual smooth boundary.

Bca—4 to 12 inches; pale olive (5Y 6/4) clay, olive (5Y 5/4) moist; moderate medium angular blocky structure; hard, firm, sticky; common fine roots; about 5 percent by volume soft bodies of calcium carbonate; calcareous; moderately alkaline; gradual smooth boundary.

Cca—12 to 18 inches; olive (5Y 5/3) clay, olive (5Y 4/3) moist; massive; extremely hard, very firm, sticky; about 10 percent by volume soft bodies and threads of calcium carbonate; calcareous; moderately alkaline; clear wavy boundary.

Cr—18 to 25 inches; pale olive (5Y 6/4) shaly clay, olive (5Y 5/4) moist and weakly cemented platy shale.

The solum ranges from 12 to 20 inches in thickness. The soil ranges from clay loam to clay and contains from 0 to 15 percent coarse fragments. Clay content ranges from 37 to 45 percent.

The A horizon is pale olive or grayish brown, the Bca horizon is pale olive or olive brown, and the Cca horizon is olive or light olive brown. The Cr horizon is shaly clay or cemented shale.

Pedernales series

The Pedernales series consists of deep, well drained soils that formed in calcareous sandy clay loam. Slopes range from 1 to 5 percent.

Typical pedon of Pedernales fine sandy loam, 1 to 3 percent slopes, in range; from the junction of Ranch Road 962 and county road which is 6.8 miles northwest of the town of Round Mountain, 2.15 miles southwest on county road, and 10 feet south of road:

A1—0 to 11 inches; reddish brown (5YR 5/4) fine sandy loam, reddish brown (5YR 4/4) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky; many fine and few medium roots; neutral; clear smooth boundary.

B21t—11 to 17 inches; red (2.5YR 5/6) sandy clay, red (2.5YR 4/6) moist; moderate medium prismatic structure parting to moderate medium blocky; very hard, very firm, sticky; common fine and medium roots; distinct clay films on ped faces; neutral; gradual smooth boundary.

B22t—17 to 38 inches; red (2.5YR 4/6) sandy clay, red (2.5YR 4/6) moist; moderate medium blocky structure; very hard, very firm, sticky; few fine roots; distinct clay films on ped faces; dark staining on ped faces; few fine black concretions; common fine limestone fragments; neutral; clear smooth boundary.

Cca—38 to 80 inches; reddish yellow (5YR 6/6) sandy clay loam, yellowish red (5YR 5/6) moist; common fine distinct red mottles; massive; hard, firm, sticky; about 20 percent by volume soft bodies of calcium carbonates; calcareous; moderately alkaline.

The solum ranges from 35 to 60 inches in thickness. Reaction of the soil ranges from slightly acid to moderately alkaline.

The A horizon is reddish brown or brown. The Bt horizon is red, yellowish red, or reddish brown sandy clay to clay. The Cca horizon is pink, light reddish brown, light brown, pink, or reddish yellow sandy clay loam or sandy clay.

Purves series

The Purves series consists of shallow, well drained soils that formed in material weathered from interbedded hard limestone and calcareous marl. Slopes range from 1 to 8 percent.

Typical pedon of Purves stony clay in an area of Purves association, undulating, in range; from the town of Cypress Mill, 2.0 miles northeast on county road, and 0.2 mile north:

A11—0 to 9 inches; very dark grayish brown (10YR 3/2) stony clay, very dark brown (10YR 2/2) moist; moderate medium angular blocky structure; hard, firm, sticky; many fine and medium roots; few angular limestone cobbles on surface and in the soil; calcareous; moderately alkaline; clear smooth boundary.

A12ca—9 to 16 inches; brown (10YR 4/3) cobbly clay, dark brown (10YR 3/3) moist; moderate fine subangular blocky structure; hard, firm, sticky; many fine roots; about 25 percent by volume angular limestone fragments and calcium carbonate concretions ranging from 1 to 4 inches across; calcareous; moderately alkaline; abrupt wavy boundary.

R—16 to 18 inches; indurated fractured limestone bedrock; fragments have secondary calcium carbonate coatings 1/8 to 1/4 inch thick.

The solum ranges from 10 to 19 inches in thickness. Limestone pebbles and cobbles are on 5 to 30 percent of the surface and make up 5 to 30 percent of the soil volume.

The A horizon is very dark grayish brown, dark grayish brown, brown, or dark brown clay, gravelly clay, stony clay, or cobbly clay. Clay content ranges from 40 to 50 percent of the fine earth.

Real series

The Real series consists of shallow, well drained soils that formed in material weathered from interbedded limestone and marl. Slopes range from 8 to 20 percent.

Typical pedon of Real gravelly clay loam in an area of Brackett-Real association, hilly, in range; from the intersection of U.S. Highway 290 and Spur 354 in Johnson City, 5.5 miles south on county road, 2 miles west on private road to ranchhouse, and 0.4 mile west:

A11—0 to 8 inches; dark grayish brown (10YR 4/2) gravelly clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky and moderate fine granular structure; hard, friable, sticky; many fine and common medium roots; about 20 percent by volume weakly to strongly cemented angular limestone fragments 1/8 to 1 inch in size; calcareous; moderately alkaline; clear wavy boundary.

A12ca—8 to 15 inches; dark grayish brown (10YR 4/2) very gravelly clay loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky and weak fine granular structure; hard, friable, sticky; many fine and common medium roots; about 60 percent by volume weakly cemented angular limestone fragments 1/2 inch to 3 inches in size that have 1/16 to 1/4 inch thick discontinuous coatings of secondary calcium carbonate; few cobbles and stones; calcareous; moderately alkaline; clear wavy boundary.

Cca—15 to 60 inches; pale yellow (2.5Y 7/4) cemented limestone and marl of silt loam texture; massive; few medium roots in seams; calcareous; moderately alkaline.

The solum ranges from 8 to 19 inches in thickness. Coarse limestone fragments from 1/8 inch to as much as 10 inches across make up from 35 to 70 percent by volume of the soil. Calcium carbonate equivalent is 55 to 70 percent.

The A horizon is dark grayish brown, dark brown, or very dark grayish brown loam or clay loam and their gravelly or cobbly analogs that have clay content of 27

which increase the passage of air and water through the soil. Earthworms burrow into the soil and add to this movement of air and water. The decayed roots provide food for bacteria. In places, small rodents, insects, and animals disturb the soil by burrowing and killing the vegetation.

Man should also be considered in the formation of soils. By plowing, grazing, and burning off the land, he has been both detrimental and beneficial to the soil. Plowing and cultivating the soil and overgrazing the range have increased runoff and accelerated erosion. Burning the rangeland and crop residues have decreased the number of organisms in the soil, depleted the organic matter, and killed the vegetation. Poor tillage methods have reduced water intake, and use of heavy machinery has compacted the soil. Man has been beneficial to the soil by controlling erosion, by irrigating, and by planting soil improving crops.

Topography

Topography influences soil genesis by its effect on drainage, erosion, plant cover, and soil temperature. The steep Brackett soil absorbs less moisture, is more eroded, and has less development than the more level, deeper Pedernales soil. The Pedernales soil receives additional water, and carbonates are leached to depths of below 28 inches. The gently sloping Luckenbach soil has a dark surface horizon which is at least one-third the thickness of the solum. Because soils on steep slopes facing north and northwest receive less direct sunlight and lose less moisture, they generally produce more vegetation and have darker surface horizons than those soils on slopes facing south and southeast.

Time

The time in which climate, living organisms, and topography have acted upon the parent material affects the kind of soil formed. Soils that have undergone a process of weathering for a long period of time and have parent material that weathers easily have a horizon of clay accumulation (an argillic horizon) and are nearing equilibrium with their environment. These soils are classified as Alfisols or Mollisols. Soils considered as young or immature do not have clearly defined horizons and are not in equilibrium with their environment. They are classified an Entisols.

Some soils have formed in a very short period of time. For example, the Oakalla soil, which has a very simple genesis, formed in recently deposited alluvial sediment. The Click soil, however, which formed from granite, may have taken as long as 60 million years to form, because the granite parent material resists weathering.

Geology

The rocks in Blanco and Burnet Counties range in date of origin from the Precambrian Era to the Cenozoic Era. The counties are on the eastern and southeastern edge of the Llano Uplift. This Precambrian Formation, resulting from an upward bulging of the earth, caused rocks to be brought to the surface that normally were covered by several miles of younger rocks. Geologic maps of the area show that these rocks, recrystallized as a result of high pressure and temperature during deep burial beneath other rocks, are perhaps a billion years old. Local melting produced granite and various other types of igneous rocks.

Rocks of the Precambrian Era in Blanco and Burnet Counties are Town Mountain Granite, the parent material of Click, Keese, and Voca soils; Packsaddle Schist, Katemcy and Ligon soils; and Coal Creek Separation, Renick soils.

Rocks of the Paleozoic Era are Hickory and Lion Mountain Sandstones, which produced the Hye, Nebgen, and Oben soils; and Cap Mountain Limestone and Ellenberger Limestone, the Eckert, Harper, and Spicewood soils.

Rocks of the Mesozoic Era are Edwards Limestone, the parent material of Anhalt, Eckrant, Hensley, Purves, and Tarpley soils; Glen Rose Limestone, the Bolar, Brackett, and Doss soils; and outcrop of the Travis Peak Formation.

The materials of the Cenozoic Era from which soils have formed are mainly of the Pleistocene and Recent Epochs. The Krum and Lewisville soils formed in old outwash from limestone; the Heaton soil, in old outwash from sandstone; and the Luckenbach and Pedernales soils, in ancient materials derived from mixed limestone and sandstone. The Oakalla and Weswood soils formed in recent alluvium from streams.

References

(1) American Association of State Highway [and Transportation] Officials. 1970. Standard specifications for highway materials and methods of sampling and testing. Ed. 10, 2 vol., illus.

(2) American Society for Testing and Materials. 1974. Method for classification of soils for engineering purposes. ASTM Stand. D 2487-69. *In* 1974 Annual Book of ASTM Standards, Part 19, 464 pp., illus.

(3) Texas Conservation Needs Committee. 1970. Conservation needs inventory. USDA - SCS publ., 297 pp., illus.

(4) United States Department of Agriculture. 1951. Soil survey manual. U.S. Dep. Agric. Handb. 18, 503 pp., illus. [Supplements replacing pp. 173–188 issued May 1962]

TABLES

TABLE 10.--WATER MANAGEMENT

[Some terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not evaluated]

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
1*---------- Aledo	Severe: depth to rock.	Severe: thin layer.	Depth to rock	Rooting depth, droughty.	Depth to rock, rooting depth.	Droughty, rooting depth.
2, 3---------- Anhalt	Severe: depth to rock.	Moderate: depth to rock, compressible.	Percs slowly, depth to rock.	Percs slowly, droughty.	Percs slowly, depth to rock.	Percs slowly, droughty.
4, 5---------- Bolar	Severe: seepage.	Moderate: thin layer.	Depth to rock	Excess lime----	Favorable------	Favorable.
6*---------- Brackett	Severe: seepage.	Severe: thin layer.	Depth to rock	Droughty, excess lime, rooting depth.	Depth to rock, rooting depth.	Droughty, rooting depth.
7*:						
Brackett---------	Severe: seepage.	Severe: thin layer.	Depth to rock	Droughty, excess lime, rooting depth.	Depth to rock, rooting depth.	Droughty, rooting depth.
Real----------	Severe: depth to rock, seepage.	Severe: thin layer, seepage.	Not needed-----	Droughty, excess lime, seepage.	Not needed-----	Not needed.
8---------- Click	Severe: seepage.	Moderate: unstable fill, piping.	Not needed-----	Droughty, fast intake.	Not needed-----	Droughty.
9---------- Doss	Severe: depth to rock, seepage.	Moderate: low strength.	Depth to rock	Droughty, excess lime.	Depth to rock	Droughty, rooting depth.
10*:						
Eckert----------	Severe: depth to rock.	Severe: depth to rock, large stones.	Depth to rock	Droughty, rooting depth.	Depth to rock, large stones.	Not needed.
Rock outcrop.						
11*---------- Eckrant	Severe: depth to rock.	Severe: thin layer, large stones.	Not needed-----	Rooting depth, droughty.	Depth to rock, large stones.	Rooting depth.
12*:						
Eckrant----------	Severe: depth to rock.	Severe: thin layer, large stones.	Not needed-----	Rooting depth, droughty.	Depth to rock, large stones.	Rooting depth.
Rock outcrop.						
13*:						
Harper----------	Severe: depth to rock.	Severe: thin layer, large stones.	Not needed-----	Rooting depth	Large stones, rooting depth.	Large stones, rooting depth.
Rock outcrop.						
14---------- Heaton	Moderate: seepage.	Moderate: erodes easily.	Not needed-----	Fast intake, soil blowing.	Piping, erodes easily.	Droughty, erodes easily.
15, 16, 17*------- Hensley	Severe: depth to rock.	Severe: thin layer.	Not needed-----	Rooting depth, slow intake.	Depth to rock	Percs slowly, rooting depth.
18, 19---------- Houston Black	Slight---------	Moderate: compressible, unstable fill.	Percs slowly---	Slow intake----	Percs slowly---	Percs slowly.

See footnote at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
20---------- Hye	Severe: depth to rock.	Moderate: depth to rock.	Not needed-----	Slope, rooting depth.	Complex slope, depth to rock.	Depth to rock.
21---------- Karnes	Severe: seepage.	Slight---------	Not needed-----	Fast intake, excess lime.	Favorable------	Favorable.
22---------- Katemcy	Severe: depth to rock.	Moderate: thin layer, compressible.	Depth to rock, percs slowly.	Slow intake, slope.	Depth to rock, percs slowly.	Percs slowly.
23*:						
Keese----------	Severe: depth to rock, seepage.	Severe: depth to rock.	Depth to rock	Droughty, slope.	Depth to rock, slope.	Droughty, slope.
Rock outcrop.						
24, 25---------- Krum	Moderate: seepage.	Moderate: hard to pack.	Not needed-----	Slow intake----	Percs slowly, erodes easily.	Percs slowly, erodes easily.
26, 27---------- Lewisville	Moderate: seepage.	Moderate: unstable fill.	Favorable------	Favorable------	Favorable------	Favorable.
28*:						
Ligon----------	Severe: depth to rock, seepage.	Severe: thin layer.	Depth to rock	Droughty, rooting depth.	Depth to rock	Droughty, rooting depth.
Rock outcrop.						
29---------- Luckenbach	Moderate: seepage.	Moderate: compressible.	Not needed-----	Favorable------	Favorable------	Favorable.
30*:						
Nebgen----------	Severe: depth to rock.	Moderate: unstable fill, piping.	Not needed-----	Droughty, rooting depth.	Rooting depth, depth to rock, large stones.	Droughty, rooting depth, slope.
Oben----------	Severe: depth to rock.	Severe: thin layer.	Depth to rock	Rooting depth, droughty.	Depth to rock	Rooting depth, droughty.
Rock outcrop.						
31, 32---------- Oakalla	Moderate: seepage.	Moderate: compressible.	Not needed-----	Floods---------	Floods---------	Favorable.
33---------- Oben	Severe: depth to rock.	Severe: thin layer.	Depth to rock	Rooting depth, droughty.	Depth to rock	Rooting depth, droughty.
34*---------- Owens	Slight---------	Moderate: compressible.	Not needed-----	Droughty, percs slowly.	Slope, rooting depth.	Droughty, erodes easily.
35, 36---------- Pedernales	Moderate: seepage.	Moderate: compressible.	Percs slowly---	Percs slowly---	Favorable------	Favorable.
37, 38*---------- Purves	Severe: depth to rock.	Severe: thin layer.	Depth to rock	Rooting depth, droughty.	Depth to rock, rooting depth.	Droughty, rooting depth.
39---------- Renick	Severe: depth to rock.	Severe: depth to rock.	Not needed-----	Droughty-------	Depth to rock	Droughty.
40*:						
Spicewood--------	Severe: depth to rock.	Moderate: depth to rock.	Not needed-----	Slow intake, droughty.	Depth to rock	Depth to rock.
Rock outcrop.						
41---------- Tarpley	Severe: depth to rock.	Severe: thin layer.	Not needed-----	Rooting depth, percs slowly.	Depth to rock	Rooting depth.

See footnote at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
42*---------- Tarpley	Severe: depth to rock.	Severe: thin layer.	Not needed-----	Rooting depth, percs slowly.	Depth to rock, large stones.	Rooting depth, large stones.
43---------- Throck variant	Moderate: seepage.	Moderate: compressible.	Not needed-----	Complex slope, droughty.	Favorable------	Favorable.
44*---------- Voca	Moderate: depth to rock, seepage.	Moderate: thin layer.	Not needed-----	Slow intake, percs slowly, slope.	Percs slowly---	Droughty, percs slowly.
45---------- Weswood	Moderate: seepage.	Moderate: piping, erodes easily.	Not needed-----	Favorable------	Favorable------	Favorable.

* See description of the map unit for composition and behavior characteristics of the map unit.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS

[The symbol < means less than; > means more than. Absence of an entry indicates that data were not estimated]

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
1*---------- Aledo	0-4	Gravelly clay loam.	CL, GC, GM, SC	A-4, A-6	0-20	65-95	60-90	55-90	40-70	30-40	10-20
	4-13	Very gravelly clay loam.	GC, GM, SC	A-2-4, A-2-6	5-30	35-55	30-50	25-50	15-35	30-40	10-20
	13-16	Weathered bedrock.	---	---	---	---	---	---	---	---	---
2, 3---------- Anhalt	0-29	Clay----------	CH	A-7-6	0-10	85-100	85-100	85-100	80-100	51-88	32-62
	29-44	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
4, 5---------- Bolar	0-13	Clay loam-------	CL, SC	A-6, A-7, A-4	0-5	75-100	75-100	70-98	40-80	25-42	9-25
	13-38	Clay loam, silty clay loam.	CL, SC	A-6, A-7	0-10	75-95	75-95	70-90	40-75	25-42	11-25
	38-39	Weathered bedrock.	---	---	---	---	---	---	---	---	---
6*---------- Brackett	0-14	Clay loam-------	CL, SC	A-6, A-4	0-20	70-100	60-100	55-95	40-85	28-40	10-20
	14-30	Weathered bedrock.	---	---	---	---	---	---	---	---	---
7*:											
Brackett----------	0-19	Clay loam-------	CL, SC	A-6, A-4	0-20	70-100	60-100	55-95	40-85	28-40	10-20
	19-30	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Real----------	0-15	Gravelly clay loam, very gravelly clay loam.	GC, SC, GP-GM, SP-SM	A-2-6, A-2-4	1-10	25-75	10-50	10-45	10-35	25-35	8-15
	15-60	Variable, weathered bedrock.	---	---	---	---	---	---	---	---	---
8---------- Click	0-14	Gravelly sandy loam.	SM, SM-SC	A-1, A-2	0-5	75-95	45-65	20-50	15-35	<23	NP-7
	14-54	Gravelly sandy loam, very gravelly sandy loam.	SC, GC, SM-SC, GM-GC	A-1, A-2	0-5	50-90	27-50	20-50	15-35	18-28	4-10
9---------- Doss	0-17	Silty clay------	CL, CH	A-7-6	0-20	90-100	85-100	80-100	80-95	41-55	20-33
	17-30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
10*:											
Eckert----------	0-7	Stony loam------	ML, CL-ML	A-4	25-70	75-95	75-95	75-95	60-80	<30	NP-7
	7-8	Indurated, unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											
11*---------- Eckrant	0-11	Very cobbly clay	GC, SC	A-7-6, A-2-7	25-75	45-80	40-75	35-55	30-50	54-74	31-49
	11-12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
12*:											
Eckrant----------	0-11	Very cobbly clay	GC, SC	A-7-6, A-2-7	25-75	45-80	40-75	35-55	30-50	54-74	31-49
	11-12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
12*:											
Rock outcrop.											
13*:											
Harper	0-18	Clay	CH	A-7-6	0-10	90-100	85-100	85-100	75-95	55-75	33-49
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											
14 Heaton	0-22	Loamy fine sand	SM	A-2-4	0	95-100	95-100	70-90	15-30	<25	NP-3
	22-80	Sandy clay loam	SC, SM-SC	A-2-4, A-4, A-6, A-2-6	0	98-100	95-100	75-90	25-45	20-35	4-15
15, 16 Hensley	0-5	Loam	CL, CL-ML	A-6, A-4	0-2	80-100	75-100	70-100	60-85	20-40	5-20
	5-18	Clay, clay loam	CL, CH	A-6, A-7	0-10	80-100	75-100	70-100	60-95	35-55	18-35
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
17* Hensley	0-5	Stony loam	CL, SC, GC, GM-GC	A-6, A-4	8-25	65-95	60-95	55-95	36-80	20-40	5-20
	5-18	Clay, clay loam	CL, CH	A-6, A-7	0-10	80-100	75-100	70-100	60-95	35-55	18-35
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
18, 19 Houston Black	0-80	Clay	CH	A-7-6	0	95-100	95-100	95-100	85-100	58-90	34-65
20 Hye	0-18	Fine sandy loam	SM-SC, SC	A-2, A-4	0-5	75-100	70-100	70-95	25-50	20-30	4-10
	18-36	Sandy clay loam, fine sandy loam.	SC, CL	A-4, A-6, A-2-4, A-2-6	0-5	75-100	70-100	70-98	33-55	27-40	8-21
	36-40	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
21 Karnes	0-49	Loam	SC, CL, CL-ML, SM-SC	A-4, A-6, A-2-4, A-2-6	0-5	85-100	75-100	50-100	30-65	20-35	4-15
	49-72	Loam, fine sandy loam, clay loam.	SC, CL, CL-ML, SM-SC	A-4, A-6, A-2-4, A-2-6	0-5	85-100	75-100	45-100	25-65	20-35	4-15
22 Katemcy	0-9	Loam	CL, CL-ML	A-4, A-6	0-2	85-100	75-99	70-91	51-75	20-35	4-15
	9-28	Clay, clay loam	CL, CH, SC	A-7-6	0-2	85-100	74-97	53-92	39-85	41-56	20-30
	28-35	Gravelly clay loam, gravelly clay.	SC	A-7-6	0-25	75-95	65-80	45-65	35-50	36-50	15-28
	35-44	Weathered bedrock.	---	---	---	---	---	---	---	---	---
23*:											
Keese	0-17	Gravelly sandy loam.	SW-SM, SM, SM-SC, SP-SM	A-1, A-2-4	0-5	70-90	55-85	30-45	10-20	<25	NP-7
	17-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											

See footnote at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
24, 25---------- Krum	0-13	Clay----------	CH	A-7-6	0	95-100	85-100	85-100	85-95	51-65	25-42
	13-39	Silty clay, clay	CH	A-7-6	0	95-100	85-100	80-100	65-95	51-74	28-50
	39-72	Silty clay loam, silty clay, clay.	CH, CL	A-7-6	0	85-100	75-100	70-95	65-95	48-60	28-38
26, 27---------- Lewisville	0-18	Clay loam-------	CL, CH	A-7	0	100	99-100	82-99	80-95	41-59	20-36
	18-58	Silty clay, clay loam.	CL, CH	A-7	0	99-100	98-100	73-99	72-95	48-60	25-36
	58-63	Silty clay, clay loam.	CL, CH, SC	A-6, A-7	0	83-100	65-99	56-98	41-95	30-55	12-34
28*:											
Ligon----------	0-4	Clay loam-------	CL, SC	A-6	0-3	80-100	65-100	60-80	45-80	35-40	15-20
	4-15	Clay loam-------	CL, SC	A-6, A-7-6	0-3	80-95	65-95	60-85	48-85	38-44	16-22
	15-22	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											
29---------- Luckenbach	0-17	Clay loam-------	CL	A-6	0-3	95-100	95-100	75-95	55-65	29-40	14-25
	17-36	Clay loam, clay	CL, CH	A-6, A-7	0-3	90-100	80-100	80-100	60-85	40-55	22-35
	36-80	Clay loam, clay	CL, SC	A-6, A-7	0-5	70-100	60-95	45-95	36-80	35-45	20-30
30*:											
Nebgen----------	0-14	Fine sandy loam	SC, CL, SM, ML	A-4, A-6	2-25	75-100	75-100	70-85	40-55	20-32	4-13
	14-23	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Oben----------	0-7	Stony sandy loam	SC, CL, SM-SC, CL-ML	A-4	5-20	90-100	90-100	70-85	40-55	<25	NP-10
	7-15	Stony sandy loam, fine sandy loam, sandy clay loam.	SC, CL	A-4, A-6	0-20	90-100	90-100	80-95	45-75	26-36	8-15
	15-24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											
31---------- Oakalla	0-60	Loam----------	CL	A-6, A-7-6	0-2	85-100	80-100	70-100	65-95	35-4=	1>=25
32---------- Oakalla	0-60	Silty clay loam	CL	A-6, A-7-6	0-2	85-100	80-100	70-100	65-95	35-45	16-25
33---------- Oben	0-6	Fine sandy loam	SC, CL, SM-SC, CL-ML	A-4	0-5	90-100	90-100	70-85	40-55	<25	NP-10
	6-19	Fine sandy loam, sandy clay loam.	SC, CL	A-4, A-6	0-5	90-100	90-100	80-95	45-75	26-36	8-15
	19-26	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
34*---------- Owens	0-4	Clay----------	CL, CH	A-7-6	0-5	95-100	95-100	85-100	75-95	45-60	22-32
	4-18	Clay, clay loam	CL, CH	A-7-6	0-5	95-100	90-100	85-100	75-95	45-60	22-32
	18-25	Shaly clay------	CL, CH	A-6, A-7-6	0-5	90-100	85-100	80-100	55-95	40-55	25-35

See footnote at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
35, 36---------- Pedernales	0-11	Fine sandy loam	SM, ML, CL-ML, SM-SC	A-4, A-2-4	0	95-100	90-100	75-100	25-55	<25	NP-7
	11-38	Sandy clay, clay	CH, CL, SC	A-7, A-6	0	90-100	90-100	80-100	45-75	38-60	20-36
	38-80	Sandy clay loam, clay loam, sandy clay.	SC, CL, CH	A-6, A-7	0-5	90-100	90-100	80-100	36-75	32-55	13-30
37---------- Purves	0-9	Gravelly clay---	CH, GC, SC	A-7-6	5-25	55-95	55-95	45-95	36-90	51-65	30-40
	9-16	Gravelly clay, very gravelly clay, stony clay.	GC, CH, SC	A-7-6	5-35	55-95	55-95	45-90	36-65	51-65	30-40
	16-18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
38*---------- Purves	0-9	Stony clay------	CH, GC, SC	A-7-6	5-25	55-95	55-95	45-95	36-90	51-65	30-40
	9-16	Gravelly clay, very gravelly clay, stony clay.	GC, CH, SC	A-7-6	5-35	55-95	55-95	45-90	36-65	51-65	30-40
	16-18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
39---------- Renick	0-18	Clay loam-------	CH	A-7-6	2-20	80-90	80-90	70-80	50-75	51-60	30-36
	18-24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
40*:											
Spicewood---------	0-8	Cobbly clay loam	GC, SC, CL	A-2-7, A-7-6	10-30	50-90	40-70	40-65	25-65	41-50	20-28
	8-22	Very cobbly clay	GC	A-2-7, A-7-6	5-50	45-75	40-65	35-60	25-50	55-75	32-48
	22-38	Clay----------	CH	A-7-6	0-5	90-100	80-95	80-95	75-90	55-75	32-48
	38-40	Weathered bedrock.	---	---	---	---	---	---	---	---	---
	40-41	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											
41---------- Tarpley	0-8	Clay----------	CL, CH	A-7	0-3	90-100	90-100	80-95	70-90	41-60	20-38
	8-15	Clay----------	CH	A-7	0	90-100	90-100	90-100	65-98	70-90	45-60
	15-16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
42*---------- Tarpley	0-8	Stony clay------	CL, CH	A-7	10-30	85-100	85-98	75-95	65-90	41-60	20-38
	8-15	Clay, cobbly clay.	CH	A-7	0-15	85-100	85-100	85-100	60-95	70-90	45-60
	15-16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
43---------- Throck variant	0-8	Silty clay loam	CL	A-6, A-7-6	0-2	85-100	80-99	75-99	60-90	30-45	14-28
	8-41	Silty clay loam	CL	A-6, A-7-6	0-2	80-100	80-100	75-99	70-95	33-48	18-30
	41-80	Sandy clay loam, silty clay loam, shaly clay.	CL	A-6, A-7-6	0	90-100	90-100	85-100	70-95	30-50	14-30

See footnote at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
				O		4	10	40	200		
	In				Pct					Pct	
44*---------- Voca	0-8	Gravelly sandy loam.	SM, SM-SC	A-2-4, A-1-B	0-5	70-95	50-95	30-50	20-35	<25	NP-7
	8-28	Gravelly clay, gravelly sandy clay.	SC, GC	A-2-7, A-7-6	0-8	55-85	50-70	30-60	25-50	51-65	27-40
	28-48	Very gravelly clay, very gravelly sandy clay, gravelly clay.	GC, SC	A-2-7, A-7-6	0-10	25-85	20-65	15-50	13-45	45-60	25-35
	48-84	Weathered bedrock.	---	---	---	---	---	---	---	---	---
45---------- Weswood	0-63	Silt loam-------	CL, CL-ML	A-4, A-6	0	100	100	95-100	70-95	20-35	4-15

* See description of the map unit for composition and behavior characteristics of the map unit.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS

[The symbol < means less than; > means more than. Entries under "Erosion factors--T" apply to the entire profile. Absence of an entry indicates that data were not available or were not estimated]

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Shrink-swell potential	Erosion factors	
						K	T
	In	In/hr	In/in	pH			
1*---------- Aledo	0-4	0.6-2.0	0.07-0.18	7.9-8.4	Moderate-------	0.32	1
	4-13	0.6-2.0	0.05-0.12	7.9-8.4	Low----------	0.10	
	13-16	---	---	---	----------	---	
2, 3---------- Anhalt	0-29	<0.06	0.15-0.18	6.1-8.4	Very high------	0.32	2
	29-44	---	---	---	----------	---	
4, 5---------- Bolar	0-13	0.6-2.0	0.11-0.20	7.9-8.4	Moderate-------	0.32	2
	13-38	0.6-2.0	0.11-0.20	7.9-8.4	Moderate-------	0.17	
	38-39	---	---	---	----------	---	
6*---------- Brackett	0-14	0.2-0.6	0.10-0.20	7.9-8.4	Low----------	0.32	2
	14-30	---	---	---	----------	---	
7*:							
Brackett--------	0-19	0.2-0.6	0.10-0.20	7.9-8.4	Low----------	0.32	2
	19-30	---	---	---	----------	---	
Real----------	0-15	0.6-2.0	0.05-0.10	7.9-8.4	Low----------	0.10	1
	15-60	---	---	---	----------	---	
8---------- Click	0-14	6.0-20	0.03-0.08	6.1-7.3	Low----------	0.15	4
	14-54	6.0-20	0.04-0.09	6.1-7.3	Low----------	0.10	
9---------- Doss	0-17	0.2-0.6	0.15-0.20	7.9-8.4	Moderate-------	0.24	1
	17-30	---	---	---	----------	---	
10*:							
Eckert----------	0-7	0.6-2.0	0.10-0.15	6.6-8.4	Low----------	0.10	1
	7-8	---	---	---	----------	---	
Rock outcrop.							
11*---------- Eckrant	0-11	0.2-0.6	0.05-0.12	6.6-8.4	Moderate-------	0.10	1
	11-12	---	---	---	----------	---	
12*:							
Eckrant---------	0-11	0.2-0.6	0.05-0.12	6.6-8.4	Moderate-------	0.10	1
	11-12	---	---	---	----------	---	
Rock outcrop.							
13*:							
Harper----------	0-18	0.2-0.6	0.15-0.20	7.4-8.4	High----------	0.32	1
	18-19	---	---	---	----------	---	
Rock outcrop.							
14---------- Heaton	0-22	2.0-6.0	0.05-0.09	5.6-7.3	Very low-------	0.17	5
	22-80	0.6-2.0	0.14-0.16	5.6-7.3	Low----------	0.24	
15, 16---------- Hensley	0-5	0.2-0.6	0.12-0.20	6.1-7.8	Low----------	0.32	1
	5-18	0.06-0.2	0.10-0.20	6.6-8.4	Moderate-------	0.32	
17*---------- Hensley	0-5	0.2-0.6	0.10-0.18	6.1-7.8	Low----------	0.32	1
	5-18	0.06-0.2	0.10-0.20	6.6-8.4	Moderate-------	0.32	
18, 19---------- Houston Black	0-80	<0.06	0.15-0.20	7.4-8.4	Very high------	0.32	5
20---------- Hye	0-18	2.0-6.0	0.11-0.15	6.1-7.3	Low----------	0.24	3
	18-36	0.6-2.0	0.12-0.17	6.1-7.3	Low----------	0.32	
	36-40	---	---	---	----------	---	

See footnote at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Shrink-swell potential	Erosion factors	
						K	T
	In	In/hr	In/in	pH			
21---------- Karnes	0-49	2.0-6.0	0.10-0.15	7.9-8.4	Low----------	0.28	5
	49-72	2.0-6.0	0.08-0.15	7.9-8.4	Low----------	0.28	
22---------- Katemcy	0-9	0.6-2.0	0.15-0.20	6.1-7.8	Low----------	0.32	2
	9-35	0.06-0.2	0.14-0.20	6.1-7.8	Moderate-------	0.32	
	35-44	---	---	---	----------	---	
23*:							
Keese----------	0-17	2.0-6.0	0.05-0.10	5.6-6.5	Low----------	0.10	1
	17-20	---	---	---	----------	---	
Rock outcrop.							
24, 25---------- Krum	0-13	0.2-0.6	0.15-0.20	7.4-8.4	High----------	0.32	5
	13-39	0.2-0.6	0.14-0.20	7.9-8.4	High----------	0.32	
	39-72	0.2-0.6	0.14-0.20	7.9-8.4	High----------	0.32	
26, 27---------- Lewisville	0-18	0.6-2.0	0.16-0.20	7.9-8.4	High----------	0.32	4
	18-58	0.6-2.0	0.14-0.18	7.9-8.4	High----------	0.37	
	58-63	0.6-2.0	0.14-0.18	7.9-8.4	High----------	0.37	
28*:							
Ligon----------	0-4	0.2-0.6	0.10-0.15	6.1-7.8	Moderate-------	0.32	1
	4-15	0.2-0.6	0.10-0.15	6.1-7.8	Moderate-------	0.32	
	15-22	---	---	---	----------	---	
Rock outcrop.							
29---------- Luckenbach	0-17	0.6-2.0	0.15-0.18	6.1-7.8	Low----------	0.32	5
	17-36	0.2-0.6	0.13-0.18	7.4-8.4	Moderate-------	0.32	
	36-80	0.2-0.6	0.10-0.15	7.9-8.4	Moderate-------	0.28	
30*:							
Nebgen----------	0-14	2.0-6.0	0.09-0.14	6.1-7.3	Low----------	0.24	1
	14-23	---	---	---	----------	---	
Oben----------	0-7	0.6-2.0	0.08-0.14	6.1-7.3	Low----------	0.24	1
	7-15	0.6-2.0	0.08-0.16	6.1-7.3	Low----------	0.32	
	15-24	---	---	---	----------	---	
Rock outcrop.							
31, 32---------- Oakalla	0-60	0.6-2.0	0.12-0.19	7.9-8.4	Moderate-------	0.32	5
33---------- Oben	0-6	0.6-2.0	0.10-0.16	6.1-7.3	Low----------	0.24	1
	6-19	0.6-2.0	0.11-0.17	6.1-7.3	Low----------	0.32	
	19-26	---	---	---	----------	---	
34*---------- Owens	0-4	<0.06	0.13-0.17	7.9-8.4	High----------	0.32	1
	4-18	<0.06	0.13-0.17	7.9-8.4	High----------	0.32	
	18-25	<0.06	0.03-0.08	7.9-8.4	High----------	0.37	
35, 36---------- Pedernales	0-11	0.6-2.0	0.12-0.17	6.1-7.8	Low----------	0.32	5
	11-38	0.2-0.6	0.15-0.20	6.1-7.8	Moderate-------	0.28	
	38-80	0.2-0.6	0.15-0.20	7.9-8.4	Moderate-------	0.28	
37, 38*---------- Purves	0-9	0.2-0.6	0.08-0.15	7.9-8.4	High----------	0.24	1
	9-16	0.2-0.6	0.08-0.15	7.9-8.4	High----------	0.24	
	16-18	---	---	---	----------	---	
39---------- Renick	0-18	0.2-0.6	0.15-0.20	6.1-7.8	High----------	0.15	1
	18-24	---	---	---	----------	---	

See footnote at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Shrink-swell potential	Erosion factors	
						K	T
	In	In/hr	In/in	pH			
40*:							
Spicewood	0-8	0.2-0.6	0.08-0.15	6.1-7.3	Low	0.10	2
	8-22	0.06-0.2	0.05-0.10	6.1-7.3	Moderate	0.10	
	22-38	0.06-0.2	0.10-0.18	6.1-7.3	High	0.32	
	38-40	---	---	---	---	---	
	40-41	---	---	---	---	---	
Rock outcrop.							
41 Tarpley	0-8	0.2-0.6	0.15-0.20	6.1-7.8	High	0.32	1
	8-15	0.06-0.2	0.12-0.18	6.1-7.8	Very high	0.32	
	15-16	---	---	---	---	---	
42* Tarpley	0-8	0.2-0.6	0.10-0.16	6.1-7.8	High	0.32	1
	8-15	0.06-0.2	0.10-0.18	6.1-7.8	Very high	0.32	
	15-16	---	---	---	---	---	
43 Throck variant	0-8	0.2-0.6	0.12-0.20	7.9-8.4	Moderate	0.32	3
	8-41	0.06-0.2	0.12-0.20	7.9-8.4	Moderate	0.32	
	41-80	0.06-0.2	0.10-0.18	7.9-8.4	Moderate	0.32	
44* Voca	0-8	2.0-6.0	0.08-0.12	6.1-7.8	Low	0.37	3
	8-28	0.06-0.2	0.10-0.15	5.6-7.3	Moderate	0.28	
	28-48	0.06-0.2	0.05-0.13	5.6-7.3	Low	0.28	
	48-84	---	---	---	---	---	
45 Weswood	0-63	0.6-2.0	0.15-0.20	7.9-8.4	Low	0.43	5

* See description of the map unit for composition and behavior characteristics of the map unit.

TABLE 15.--SOIL AND WATER FEATURES

[The definitions in the Glossary explain such terms as "rare," "brief," and "very brief." The symbol < means less than; > means more than. Absence of an entry indicates that the feature is not a concern]

Soil name and map symbol	Hydrologic group	Flooding			Bedrock		Risk of corrosion	
		Frequency	Duration	Months	Depth	Hardness	Uncoated steel	Concrete
					In			
1*: Aledo	C	None	---	---	8-20	Hard	Moderate	Low.
2, 3: Anhalt	D	None	---	---	20-40	Hard	High	Low.
4, 5: Bolar	C	None	---	---	20-40	Rippable	High	Low.
6*: Brackett	C	None	---	---	10-20	Rippable	High	Low.
7*:								
Brackett	C	None	---	---	10-20	Rippable	High	Low.
Real	D	None	---	---	8-20	Rippable	High	Low.
8: Click	A	None	---	---	40-60	Rippable	Low	Low.
9: Doss	C	None	---	---	>60	---	High	Low.
10*:								
Eckert	D	None	---	---	4-14	Hard	Low	Low.
Rock outcrop.								
11*: Eckrant	D	None	---	---	8-20	Hard	High	Low.
12*:								
Eckrant	D	None	---	---	8-20	Hard	High	Low.
Rock outcrop.								
13*:								
Harper	D	None	---	---	11-20	Hard	High	Low.
Rock outcrop.								
14: Heaton	A	None	---	---	>60	---	Moderate	Low.
15, 16, 17*: Hensley	D	None	---	---	10-20	Hard	High	Low.
18, 19: Houston Black	D	None	---	---	>60	---	High	Low.
20: Hye	B	None	---	---	20-40	Hard	Moderate	Low.
21: Karnes	B	None	---	---	>60	---	Moderate	Low.
22: Katemcy	C	None	---	---	20-40	Rippable	High	Low.
23*:								
Keese	D	None	---	---	11-20	Hard	Low	Low.
Rock outcrop.								

See footnote at end of table.

TABLE 15.--SOIL AND WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			Bedrock		Risk of corrosion	
		Frequency	Duration	Months	Depth	Hardness	Uncoated steel	Concrete
					In			
24, 25---------- Krum	D	None--------	---	---	>60	---	High-----	Low.
26, 27---------- Lewisville	B	None--------	---	---	>60	---	High-----	Low.
28*:								
Ligon----------	D	None--------	---	---	12-20	Rippable	Moderate	Low.
Rock outcrop.								
29---------- Luckenbach	C	None--------	---	---	>60	---	Moderate	Low.
30*:								
Nebgen----------	D	None--------	---	---	4-14	Rippable	Low------	Low.
Oben----------	C	None--------	---	---	9-20	Rippable	Low------	Low.
Rock outcrop.								
31, 32---------- Oakalla	B	Common------	Very brief to brief.	May-Sep	>60	---	Moderate	Low.
33---------- Oben	C	None--------	---	---	9-20	Rippable	Low------	Low.
34*---------- Owens	D	None--------	---	---	10-20	Rippable	High-----	Low.
35, 36---------- Pedernales	C	None--------	---	---	>60	---	High-----	Low.
37, 38*---------- Purves	D	None--------	---	---	8-20	Hard	High-----	Low.
39---------- Renick	D	None--------	---	---	2-20	Hard	High-----	Low.
40*:								
Spicewood--------	C	None--------	---	---	25-40	Hard	High-----	Low.
Rock outcrop.								
41, 42*---------- Tarpley	D	None--------	---	---	13-20	Hard	High-----	Low.
43---------- Throck variant	C	None--------	---	---	>60	---	High-----	Low.
44*---------- Voca	C	None--------	---	---	40-60	Rippable	High-----	Low.
45---------- Weswood	B	Rare--------	Brief-----	Mar-Sep	>60	---	High-----	Low.

* See description of the map unit for composition and behavior characteristics of the map unit.

TABLE 16.--ENGINEERING TEST DATA

[Dashes indicate data were not available]

Soil name, report number, horizon, and depth in inches	Classification		Grain size distribution[1]										Liquid limit[2]	Plasticity index[2]	Moisture density		Shrinkage		
			Larger than 3 inches	Percentage passing sieve						Percentage smaller than--					Max. dry density	Optimum moisture	Limit	Linear	Ratio
	AASHTO	Unified		5/8 inch	3/8 inch	No. 4	No. 10	No. 40	No. 200	.02 mm	.005 mm	.002 mm							
			Pct										Pct		Lb/ft	Pct	Pct	Pct	Pct
Anhalt clay:[3] (S72TX-016-001)																			
Ap------ 0 to 6	A-7-6(35)	CH	0	100	100	100	100	100	97	--	55	46	54	32	--	--	11.0	18.8	2.0
A1------ 6 to 15	A-7-6(41)	CH	0	100	100	100	100	100	97	--	63	55	59	38	--	--	11.0	20.4	2.0
B2------ 15 to 29	A-7-6(39)	CH	0	100	100	100	100	99	96	--	60	53	59	36	--	--	11.0	20.3	2.0
Hye fsl:[4] (S72TX-016-003)																			
A1------ 0 to 12	A-2-4(00)	SM-SC	0	100	100	99	97	93	27	--	7	6	20	4	--	--	17.0	1.8	1.7
B1------ 12 to 18	A-2-4(00)	SM-SC	0	100	100	99	97	93	32	--	13	10	20	5	--	--	16.0	2.8	1.8
B21t---- 18 to 26	A-2-6(01)	SC	0	100	87	84	81	77	33	--	18	16	27	13	--	--	16.0	6.1	1.8
B22t---- 26 to 36	A-6 (08)	CL	0	100	100	100	99	98	54	--	35	33	38	21	--	--	17.0	10.2	1.8
Katemcy l:[5] (S72TX-016-002)																			
A1------ 0 to 9	A-4 (04)	CL	0	100	100	98	97	91	62	--	22	16	26	10	--	--	15.0	6.2	1.8
B2t----- 9 to 28	A-7-6(21)	CL	0	100	99	98	97	92	75	--	46	31	49	29	--	--	14.0	15.8	1.9
B3------ 28 to 35	A-7-6(05)	SC	15	100	94	88	74	53	39	--	19	16	44	26	--	--	14.0	13.9	1.9
Pedernales fsl:[6] (S72TX-016-005)																			
A1------ 0 to 11	A-2-4(00)	SM-SC	0	100	100	100	99	79	25	--	7	6	18	4	--	--	14.0	2.5	1.8
B21t---- 11 to 17	A-7-6(16)	CH	0	100	100	100	98	83	56	--	44	41	57	35	--	--	13.0	18.4	1.9
Cca----- 38 to 80	A-7-6(11)	CL	0	100	100	100	99	86	53	--	33	31	43	28	--	--	12.0	14.8	2.0
Throck variant sicl:[7] (S72TX-027-001)																			
Ap------ 0 to 8	A-6 (11)	CL	0	100	100	99	98	96	85	--	35	26	30	15	--	--	14.0	8.5	1.9
B22----- 17 to 32	A-6 (20)	CL	0	100	100	100	100	99	93	--	55	42	39	21	--	--	14.0	12.3	1.9
B23ca--- 32 to 41	A-6 (13)	CL	0	100	99	99	98	93	81	--	42	33	33	18	--	--	14.0	10.0	1.9

See footnotes at end of table.

TABLE 16.--ENGINEERING TEST DATA--Continued

Soil name, report number, horizon, and depth in inches	Classification		Grain size distribution[1]										Liquid limit[2]	Plasticity index[2]	Moisture density		Shrinkage		
			Larger than 3 inches	Percentage passing sieve						Percentage smaller than--					Max. dry density	Optimum moisture	Limit	Linear	Ratio
	AASHTO	Unified		5/8 inch	3/8 inch	No. 4	No. 10	No. 40	No. 200	.02 mm	.005 mm	.002 mm							
			Pct										Pct		Lb/ft	Pct	Pct	Pct	Pct
Voca gr-sl:[8] (S72TX-016-004)																			
A1------ 0 to 8	A-1-B(00)	SM-SC	5	100	99	93	77	49	22	--	6	3	22	5	--	--	16.0	3.3	1.8
B21t---- 8 to 19	A-2-7(03)	SC	8	100	97	81	59	32	26	--	20	19	59	35	--	--	13.0	19.2	1.9
B22t---- 19 to 28	A-2-7(05)	SC	10	100	98	85	67	46	35	--	27	25	64	37	--	--	17.0	19.0	1.8
Cr&Bt--- 28 to 42	A-2-7(05)	SC	10	100	97	82	61	37	33	--	17	16	58	35	--	--	17.0	17.0	1.8

[1]For soil materials larger than 3/8 inch, square mesh wire sieves were used that are slightly larger than equivalent round sieves, but these differences do not seriously affect the data.

[2]Liquid limit and plastic index values were determined by the AASHTO-89 and AASHTO-90 methods except that soil was added to water.

[3]Anhalt clay:
5 miles east of Blanco on Ranch Road 165, 1,600 feet east on improved road, 1/4 mile south and 450 feet east of road.

[4]Hye fine sandy loam:
6 miles northwest of Round Mountain on Ranch Road 962, 0.7 mile southwest on improved county road, and 150 feet southeast of road.

[5]Katemcy loam:
8 miles northwest of Round Mountain on Ranch Road 962, 4 miles west on improved county road, and 450 feet southwest of road.

[6]Pedernales fine sandy loam:
6 miles northwest of Round Mountain on Ranch Road 962, 2 miles southwest on improved county road, and 100 feet south of road.

[7]Throck variant silty clay loam:
4 miles east of Marble Falls on Ranch Road 1431, and 60 feet north into cultivated field.

[8]Voca gravelly sandy loam:
3 miles northwest of Sandy on Ranch Road 1323, 1,200 feet north on improved road, 25 feet east and 25 feet south of oak tree.

TABLE 17.--CLASSIFICATION OF THE SOILS

Soil name	Family or higher taxonomic class
Aledo	Loamy-skeletal, carbonatic, thermic Lithic Haplustolls
Anhalt	Very-fine, montmorillonitic, thermic Udic Chromusterts
Bolar	Fine-loamy, carbonatic, thermic Typic Calciustolls
Brackett	Loamy, carbonatic, thermic, shallow Typic Ustochrepts
Click	Loamy-skeletal, mixed, thermic Udic Haplustalfs
Doss	Loamy, carbonatic, thermic, shallow Typic Calciustolls
Eckert	Loamy-skeletal, mixed, thermic Lithic Haplustolls
Eckrant	Clayey-skeletal, montmorillonitic, thermic Lithic Haplustolls
Harper	Clayey, montmorillonitic, thermic Lithic Vertic Haplustolls
Heaton	Loamy, siliceous, thermic Arenic Paleustalfs
Hensley	Clayey, mixed, thermic Lithic Rhodustalfs
Houston Black	Fine, montmorillonitic, thermic Udic Pellusterts
Hye	Fine-loamy, mixed, thermic Ultic Haplustalfs
Karnes	Coarse-loamy, carbonatic, thermic Typic Ustochrepts
Katemcy	Fine, mixed, thermic Udic Haplustalfs
Keese	Loamy, mixed, thermic Lithic Ustochrepts
Krum	Fine, montmorillonitic, thermic Vertic Haplustolls
Lewisville	Fine-silty, mixed, thermic Typic Calciustolls
Ligon	Loamy, mixed, thermic, shallow Udic Rhodustalfs
Luckenbach	Fine, mixed, thermic Typic Argiustolls
Nebgen	Loamy, mixed, nonacid, thermic, shallow Typic Ustorthents
Oakalla	Fine-loamy, carbonatic, thermic Cumulic Haplustolls
Oben	Loamy, mixed, thermic, shallow Udic Haplustalfs
Owens	Clayey, mixed, thermic, shallow Typic Ustochrepts
Pedernales	Fine, mixed, thermic Udic Paleustalfs
Purves	Clayey, montmorillonitic, thermic Lithic Calciustolls
Real	Loamy-skeletal, carbonatic, thermic, shallow Typic Calciustolls
Renick	Clayey, montmorillonitic, thermic Lithic Ruptic-Entic Haplustolls
Spicewood	Clayey-skeletal, montmorillonitic, thermic Pachic Argiustolls
Tarpley	Clayey, montmorillonitic, thermic Lithic Vertic Argiustolls
Throck variant	Fine, mixed, thermic Typic Ustochrepts
Voca	Fine, mixed, thermic Udic Paleustalfs
Weswood	Fine-silty, mixed, thermic Fluventic Ustochrepts

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ATTACHMENT U

AREA WATER WELLS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

WELL MAP

500 Ft Buffer

Sludge Application Sites

5723117

5723116

462540

ELM ST
HOLIDAY DR
BUNK GIBBS
S MAIN ST
S PIERCE ST
Haynie Branch
S BOUNDARY ST
CEMETERY
MORMON MILLS RD
VALLEY ST
Hamilton Creek
281
CLINTON HOUSTON DR
S WATER ST
INDUSTRIAL PARK RD
REPRO DR
S LEAGUE ST
MORMON MILLS
Burnet Municipal Airport Kate Craddock Field
INDUSTRIAL BLVD
JOHN KELLY DR
Ascension Seton Highland Lakes Hospital Heliport
CO RD 340A
1340
1280
1260

VICINITY MAP

1 INCH = 10 MILES

CITY OF BURNET

BURNET COUNTY, TEXAS

N W E S

0 600

1 INCH = 600 FEET

Legend

- Well Reports
- TWDB Groundwater
- 500 Ft Buffer
- Parcels
- Sludge Application Area

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QUIDDITY

Texas Board of Professional Engineers Registration No. F-23290

Path: V:\Practice Workspace\Corporate Services\GIS\Projects\0_USGS Maps\City of Burnet\COB USGS Map.aprx Project Number: 0A737-0008-01.001 Date: 8/1/2024 User Name: ahinkle

STATE OF TEXAS WELL REPORT for Tracking #462540

Owner:	**U.S. EPA**	Owner Well #:	**CMT105**
Address:	**1445 Ross Avenue, Suite 1200 Dallas, TX 75202**	Grid #:	**57-23-1**
Well Location:	**301 Waste Water Way Burnet, TX 78611**	Latitude:	**30° 44' 12.2" N**
		Longitude:	**098° 13' 44.1" W**
Well County:	**Burnet**	Elevation:	**1246 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **8/8/2017** Drilling End Date: **8/12/2017**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**300**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
29	**35**	**Sand**	**20/40**
55	**56**	**Sand**	**20/40**
60	**67**	**Gravel**	**Pea Gravel**
84	**88**	**Sand**	**20/40**
113	**120**	**Sand**	**20/40**
205	**210**	**Sand**	**20/40**
240	**250**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**29**	**Bentonite 9 Bags/Sacks**
35	**55**	**Bentonite 6 Bags/Sacks**
56	**60**	**Bentonite 1 Bags/Sacks**
67	**84**	**Bentonite 4 Bags/Sacks**
88	**113**	**Bentonite 8 Bags/Sacks**
120	**205**	**Bentonite 28 Bags/Sacks**
210	**240**	**Bentonite 10 Bags/Sacks**
250	**300**	**Bentonite 16 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **25 ft.** below land surface on **2017-08-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	*Water Type*
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **YELLOW JACKET DRILLING SERVICES LLC**

PO BOX 801
GILBERT, AZ 85299

Driller Name: **Joseph Valentine** License Number: **60022**

Comments: **No Data**

Report Amended on 10/18/2017 by Request #23392

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	*Bottom (ft.)*	*Description*
0	**5**	**Brown Clay**
5	**10**	**Sand**
10	**15**	**Clay**
15	**300**	**Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	*Type*	*Material*	*Sch./Gage*	*Top (ft.)*	*Bottom (ft.)*
2	**CMT Tubing**	**New Plastic**		**0**	**244**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 57-23-116

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5723116
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.740556
Latitude (degrees minutes seconds)	30° 44' 26" N
Longitude (decimal degrees)	-98.225555
Longitude (degrees minutes seconds)	098° 13' 32" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Groundwater Conservation District
Land Surface Elevation (feet above sea level)	1245
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Burnet Dog Pound
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	6/14/2012
Last Update Date	7/14/2016

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 57-23-117

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5723117
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.7438889
Latitude (degrees minutes seconds)	30° 44' 38" N
Longitude (decimal degrees)	-98.2272222
Longitude (degrees minutes seconds)	098° 13' 38" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Groundwater Conservation District
Land Surface Elevation (feet above sea level)	1249
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	
Water Level Observation	GCD Current Site Visit
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Burnet Irrigation North
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	6/14/2012
Last Update Date	9/1/2016

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

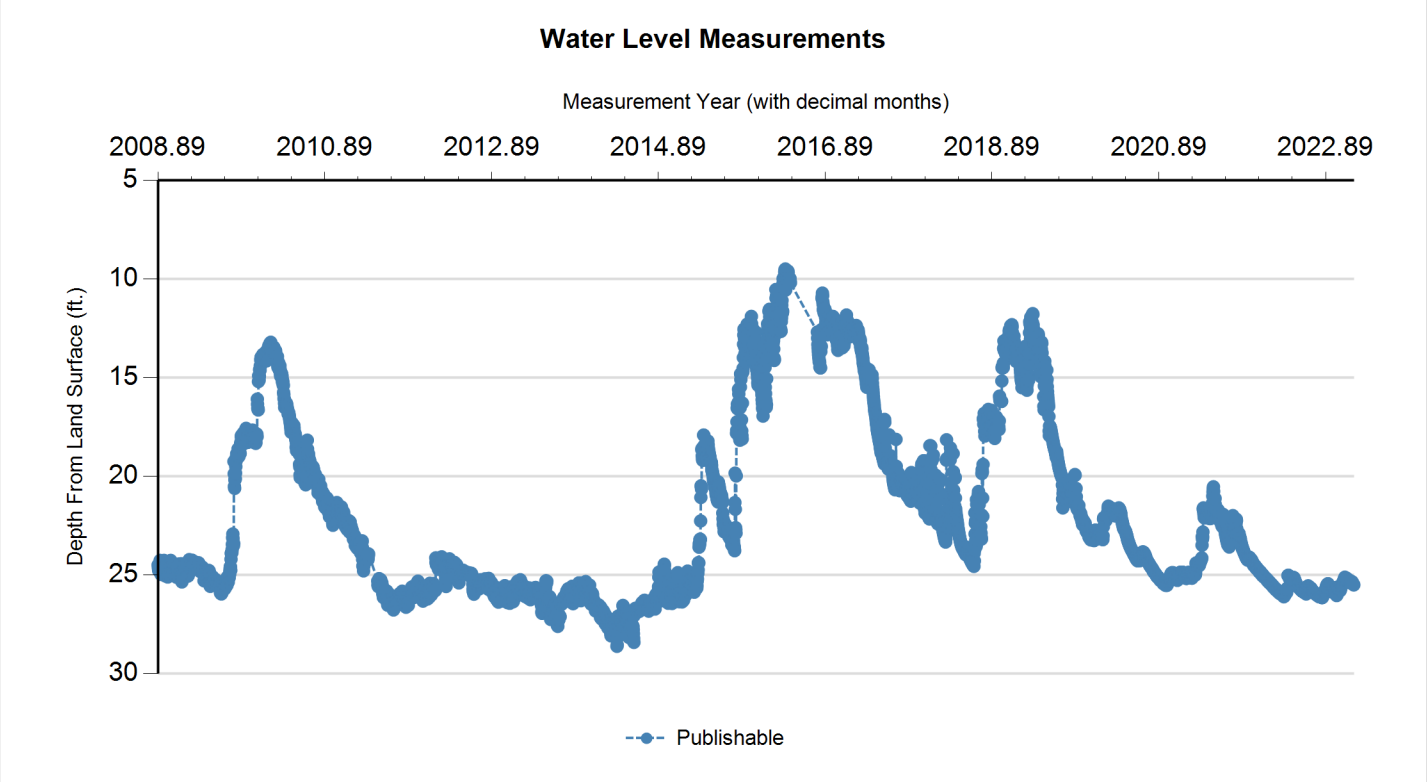
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/26/2008		24.49		1224.51	1	Groundwater Conservation District	Transducer		
P	11/27/2008		24.6	0.11	1224.4	1	Groundwater Conservation District	Transducer		
P	11/28/2008		24.7	0.10	1224.3	1	Groundwater Conservation District	Transducer		
P	11/29/2008		24.78	0.08	1224.22	1	Groundwater Conservation District	Transducer		
P	11/30/2008		24.79	0.01	1224.21	1	Groundwater Conservation District	Transducer		
P	12/1/2008		24.66	(0.13)	1224.34	1	Groundwater Conservation District	Transducer		
P	12/2/2008		24.43	(0.23)	1224.57	1	Groundwater Conservation District	Transducer		
P	12/3/2008		24.73	0.30	1224.27	1	Groundwater Conservation District	Transducer		
P	12/4/2008		24.46	(0.27)	1224.54	1	Groundwater Conservation District	Transducer		
P	12/5/2008		24.26	(0.20)	1224.74	1	Groundwater Conservation District	Transducer		
P	12/6/2008		24.45	0.19	1224.55	1	Groundwater Conservation District	Transducer		
P	12/7/2008		24.41	(0.04)	1224.59	1	Groundwater Conservation District	Transducer		
P	12/8/2008		24.6	0.19	1224.4	1	Groundwater Conservation District	Transducer		
P	12/9/2008		24.97	0.37	1224.03	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/5/2023		25.39	(0.05)	1223.61	1	Groundwater Conservation District	Transducer		
P	2/6/2023		25.36	(0.03)	1223.64	1	Groundwater Conservation District	Transducer		
P	2/7/2023		25.34	(0.02)	1223.66	1	Groundwater Conservation District	Transducer		
P	2/8/2023		25.33	(0.01)	1223.67	1	Groundwater Conservation District	Transducer		
P	2/9/2023		25.28	(0.05)	1223.72	1	Groundwater Conservation District	Transducer		
P	2/10/2023		25.29	0.01	1223.71	1	Groundwater Conservation District	Transducer		
P	2/11/2023		25.24	(0.05)	1223.76	1	Groundwater Conservation District	Transducer		
P	2/12/2023		25.19	(0.05)	1223.81	1	Groundwater Conservation District	Transducer		
P	2/13/2023		25.16	(0.03)	1223.84	1	Groundwater Conservation District	Transducer		
P	2/14/2023		25.11	(0.05)	1223.89	1	Groundwater Conservation District	Transducer		
P	2/15/2023		25.14	0.03	1223.86	1	Groundwater Conservation District	Transducer		
P	2/16/2023		25.16	0.02	1223.84	1	Groundwater Conservation District	Transducer		
P	2/17/2023		25.19	0.03	1223.81	1	Groundwater Conservation District	Transducer		
P	2/18/2023		25.18	(0.01)	1223.82	1	Groundwater Conservation District	Transducer		
P	2/19/2023		25.16	(0.02)	1223.84	1	Groundwater Conservation District	Transducer		
P	2/20/2023		25.18	0.02	1223.82	1	Groundwater Conservation District	Transducer		
P	2/21/2023		25.18	0.00	1223.82	1	Groundwater Conservation District	Transducer		
P	2/22/2023		25.16	(0.02)	1223.84	1	Groundwater Conservation District	Transducer		
P	2/23/2023		25.21	0.05	1223.79	1	Groundwater Conservation District	Transducer		
P	2/24/2023		25.27	0.06	1223.73	1	Groundwater Conservation District	Transducer		
P	2/25/2023		25.28	0.01	1223.72	1	Groundwater Conservation District	Transducer		
P	2/26/2023		25.28	0.00	1223.72	1	Groundwater Conservation District	Transducer		
P	2/27/2023		25.27	(0.01)	1223.73	1	Groundwater Conservation District	Transducer		
P	2/28/2023		25.28	0.01	1223.72	1	Groundwater Conservation District	Transducer		
P	3/1/2023		25.31	0.03	1223.69	1	Groundwater Conservation District	Transducer		
P	3/2/2023		25.3	(0.01)	1223.7	1	Groundwater Conservation District	Transducer		
P	3/3/2023		25.32	0.02	1223.68	1	Groundwater Conservation District	Transducer		

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 57-23-117

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/4/2023		25.27	(0.05)	1223.73	1	Groundwater Conservation District	Transducer		
P	3/5/2023		25.29	0.02	1223.71	1	Groundwater Conservation District	Transducer		
P	3/6/2023		25.29	0.00	1223.71	1	Groundwater Conservation District	Transducer		
P	3/7/2023		25.31	0.02	1223.69	1	Groundwater Conservation District	Transducer		
P	3/8/2023		25.3	(0.01)	1223.7	1	Groundwater Conservation District	Transducer		
P	3/9/2023		25.33	0.03	1223.67	1	Groundwater Conservation District	Transducer		
P	3/10/2023		25.36	0.03	1223.64	1	Groundwater Conservation District	Transducer		
P	3/11/2023		25.32	(0.04)	1223.68	1	Groundwater Conservation District	Transducer		
P	3/12/2023		25.34	0.02	1223.66	1	Groundwater Conservation District	Transducer		
P	3/13/2023		25.4	0.06	1223.6	1	Groundwater Conservation District	Transducer		
P	3/14/2023		25.41	0.01	1223.59	1	Groundwater Conservation District	Transducer		
P	3/15/2023		25.36	(0.05)	1223.64	1	Groundwater Conservation District	Transducer		
P	3/16/2023		25.34	(0.02)	1223.66	1	Groundwater Conservation District	Transducer		
P	3/17/2023		25.43	0.09	1223.57	1	Groundwater Conservation District	Transducer		
P	3/18/2023		25.43	0.00	1223.57	1	Groundwater Conservation District	Transducer		
P	3/19/2023		25.46	0.03	1223.54	1	Groundwater Conservation District	Transducer		
P	3/20/2023		25.45	(0.01)	1223.55	1	Groundwater Conservation District	Transducer		
P	3/21/2023		25.46	0.01	1223.54	1	Groundwater Conservation District	Transducer		
P	3/22/2023		25.48	0.02	1223.52	1	Groundwater Conservation District	Transducer		
P	3/23/2023		25.5	0.02	1223.5	1	Groundwater Conservation District	Transducer		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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ATTACHMENT V

HYDROLOGIC CHARACTERISTICS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

TCEQ 10451, Section 2, Item 8, HYDROLOGIC CHARACTERISTICS INFORMATION

a. Aquifer identification per report 345 of Texas Water Development Board.

Major Aquifers in project area:	Trinity Aquifer
Minor Aquifers in project area:	Hickory Aquifer Ellenburger-San Saba Aquifer

b. Location of the area according to the geologic atlas of Texas published by Bureau of Economic Geology, University of Texas at Austin.

Project locations are on the Bureau of Economic Geology geologic atlas Llano Map. Soil boring information for previous projects at the wastewater treatment plant and airport sites is located in Attachment P.

c. Any feature that exhibits a direct hydrologic connection between surface and subsurface water.

Hamiliton Creek – Sludge application area will have a 200 foot proposed buffer from creek as in existing permit

Wells – Wells were identified in the general area of the project based on the Texas Water Development Board web site (http://wiid.twdb.state.tx.us), Burnet Water and Wastewater Department personnel field reconnaissance and knowledge, and the Central Texas Groundwater Conservation District and the information is presented in Attachments R and T.

Springs – No information on springs in the proposed project area was found.

d. List periods of seasonal perched and/or high water table if any.

Specific information on periods of seasonal perched and/or a high water table in the proposed project area was not located. However, soil borings related to prior projects at the wastewater treatment plant and airport sites are included in Attachment P and address ground water elevations found.

Soil borings in coordination with wastewater treatment plant site design were performed in 1983, 1995, and 2008. The 1983 report (See Attachment P – Soil Information) indicated finding groundwater at four and one half (4.5) feet below the surface and indicated the groundwater level is very likely closely related to the water level in Hamiliton Creek and may be expected to vary seasonally. The 1995 report (See Attachment P – Soil Information) indicated no groundwater down to twenty (20) feet and indicated that ground water may be encountered at other locations of the site and the actual depth of the ground water will vary with the amount of preceding rainfall. Discussions with the soils lab personnel which have performed similar borings at the plant site in 2008 (report not yet completed) indicated finding ground water at approximately eight (8) feet below the surface.

Soil borings in coordination with the Burnet Municipal Airport improvements in 1992 (See Attachment P – Soil Information) found no ground water down to seven (7) feet.

Texas Water Development Board

Report 345

Aquifers of Texas

by
John B. Ashworth, Geologist
and
Janie Hopkins, Geologist

November 1995

Texas Water Development Board

Craig D. Pedersen, Executive Administrator

Texas Water Development Board

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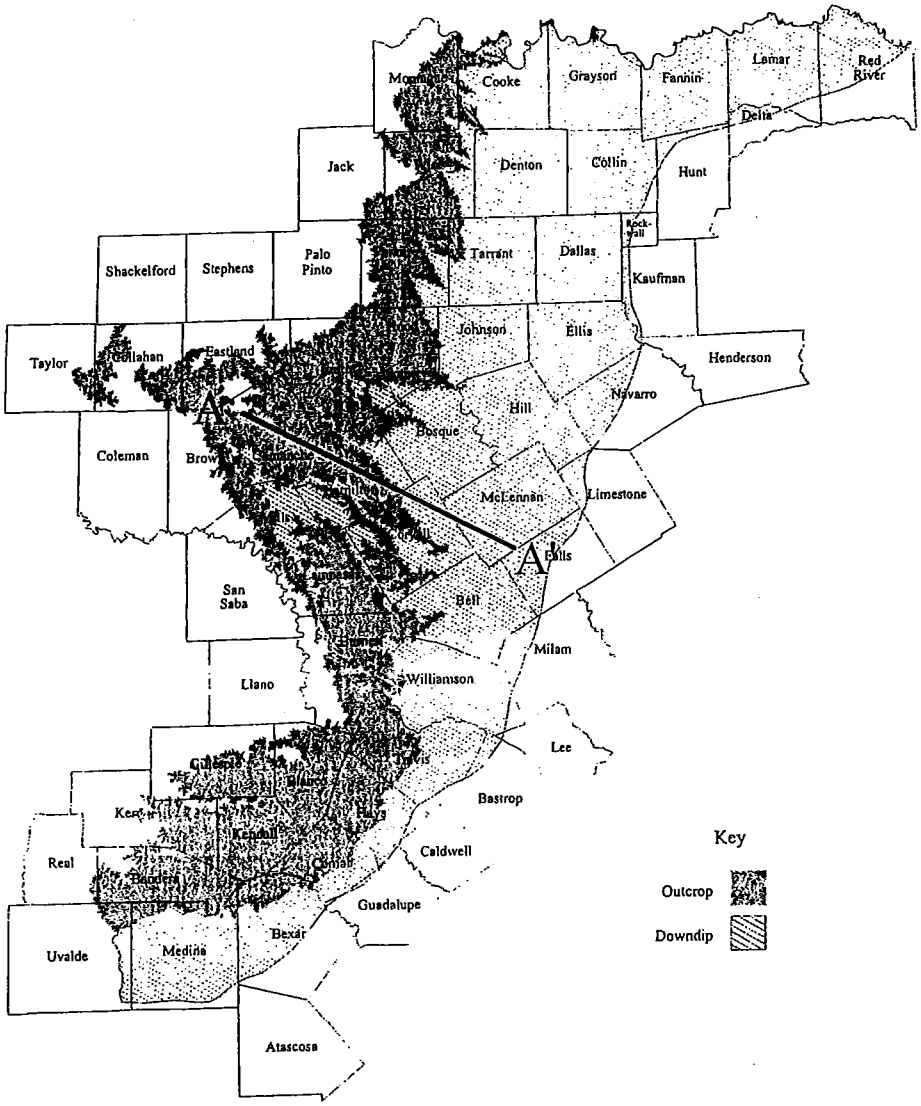
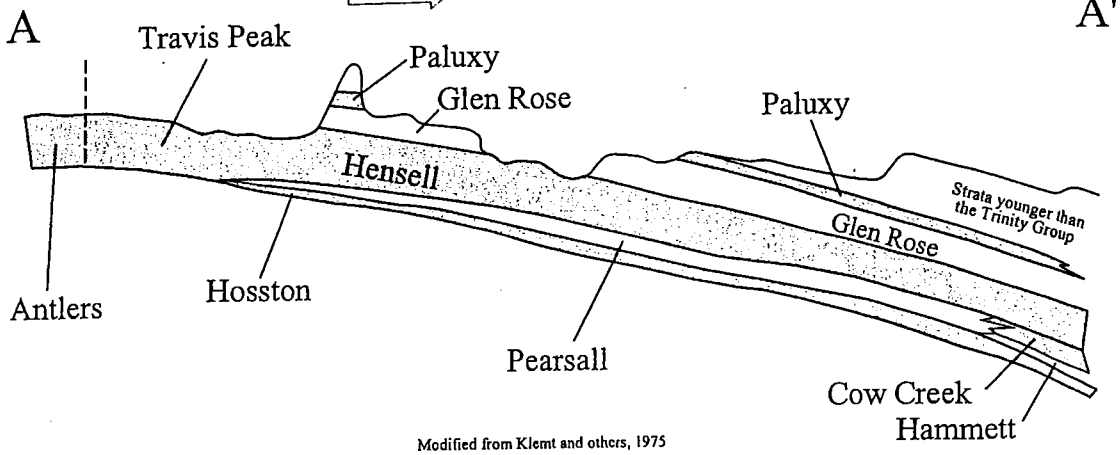
Trinity





Modified from Klemt and others, 1975

Trinity Aquifer

The Trinity aquifer consists of early Cretaceous age formations of the Trinity Group where they occur in a band extending through the central part of the state in all or parts of 55 counties, from the Red River in North Texas to the Hill Country of South-Central Texas. Trinity Group deposits also occur in the Panhandle and Edwards Plateau regions where they are included as part of the Edwards-Trinity (High Plains and Plateau) aquifers.

Formations comprising the Trinity Group are (from youngest to oldest) the Paluxy, Glen Rose, and Twin Mountains-Travis Peak. Updip, where the Glen Rose thins or is missing, the Paluxy and Twin Mountains coalesce to form the Antlers Formation. The Antlers consists of up to 900 feet of sand and gravel, with clay beds in the middle section. Water from the Antlers is mainly used for irrigation in the outcrop area of North and Central Texas.

Forming the upper unit of the Trinity Group, the Paluxy Formation consists of up to 400 feet of predominantly fine- to coarse-grained sand interbedded with clay and shale. The formation pinches out downdip and does not occur south of the Colorado River.

Underlying the Paluxy, the Glen Rose Formation forms a gulfward-thickening wedge of marine carbonates consisting primarily of limestone. South of the Colorado River, the Glen Rose is the upper unit of the Trinity Group and is divisible into an upper and lower member. In the north, the downdip portion of the aquifer becomes highly mineralized and is a source of contamination to wells that are drilled into the underlying Twin Mountains.

The basal unit of the Trinity Group consists of the Twin Mountains and Travis Peak formations, which are laterally separated by a facies change. To the north, the Twin Mountains Formation consists mainly of medium- to coarse-grained sands, silty clays, and conglomerates. The Twin Mountains is the most prolific of the Trinity aquifers in North-Central Texas; however, the quality of the water is generally not as good as that from the Paluxy or Antlers Formations. To the south, the Travis Peak Formation contains calcareous sands and silts, conglomerates, and limestones. The formation is subdivided into the following members in descending order: Hensell, Pearsall, Cow Creek, Hammett, Sligo, Hosston, and Sycamore.

Extensive development of the Trinity aquifer has occurred in the Fort Worth-Dallas region where water levels have historically dropped as much as 550 feet. Since the mid-1970s, many public supply wells have been abandoned in favor of a surface-water supply, and water levels have responded with slight rises. Water-level declines of as much as 100 feet are still occurring in Denton and Johnson counties. The Trinity aquifer is most extensively developed from the Hensell and Hosston members in the Waco area, where the water level has declined by as much as 400 feet.

References

Ashworth, J.B., 1983, Ground-water availability of the lower Cretaceous formations in the Hill Country of South-Central Texas: TDWR Rept. 273, 65 p.

Baker, B., Duffin, G., Flores, R., and Lynch, T., 1990, Evaluation of water resources in part of Central Texas: TWDB Rept. 319, 65 p.

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Brune, G., and Duffin, G.L., 1983, Occurrence, availability, and quality of ground water in Travis County, Texas: TDWR Rept. 276, 231 p.

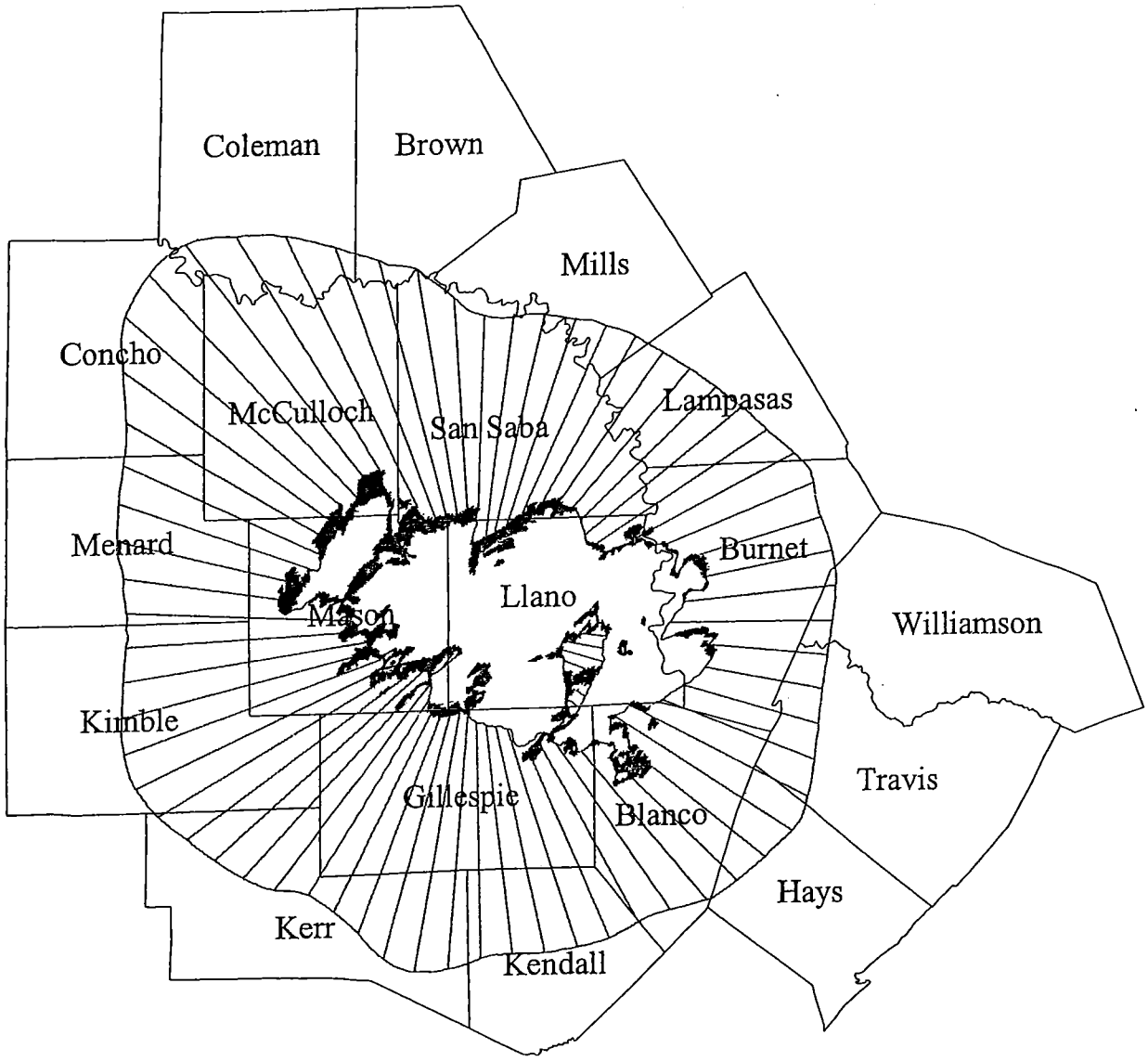
Duffin, G., and Musick, S.P., 1991, Evaluation of water resources in Bell, Burnet, Travis, Williamson, and parts of adjacent counties, Texas: TWDB Rept. 326, 105 p.

Klemt, W.B., Perkins, R.D., and Alvarez, H.J., 1975, Ground-water resources of part of Central Texas, with emphasis on the Antlers and Travis Peak formations: TWDB Rept. 195, 2 vols.

Nordstrom, P.L., 1982, Occurrence, availability, and chemical quality of ground water in the Cretaceous aquifers of North-Central Texas: TDWR Rept. 269, 2 vols.

____, 1987, Ground-water resources of the Antlers and Travis Peak formations in the outcrop area of North-Central Texas: TWDB Rept. 298, 297 p.

Hickory



Key

Outcrop

Downdip

Hickory Aquifer

The Hickory aquifer occurs in parts of 19 counties in the Llano Uplift region of Central Texas. Discontinuous outcrops of the Hickory Sandstone overlie and flank exposed Precambrian rocks that form the central core of the uplift. The downdip artesian portion of the aquifer encircles the uplift and extends to maximum depths approaching 4,500 feet. Most of the water pumped from the aquifer is used for irrigation. The largest capacity wells, however, have been completed for municipal water-supply purposes at Brady, Mason, and Fredericksburg.

The Hickory Sandstone Member of the Cambrian Riley Formation is composed of some of the oldest sedimentary rocks found in Texas. In most of the northern and western portions of the aquifer, the Hickory can be differentiated into lower, middle, and upper units, which reach a maximum thickness of 480 feet in southwestern McCulloch County. In the southern and eastern extents of the aquifer, the Hickory consists of only two units. Block faulting has compartmentalized the Hickory aquifer, thus restricting flow.

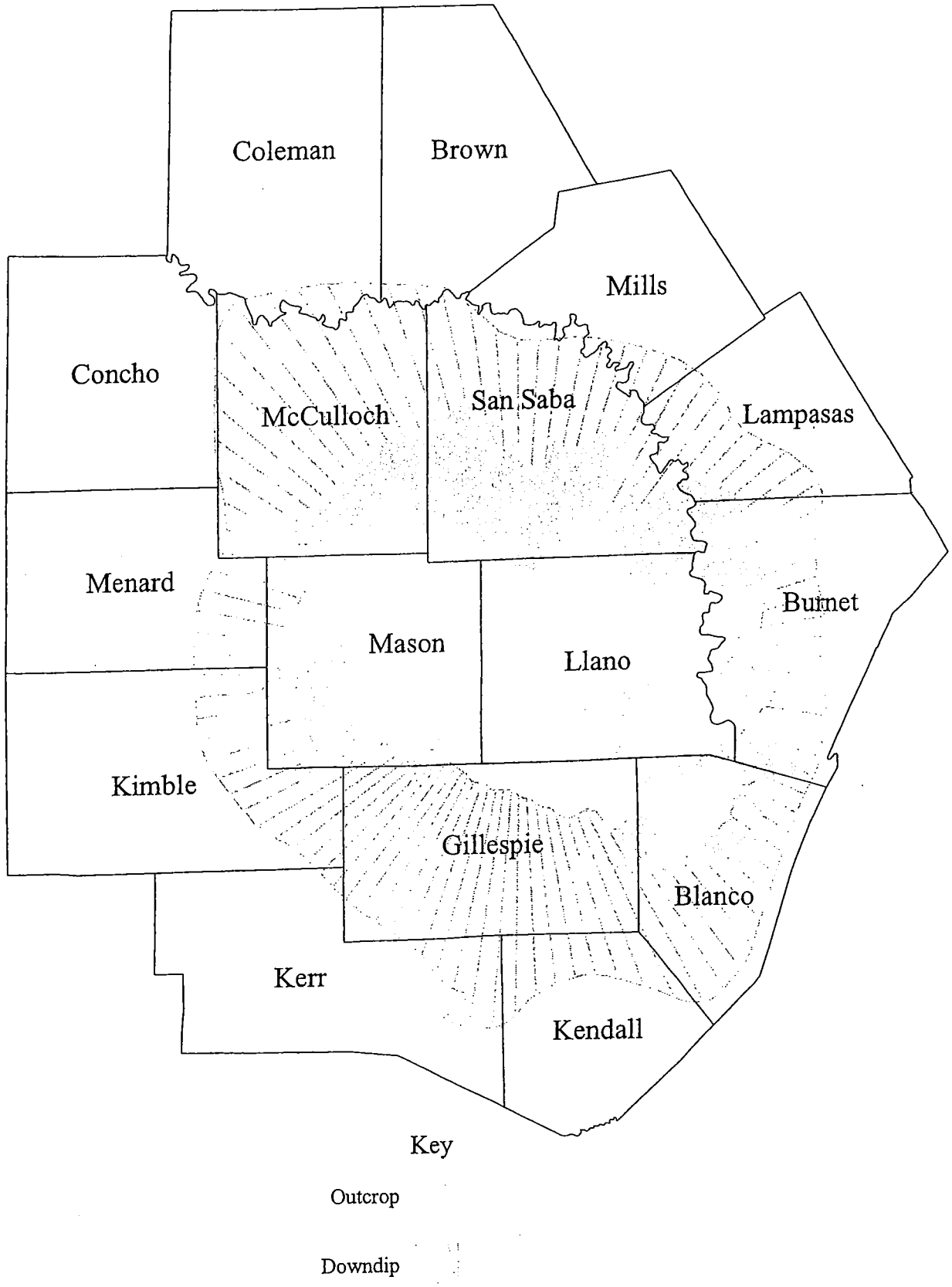
Ground water from the aquifer is generally fresh. However, locally, the aquifer produces water with excessive alpha particles and total radium concentrations in excess of drinking water standards. The water can also contain radon gas. The upper unit of the Hickory produces ground water containing concentrations of iron in excess of drinking water standards.

References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Rept. 339, 130 p.

Mason, C.C., 1961, Ground-water geology of the Hickory Sandstone Member of the Riley Formation, McCulloch County, Texas: TBWE Bull. 6017, 85 p.

Ellenburger-San Saba



Ellenburger-San Saba Aquifer

The Ellenburger-San Saba aquifer occurs in parts of 15 counties in the Llano Uplift area of Central Texas. Discontinuous outcrops of the aquifer encircle older rocks in the core of the uplift, and the remaining downdip portion extends to depths of approximately 3,000 feet below land surface. Regional block faulting has significantly compartmentalized the aquifer.

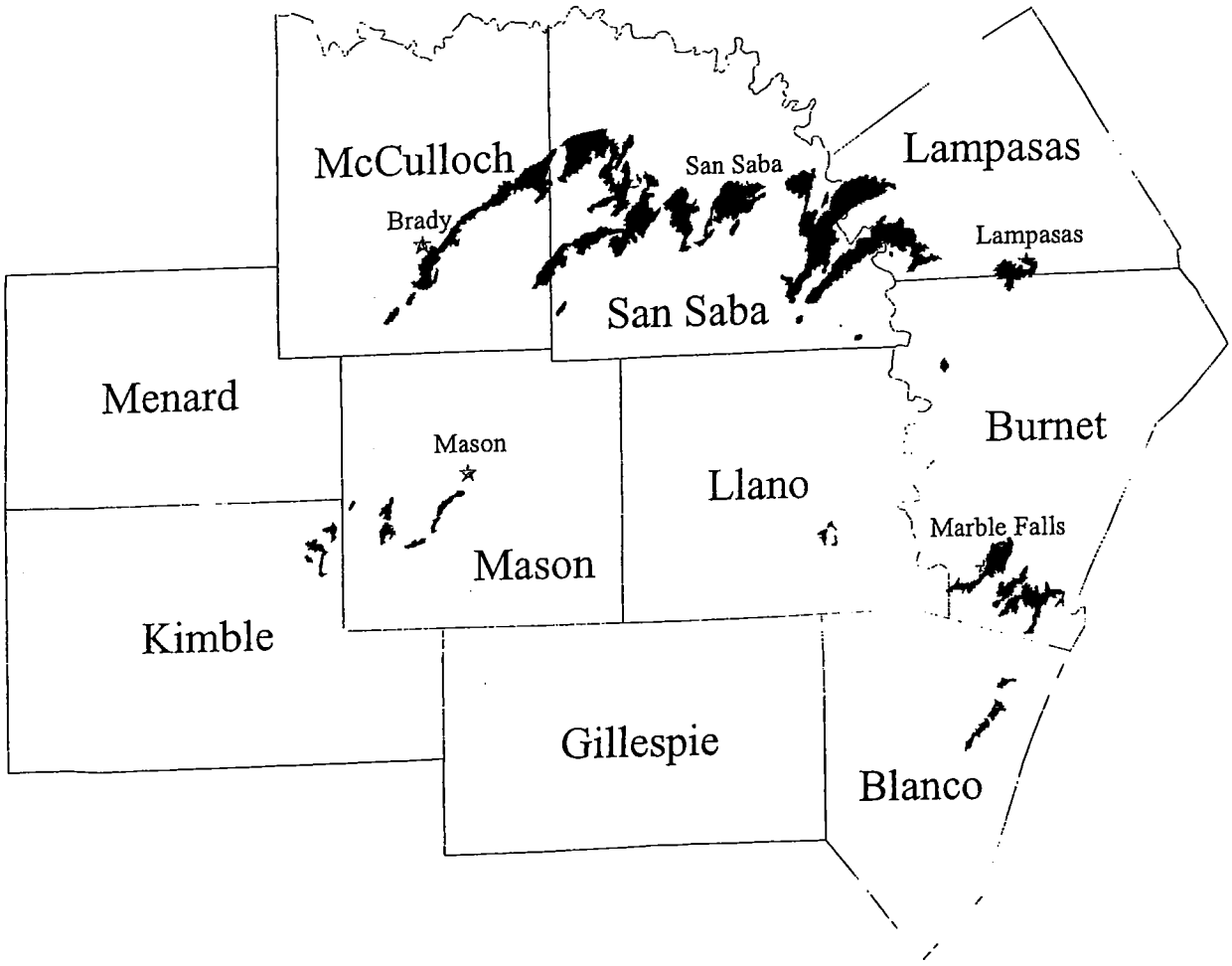
Three-fourths of the water pumped from the aquifer is used for municipal water supplies at Fredericksburg, Johnson City, Bertram, and Richland Springs. Also, a large portion of water flowing from San Saba Springs, which is the water supply for the city of San Saba, is believed to be from the Ellenburger-San Saba and Marble Falls aquifers.

The aquifer occurs in limestone and dolomite facies in the San Saba Member of the Wilberns Formation of late Cambrian age, and in the Honeycut, Gorman, and Tanyard formations of the Ellenburger Group of early Ordovician age. Water in the aquifer primarily occurs in solution cavities formed along faults and related fractures. The Ellenburger-San Saba aquifer in some areas may be hydrologically connected to the Marble Falls aquifer. Water produced from the aquifer is inherently hard and usually has less than 1,000 mg/l dissolved solids.

References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Rept. 339, 139 p.

Marble Falls



Marble Falls Aquifer

The Marble Falls aquifer occurs in several separated outcrops, primarily along the northern and eastern flanks of the Llano Uplift. It provides water to parts of Blanco, Burnet, Lampasas, McCulloch, and San Saba counties, and to even smaller parts of Kimble, Llano, and Mason counties in Central Texas. San Saba and Rochelle are the two largest communities that withdraw water from the aquifer for public supply use. Wells have been reported to yield as much as 2,000 gal/min; however, most wells produce substantially less.

Ground water occurs in fractures, solution cavities, and channels in the limestone of the Marble Falls Formation of the Pennsylvanian Bend Group. Maximum thickness of the formation is 600 feet. Where underlying beds are thin or absent, the Marble Falls and Ellenburger-San Saba aquifers may be hydrologically connected. Numerous large springs issue from the aquifer and provide a significant part of the baseflow to the San Saba River in McCulloch and San Saba counties, and to the Colorado River in San Saba and Lampasas counties.

The quality of water produced from the aquifer is suitable for most purposes. The downdip artesian portion in most areas is not extensive and becomes significantly mineralized within relatively short distances from the outcrop recharge area.

References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Rept. 339, 130 p.

Central Texas Groundwater Conservation District

District Management Plan

Adopted – April 16, 2007

Mr. John Simmons
President, Board of Directors
Central Texas Groundwater Conservation District
P.O. Box 870
Burnet, Texas 78611

May 11, 2007

Re: Delivery of Groundwater Management Plan

Dear Mr. Simmons:

TCB Inc. is pleased to deliver to the Central Texas Groundwater Conservation District (CTGCD) this Groundwater Management Plan (Plan) for submittal to the Texas Water Development Board (TWDB). The Plan has been developed in conjunction with the CTGCD Management Plan Committee, the CTGCD Board of Directors and the CTGCD Legal Counsel, Lloyd Gosselink Blevins Rochelle & Townsend P.C. The simulations of the portion of the Northern Trinity aquifer in Burnet County using the TWDB Groundwater Availability Model for the N. Trinity / Woodbine aquifer performed to assess the projected effects of pumping, and the projections of groundwater availability from the Marble Falls, Hickory, and Ellenburger San Saba aquifers in Burnet County described in the plan document were done under my supervision and direction.

The observations and assessments made in this Plan were based on data available from public sources or referenced published sources available at the time of the plan development. The values describing spring discharges and groundwater availability presented in the Plan are based on the available data, reasonable methods of assessment and policy decisions by the CTGCD Board of Directors. If new or different data regarding groundwater conditions in Burnet County is made available, or if the adopted policies of the CTGCD Board are amended, those values presented in the Plan may change.

I have enjoyed working with the CTGCD in the development of the Plan and look forward to assisting CTGCD in the future.

Sincerely,

STATE OF TEXAS
CHARLES R. WILLIAMS
GEOLOGY
No. 590
LICENSED
PROFESSIONAL GEOLOGIST

Charles R. Williams P.G.

I. DISTRICT MISSION

The mission of the Central Texas Groundwater Conservation District (District) is to protect and enhance the groundwater resources of Burnet County while protecting groundwater users and maintaining the economic vitality of the communities it serves, by adopting and enforcing rules consistent with State law.

II. PURPOSE OF THE MANAGEMENT PLAN

Senate Bill 1 (SB 1), enacted by the 75th Texas Legislature in 1997, and Senate Bill 2 (SB 2), enacted by the 77th Texas Legislature in 2001, established a comprehensive statewide planning process and the actions necessary for districts to manage and conserve the groundwater resources of the state of Texas. These bills required all underground water conservation districts to develop a management plan which defines the water needs and supply within each district and the goals each district will use to manage the underground water in order to meet its needs. In addition, the 79th Texas Legislature enacted HB 1763 in 2005 that requires joint planning among districts that are in the same Groundwater Management Area (GMA). These districts must establish the desired future conditions of the aquifers within their respective GMAs. Through this process, the districts will submit the desired future conditions to the executive administrator of the Texas Water Development Board (TWDB) who will provide each district with the estimates concerning the managed available groundwater in the management area based on the desired future conditions of the aquifers in the area. Technical information, such as the desired future conditions of the aquifers within the District's jurisdiction and the amount of managed available groundwater from such aquifers is required by statute to be included in the District's management plan and will guide the District's regulatory and management policies. This management plan is intended to satisfy the requirements of SB 1, SB 2, HB 1763, the statutory requirements of Texas Water Code (TWC) Chapter 36, and the rules and requirements of the TWDB.

This plan is required by the TWC and developed in accordance with instruction from the TWDB. The TWC and the TWDB require use of certain data provided by the TWDB. The projections of future water demands, surface water availability, water management strategies, and groundwater use in Burnet County were all provided to the District by TWDB This document should be considered as a PLAN and will be used to identify activities or programs that the District will develop. The District considers the collection and development of site-specific data on groundwater use in Burnet County and the groundwater sources of Burnet County to be a high priority. This Plan will be updated as the District develops the site-specific data on the local groundwater use and aquifer conditions. The District is not restricted by the TWC or TWDB as to the frequency with which the Plan may be updated if considered it is appropriate by the District.

III. DISTRICT INFORMATION

A. Creation

The 79th Texas Legislature (Regular Session) created the District in 2005 by passage of SB 967. (Appendix A) The citizens of Burnet County confirmed creation of the District by an election held on September 24, 2005. The District was formed to protect the underground water resources for the citizens of Burnet County. To manage the groundwater resources under its jurisdiction the District is charged with the rights and responsibilities specified in its enabling legislation; the provisions of Chapter 36 of the Texas Water Code; this Management Plan, and the District Rules.

B. Directors

The Board of Directors consists of five members. These five directors are elected by the voters of Burnet County and serve a four-year term. The District observes the same four precincts as the Burnet County Commissioners with one at-large position. Director terms are staggered on a two-year interval. Elections are held in May, in even numbered years. A director may serve consecutive terms.

C. Authority

The District has the rights and responsibilities provided for in TWC Chapter 36 and 31 Texas Administrative Code (TAC) Chapter 356. The District is charged with undertaking hydrogeological studies, adopting a management plan, providing for the permitting of certain water wells and implementing programs to achieve statutory mandates. The District has rule-making authority to implement the policies and procedures needed to manage the groundwater resources of Burnet County.

D. Location and Extent

The boundaries of the District are the same as Burnet County. (Figure 1) This area encompasses approximately 1,019 square miles (approximately 652,160 acres). The District is bounded by Lampasas County to the north, Bell and Williamson Counties to the east, Travis and Blanco Counties to the south, and Llano and San Saba Counties to the west. Burnet County has a vibrant economy.

E. Topography and Drainage

Burnet County is located on the margin of two geographic regions. The eastern portion of the County is located in the Hill Country Region of the Balcones Escarpment. The western portion of the County is located in the Llano Uplift Region. The Colorado River and its tributaries drain the western and southern portions of the County. The tributaries of the Brazos River drain the northern and eastern portions the County.

F. Groundwater Resources of Burnet County

Burnet County enjoys a variety of groundwater resources. TWDB recognizes one major and three minor aquifers in the County. The TWBD classifies groundwater sources as major or minor aquifers. Major aquifers are defined by TWDB as aquifers that are capable of producing large yields to wells or that produce groundwater over a large area. TWDB has established no definition for a large area, but a large yield may be considered as greater than 500 gallons per minute. Minor aquifers are defined by TWDB as aquifers that may be capable of producing only limited yields to wells or that produce groundwater over a limited area. TWDB has established no definition for a limited area, but a limited yield may be less than 100 gallons per minute. Many localized sources of groundwater may not be listed as a major or minor aquifer by TWDB. However, TWDB recognizes that these classifications, or lack thereof, have no bearing on the local importance of a particular source of groundwater. Even though TWDB recognizes the potential local importance of unrecognized sources of groundwater little or no research may have been devoted to defining the extent or characterizing these resources. This is particularly true where local groundwater management agencies did not exist. At the time of development of this plan, the District has been in operation for less than two years and the existence of localized sources of groundwater is known to the District largely through citizen reports. However, the District is committed to better defining the extent and character of the groundwater resources of Burnet County. (Table 1)

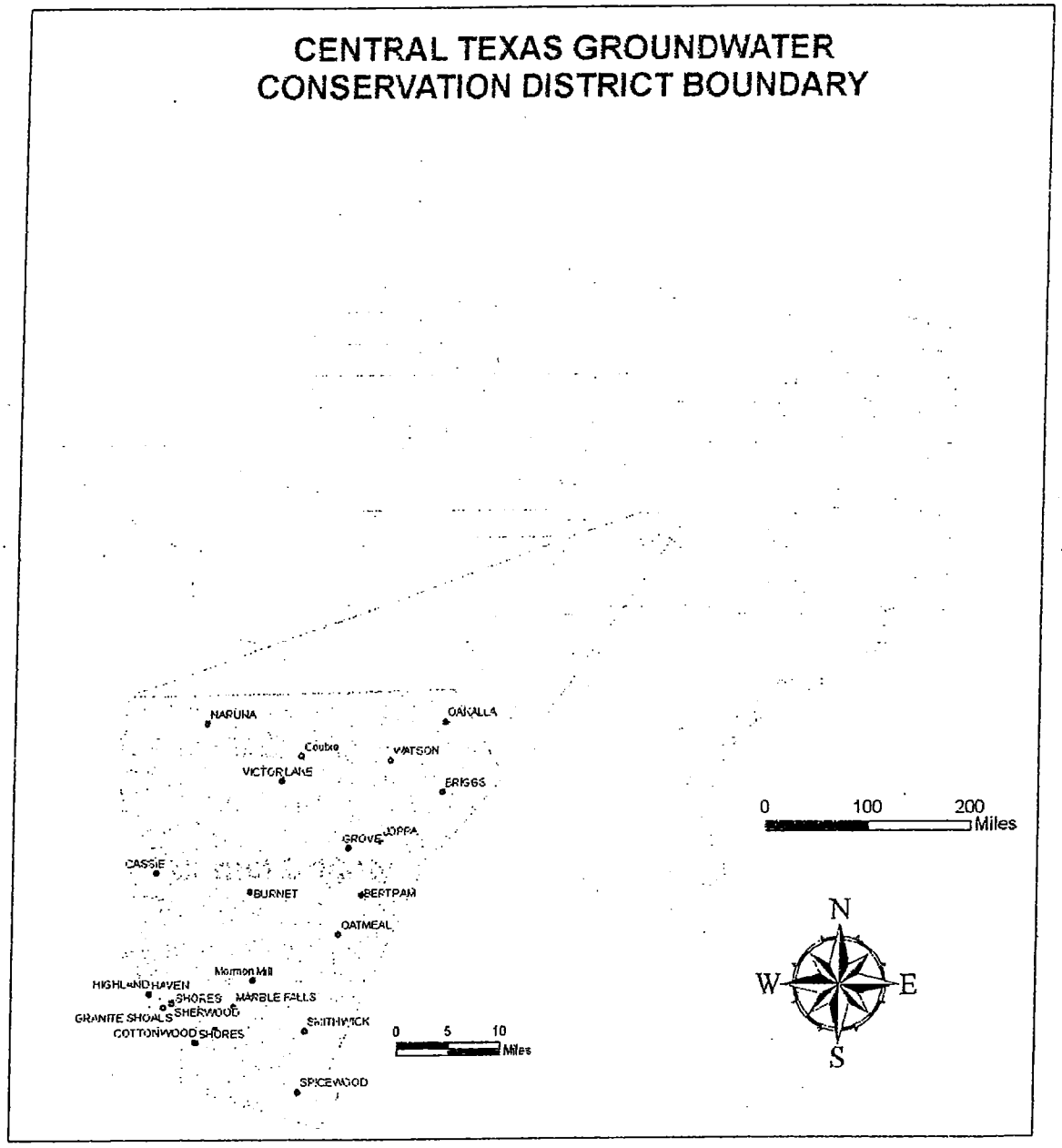


Figure 1, Location and Boundaries of the Central Texas Groundwater Conservation District

Major Aquifer

The only major aquifer located in Burnet County is the Trinity aquifer. (Figure 2)

Trinity Aquifer

The Trinity aquifer is composed of three subdivisions; the Upper Trinity; the Middle Trinity and the Lower Trinity aquifers. The Upper Trinity aquifer is composed of the Paluxy Sand and Glen Rose Formation; the Middle Trinity aquifer is composed of the Hensell Sand and Cow Creek Limestone; and the Lower Trinity aquifer is composed of the Sligo Limestone and Hosston Sand. The Upper Trinity aquifer crops out in the majority of eastern and central Burnet County. The Middle and Lower Trinity have limited outcrops in Burnet County, which both occur at or near the western most extent of the Trinity aquifer in Burnet County. Water in the Upper, Middle and Lower Trinity aquifers may not fully fill the rocks composing the aquifer and the water is in unconfined condition. This condition is un-pressurized and is also known as water-table condition. When water is encountered in this condition during drilling it will not rise in the well bore above the elevation at which it is encountered. The rock composing the Middle and Lower Trinity aquifers may be fully saturated with water but only in somewhat limited areas of eastern and southern Burnet County. This condition is known as confined or artesian condition. This condition is pressurized and when water is encountered during drilling it will rise above the elevation at which it is encountered. The availability of groundwater from the subdivisions of the Trinity aquifer is based on the management of aquifer pumping to maintain the resulting draw down within acceptable limits. The District has established management targets for the limit of acceptable draw down in the Trinity aquifer.

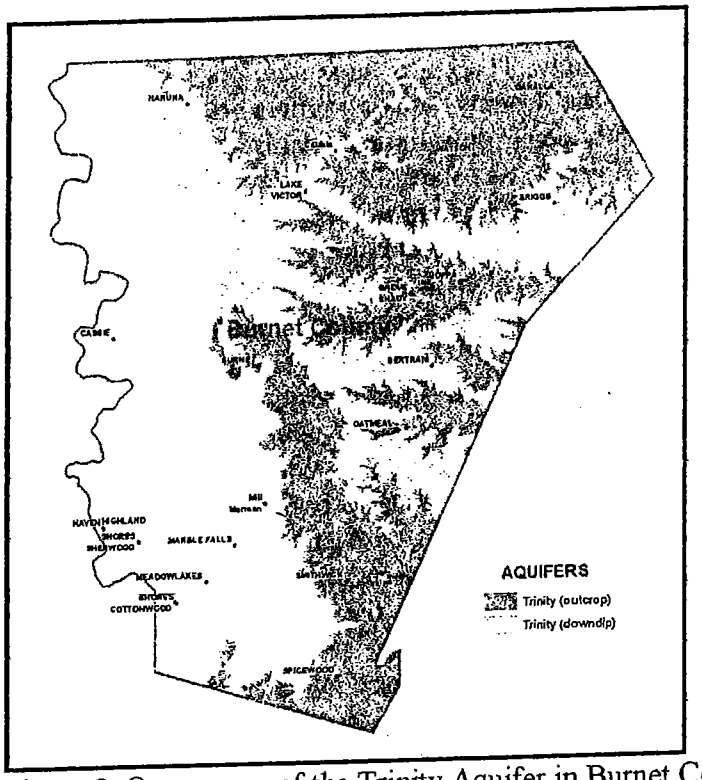


Figure 2, Occurrence of the Trinity Aquifer in Burnet County

Minor Aquifers

The groundwater sources that are not recognized as major aquifers by TWDB are particularly important to Burnet County. There are three aquifers recognized as minor aquifers by TWDB that occur in Burnet County. Minor aquifers are defined by TWDB as aquifers that may be capable of producing only limited yields to wells or that produce groundwater over a limited area. TWDB has established no definition for a limited area, but a limited yield may be less than 100 gallons per minute. In many areas wells produce water from formations which are not recognized as major or minor aquifers and may not have a large area of occurrence but which are vitally important local sources of groundwater. The information available on the characteristics of each of these minor aquifers and unrecognized formations is limited, particularly when compared to the data currently existing on major aquifers like the Trinity Aquifer. Even though TWDB recognizes the potential local importance of unrecognized sources of groundwater little or no research may have been devoted to defining the extent or characterizing these resources. This is particularly true where local groundwater management agencies did not exist. At the time of development of this plan, the District has been in operation for less than two years and the existence of localized sources of groundwater is known to the District largely through citizen reports. However, the District is committed to better defining the extent and character of the groundwater resources of Burnet County. The information included in the management plan for these minor aquifers and unrecognized formations is nevertheless based on the most sound data currently available. The District will gather and evaluate data and information on these sources of groundwater in the future in order to establish management of these important resources, and it will make any revisions to this management plan whenever new or additional information warrants.

Marble Falls Aquifer

The Marble Falls aquifer occurs in several separated outcrops. Water occurs in fractures and solution cavities in the limestone of the Marble Falls Formation of the Pennsylvanian Bend Group. Maximum thickness of the formation is 600 feet, but the thickness in Burnet County is unclear. The quality of water produced from the aquifer is suitable for most purposes. The Marble Falls aquifer is not known to have a down-dip extent in Burnet County and may occur only in the several outcrop areas. (Ashworth and Hopkins, 1995) The recharge zone of the aquifer in Burnet County is approximately 15,790 acres. (Figure 3)

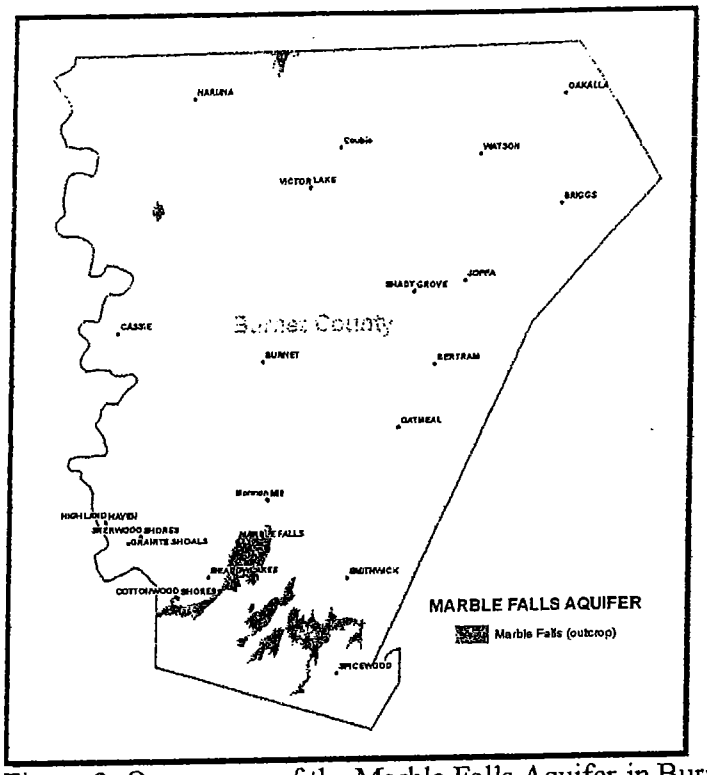


Figure 3, Occurrence of the Marble Falls Aquifer in Burnet County

Ellenburger-San Saba Aquifer

The Ellenburger-San Saba aquifer occurs along the margin of the Llano Uplift in Central Texas. Discontinuous outcrops of the aquifer surround older rocks of the uplift, and the remaining downdip portion may extend to depths of up to 3,000 feet below land surface. It is unknown if the aquifer reaches this depth in Burnet County. The aquifer is compartmentalized by block faulting. The aquifer is composed of the limestone and dolomite of the San Saba Member of the Wilberns Formation of late Cambrian age, and the Honeycut, Gorman, and Tanyard formations of the Ellenburger Group of early Ordovician age. Water occurs in solution cavities formed along faults and related fractures. Water produced from the aquifer may be hard but have less than 1,000 mg/l dissolved solids. (Ashworth and Hopkins, 1995) The recharge zone for the aquifer in Burnet County is approximately 110,413 acres. (Figure 4)

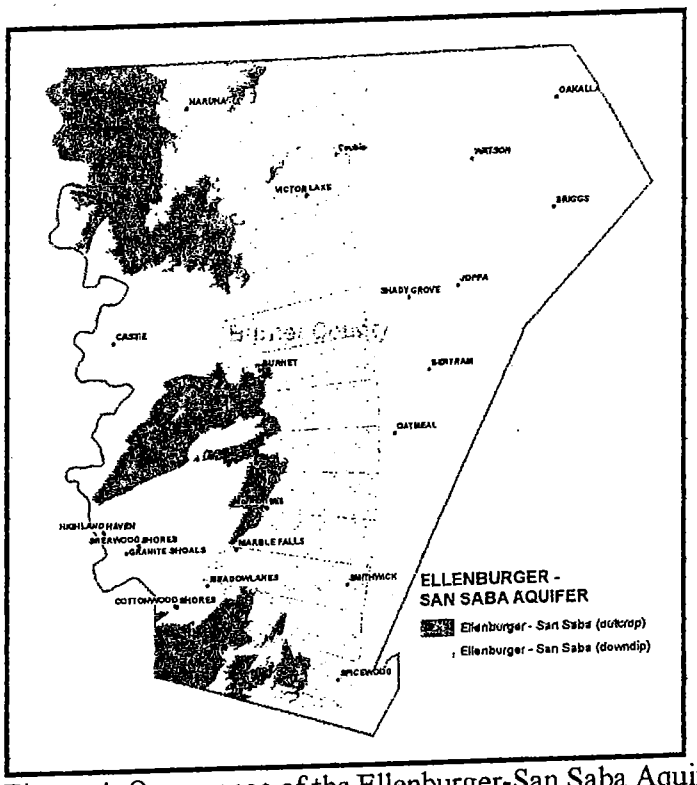


Figure 4, Occurrence of the Ellenburger-San Saba Aquifer in Burnet County

Hickory Aquifer

The Hickory aquifer occurs in the Llano Uplift region of Central Texas. Non-continuous Hickory Sandstone outcrops may overlie or flank exposed Precambrian rocks forming the central uplift core. The downdip (artesian) portion of the aquifer surrounds the uplift and may extend to depths approaching 4,500 feet. It is unknown if the aquifer occurs at this depth in Burnet County. The Hickory Sandstone Member of the Cambrian Riley Formation is one of the oldest sedimentary rock formations in Texas. In the southern and eastern extents of the aquifer, the Hickory consists of two units. The flow of the Hickory aquifer is restricted due to block faulting. Water from the aquifer is generally fresh, but locally may have alpha particle and radium concentrations in excess of drinking water standards. The water may contain radon gas. The Hickory may produce water with iron concentrations exceeding drinking water standards. (Ashworth and Hopkins, 1995) Water which exceeds a drinking water standard must be treated to meet or exceed the drinking water standard established by the United States Environmental Protection Agency before it may be distributed by a public water supply system. The recharge zone of the aquifer in Burnet County is approximately 18,011 acres. (Figure 5)

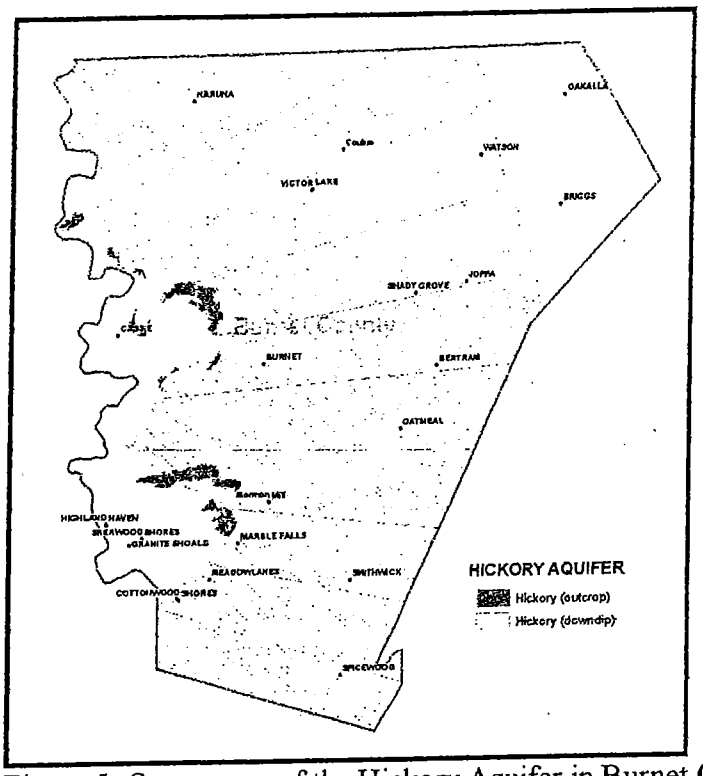


Figure 5, Occurrence of the Hickory Aquifer in Burnet County

Group	Formation	Member	Hydrologic Unit
Fredericksburg	Walnut		Not recognized as a groundwater source
Trinity	Paluxy		Upper Trinity aquifer
	Glen Rose		
	Travis Peak	Hensell Sand	Middle Trinity aquifer
		Cow Creek Limestone	
		Hammett Shale	Not recognized as a groundwater source
		Sligo limestone	Lower Trinity aquifer
		Hosston Sand/Conglomerate	
Bend	Marble Falls Limestone		Marble Falls aquifer
Ellenburger	Honeycut		Ellenburger-San Saba aquifer
	Tanyard		
	Gorman		
Moore Hollow	Wilberns	San Saba Limestone	
	Riley Formation	Hickory Sandstone	Hickory aquifer

Table 1, Relationship of Geologic and Hydrologic Units of Burnet County, after Duffin and Musick, 1991

IV. STATEMENT OF GUIDING PRINCIPLES

The District recognizes that the groundwater resources of Burnet County and the Central Texas region are of vital importance to the many users who are dependant on theses valuable resources. The District will strive to manage and conserve this most valuable resource in a prudent and cost effective manner through education, cooperation and development of a comprehensive understanding of the aquifers. The District's management plan is intended to serve as a tool to focus the thoughts and actions of those given the responsibility for the execution of the District's activities.

V. CRITERIA FOR PLAN CERTIFICATION

A. Planning Horizon

The time period for this plan is 10 years from the date of approval by the TWDB. This plan will be reviewed in five years. The District will consider the necessity to amend the plan and re-adopt the plan with or without amendments as required by TWC 36.1072(e).

Report 350

Changes in Groundwater Conditions in the Edwards and Trinity Aquifers, 1987-1997, for Portions of Bastrop, Bell, Burnet, Lee, Milam, Travis, and Williamson Counties, Texas

November 1999

TEXAS WATER DEVELOPMENT BOARD

TWDB Report 350

shown by the potentiometric surface in Figure 4. From the north-central part of the City of Austin, a moderate southerly component dominates as groundwater generally flows toward the Colorado River.

A comparison of water-level elevations from the winter of 1987 to the winter of 1997 indicates an overall decrease in water levels in the middle to eastern portion of the aquifer (Figure 5). In the late 1980s, water levels in wells located in the eastern section were between 665 to 437 feet above mean sea level (msl). The average water elevation was 625 feet above msl. The same twenty-two wells were re-measured in 1997 to 1998 and found to have an average water-level elevation of 595 feet above msl (an average decrease of 30 feet), with water levels ranging from 671 to 437 feet above msl. Limited well control of the two data sets restricted a full interpretation of drawdown along the far eastern and western fringe of the study area. Of the wells investigated since the initial study was conducted, eleven wells displayed a decrease in water levels between zero and 50 feet, one well had a water-level decrease measuring between 50 and 100 feet, and water levels in another well fell 113 feet in the past decade (Well 58-20-901).

Trinity Group aquifer

Abrupt changes in water-level elevations were not generally observed in the Trinity Group aquifer (Figure 6). The two main reasons for significant drawdown are normally associated with changes in annual rainfall and industrial or public-supply production (Duffin and Musick, 1991). In the unconfined recharge zone (shown in Figure 6 as the darkly shaded area), water levels are primarily influenced by precipitation and to a lesser degree by public-supply production. In the confined portions of the aquifer however, (shown in Figure 6 as the lightly shaded area), drawdown is generally influenced more by public-supply production than by precipitation.

Grouping the wells from Figure 6 by county, the following observations can be made:

Burnet County

57-15-702 (located near the City of Burnet): Water levels remained relatively steady throughout the study period. The water level fluctuated no more than 37 feet between 1966 and 1986, and rose approximately 14 feet between 1987 and 1997.

Travis County

57-40-304 (located in western Travis County): The water level was relatively stable between 1966 and 1986, less than 26 feet of water level fluctuations were observed. The water level dropped 50 feet between 1992 and 1994 and

ATTACHMENT X

ANNUAL SLUDGE REPORT COVER
QUARTERLY SLUDGE REPORT COVER
ADVERSE WEATHER PLAN
TDS STUDY WORK PLAN

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

City of Burnet

(512) 756-6093
FAX (512) 756-8560
www.cityofburnet.com

P.O. Box 1369
1001 Buchanan Drive, Suite 4
Burnet, TX 78611

TCEQ

The City of Burnet WWTP Adverse Weather and Alternative Plan.

The WWTP personnel press sludge approximately one to two days a week normally, then apply the pressed sludge to approved fields that the city owns. During adverse weather we can recycle sludge from the gravity thickener back to the digester. The solids in the digester are normally maintained at a level which allows for three to four weeks or more without having to remove solids from it. If we must remove solids during this time, we have a covered storage area, and drying beds located at the old closed treatment plant that we can store pressed sludge. The fields, as well as the other areas are located adjacent to the WWTP and are assessable without using public roadways. The last alternative would be to have the sludge hauled to a landfill or composting facility.

Richard Harrison
Treatment Supervisor
City of Burnet WWTP
rharrison@cityofburnet.com

Date 10/20/2023

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

MUNICIPLE PERMITS TEAM (MC 148)

WASTEWATER PERMITTING SECTION

Please find enclosed the Annual Sludge Reports for 2022/2023, for the City of Burnet WWTP, permit # WQ0010793002.

Thank you

Richard Harrison

Water / Wastewater Treatment Supervisor

City of Burnet

rharrison@cityofburnet.com 512-756-2402

City of Burnet

(512) 756-6093
FAX (512) 756-8560
www.cityofburnet.com

P.O. Box 1369
1001 Buchanan Drive, Suite 4
Burnet, TX 78611

CITY OF BURNET WWTP

TPDES WQ0010793002

TDS SOURCE IDENTIFICATION AND REDUCTION STUDY WORK PLAN 2020

This work plan will be implemented at the time at which the plant discharges to the receiving stream on 15 out of any 30-day period.

The first action will be sampling of the influent and effluent once per week on Tuesday to be analyzed for TDS to determine a baseline for study. Reduction goals can be determined at that time.

After that point, we will begin sampling at points upstream from the plant at merging points of the collection system. Branches identified as possible major contributors of TDS will be followed further upstream until the most probable sources can be located. Specific locations will be listed as they are determined. Control options will be determined and implemented at that time.

All sampling will be conducted during periods that are representative of normal operating conditions.

The monitoring will continue for a period of two years from the start date.

Data will be compiled, and progress reports will be filed annually by the 31st of December each year.

These reports will be filed with the TCEQ Compliance Monitoring Team and to the TCEQ Standards Implementation Team.

At the conclusion of the study a final report will be included with the next permit renewal.

Due date 10/01/2020

Richard Harrison

Water / Wastewater Treatment Supervisor

City of Burnet

512-470-3003

rharrison@cityofburnet.com

JUNE 10,2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

MUNICIPLE PERMITS TEAM (MC 148)

WASTEWATER PERMITTING SECTION

Please find enclosed the 3RD quarter sludge reports for 2023/2024, for the City of Burnet WWTP, permit # WQ0010793002.

Thank you

Richard Harrison

Water / Wastewater Treatment Supervisor

City of Burnet

rharrison@cityofburnet.com 512-756-2402

ATTACHMENT O

NUTRIENT MANAGEMENT PLAN

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

Waste Utilization and Nutrient Management Plan

Burnet Wastewater Treatment Plant
CR 304
Burnet, TX 78611
512-756-2402

TCEQ Permit Number:
WQ0010793002

Owner
City of Burnet
1001 Buchanan Drive
Burnet, TX 78611
512-756-6093

Operator
Alan Burdell
P.O. Box 1369
Burnet, TX 78611
512-756-2402

Type of Organic Nutrient Management Plan:
Biosolids
located in Burnet County

Prepared By:

James C Thomas
(Signature)
James C. Thomas
Certified Nutrient Management Specialist
Certificate Number = TX20031
Expiration Date = December 31,2019
Thomas Analytical Services, Inc.
11183 State Highway 30
College Station, TX 77845
979-774-7485

This plan is based on:
590 Organic Nutrient Management Plan V 5.0

7/16/19 8:19 PM

Waste Utilization and Nutrient Management Plan

Signature Page Permit WQ0010793002

Plan Prepared by: James C. Thomas Date: 7/16/19
James C. Thomas

Producer's acceptance and agreement: As a representative of the City of Burnet my signature below constitutes agreement with the terms and operating provisions contained in this nutrient management plan. Furthermore, we agree to manage the beneficial land application sites in accordance with the recommendations set forth in this nutrient management plan.

Plan Accepted By: _____ Date: 7/16/19
Crista Goble Bromley,
Mayor, City of Burnet

Waste Utilization and Nutrient Management Plan

EXECUTIVE SUMMARY: Permit #: WQ0010793002

This Nutrient Management Plan has fields that meet NUPs requirements.

This nutrient management plan has been prepared for the City of Burnet in support of their renewal application for the beneficial use and land disposal of biosolids generated from the City of Burnet Wastewater Treatment Plant and solids from the Water Treatment Plant. The permitted area consists of 228.9 acres of which only 109.6 acres will receive solids by means of surface spreading followed by discing. The plan is based on current soil and waste analysis results for fields 1A - 1E. Field 2 has not had any applications made since the previous NMP in 2015 nor have soil samples been collected. However, the Ciry wishes to keep this as an alternate location for use in emergency situations. Since both wastes will be applied to all areas, the volume weighted average nutrient concentrations were calculated and used. Book values for crop yields and crop nutrient contents were used. There are no livestock pastured on the entire site. The City contracts with a local farmer to plant, fertilize, harvest, and remove all crops from all fields except Field #2 by the airport. Using the above assumptions and soil properties taken from the official soil series descriptions, the calculated maximum total amount of biosolids that may be applied to all six application areas is 267.7 dry tons annually. Biosolids will be applied at 65% of the maximum allowed rate which will allow beneficial use of 100% of the toatal annual biosolid production of 170 dry tons. Application rates to field #2 will be zero due to the high phosphorus content of the soil. The biosolid applications will be sufficient to supply the crop needs for phosphorus and potassium; however, an additional 0-105 pounds of N per acre will be needed to achieve the desired yield goals. Since the soils are slighly alkaline, no lime application is required. It is recommended that soil and waste samples be collected and tested annually. The farm manager should also keep careful records of the amounts of hay removed from each field and samples of the hay should be submitted for testing. The soil and crop data can then be used to revise this NMP for 2020 and provide a more accurate calculation of biosolid application rates. Careful adherence to this nutrient management plan will allow the beneficial use of nutrient rich biosolids while protecting our water resources from enviornmental damage resulting from excess nitrogen or phosphorus applications.

LOCATION AND PURPOSE OF THE PLAN

Located in : Burnet County

See plan map for location. The purpose of this plan is to outline the details of land application of biosolids on this land. This plan, when applied, will meet the requirements of the Natural Resources Conservation Service Nutrient Management Standard (590) and Waste Utilization Standard (633). When the appropriate land treatment practices needed to reduce runoff are fully implemented and maintained in each field the plan will provide the more comprehensive benefits of minimizing the affects of the land application of biosolids on the air, soil, water, and animal resources in and around the application area. Annual maximum application rates are determined using **Table 2 & 2a** depending on the current soil test P level and P index result for each field receiving biosolids.

Table 3 provides an estimate of the nutrients removed in the harvested portion of the crop at the planned yield goal for hay, grain, and fiber crops. The values used for grazed crops are the estimated amount of nutrients taken up in the above ground portion of the plants.

Waste Utilization and Nutrient Management Plan

ESTIMATED NUTRIENT AVAILABILITY Permit #: WQ0010793002

Refer to **Table 4** for field specific maximum biosolids application rates. Values in **Table 4** are based on the data in **Table 1**. Application will be based on biosolids analysis. Applying biosolids at **MAXIMUM** rates shown in **Table 4** will result in a more rapid build-up of phosphorus than if applied at lower rates. Phosphorus will build up more rapidly on pastureland than on hayland or cropland, since a much small amount of nutrients are actually removed from the farm by grazing animals. Biosolids may be applied to the same acreage every year, but if the soil test P level exceeds the critical level, or the Texas P Index result changes the rates of application will have to be reduced in accordance with Texas NRCS Nutrient Management Standard (590). This plan is valid only if the annual application of biosolids to the crops listed in **Table 4** does not exceed the per acre rates by more than 10%. If the yield of a crop does not meet the expected goal, the application rate should be adjusted accordingly the following year.

Recommended annual application amounts that are smaller than can physically be applied due to limitation of the application equipment should be doubled and applied to the field every other year. No other P fertilizer may be used the second year, but supplemental N and K2O should be applied, if needed. If the P index critical P level is exceeded, it is recommended that no additional biosolids be applied to those fields until the level is reduced. Biosolids applications should be made at appropriate times to meet crop needs, but may be applied at any time as long as soils are not saturated, snow covered, or frozen, and the annual maximum is not exceeded.

SUPPLEMENTAL NUTRIENTS TO MEET YIELD GOAL

Table 5 shows the estimated amount of nutrients that are applied in pounds per acre for each field where biosolids are applied using per acre amounts shown in **Table 4**. Supplemental nitrogen (N) and potassium (K2O) will be applied to achieve the yield goals noted in **Table 5**, when recommended based on soil analysis and the annual biosolids application does not meet the requirements as detailed in **Table 5.**

Deep soil sampling is recommended on application areas where loamy to clayey soils are present and biosolids have been applied previously. If this deep testing reveals accumulated nitrate N in the root zone, it should be deducted from any supplemental N to be applied to meet the planned yield goal. Sampling in 6 inch increments to a depth of 3 feet is sufficient for most crops.

ADJUSTMENTS TO APPLY LESS THAN THE MAXIMUM RATES

In situations where more land is available than is needed to utilize the maximum application rate on each field, the application rates in **Table 6** can be reduced down to the level that does not exceed the amount of solids available. **Table 7** indicates the amount of nutrients provided and, if needed, the supplemental nutrients which must be applied when the application is based on these reduced rates. The amount of supplemental nutrients in **Table 7** are based on the actual amount of waste available rather than the maximum rate that **"could"** be applied.

The second line from the bottom of **Table 6** on the right has a box that will be **"YES"** or **"NO"**. When the reduced rates uses all solids to be produced in a year, this box will be **"Yes"**. If the percentages are too low, it will be **"No"**. If **"No"**, either more acreage is needed on which to apply the solids or the solids will need to be transported off-site.

Acres of biosolids exclusion zones are noted in **Table 8**. Location of buffers and other exclusion zones are found on the application area map.

Filter Strips will meet the Texas USDA/NRCS standard (393). A minimum 100 foot wide grassed and/or wooded buffer providing at least 70% ground cover will be maintained between the application area and all water courses, ponds, lakes, wetlands, etc.

Riparian Forested Buffers (if used) will meet the Texas USDA/NRCS Standard (391). When planned, a minimum 50 foot wide wooded buffer will be maintained between the application area and the edge of streams, creeks, rivers, etc. to protect water quality, decrease water temperatures, improve aquatic organism habitat, reduce sediment and nutrient loading and reduce bank erosion. Select harvesting within this zone may be done in accordance with guidelines of the Texas Forest Service. If the wooded buffer is only 50 feet wide, there still must be a minimum 100 feet between biosolids application area and stream bank. Another vegetated buffer will be established or maintained to account for the remaining distance. Biosolids will not be applied within 100 feet of any waterway, stream, creek, pond, lake, or wetlands.

The minimum application distance from private or public wells will be 150 feet and 500 feet respectively. Private wells that are located within a field where biosolids are applied and are part of a center pivot irrigation system are exempt from the set-back requirement. The minimum suggested application distance from schools, institutions, and densely populated residential, business, or similar development is 1000 feet.

Biosolids will not be applied to any buffer areas or any frequently flooded areas, as designated by county soil survey.

PLANNED METHOD OF APPLICATION

Biosolids may be surface applied uniformly, injected, or incorporated below the surface of the soil within the root zone of the planned crop. To reduce soil compaction, applications should only be made when soil conditions are favorable. Biosolids should not be spread if heavy rains are forecast to occur within 1 day of a proposed application date.

ODOR MANAGEMENT

The following steps should be taken when spreading biosolids to reduce problems associated with odor.
1. Avoid spreading biosolids when wind will blow odors toward populated areas.
2. Avoid spreading biosolids immediately before weekends or holidays, if people are likely to be engaged in nearby outdoor activities.
3. Avoid spreading biosolids near heavily traveled highways.
4. Make biosolids applications in the morning when the air is warming, rather than in the late afternoon.

BIOSOLIDS TESTING

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling and testing requirements of your permit. For applications not permitted by TCEQ, the biosolids need to be analyzed for percent moisture, total nitrogen, total phosphorus, and total potassium.

BIOSOLIDS STORAGE Permit #: WQ0010793002

Biosolids may be temporarily stockpiled and covered with durable plastic or other suitable tarp material. Stockpiled biosolids must be sited on suitable soil, geology, and topography to prevent contamination of waterways. Runoff from stockpiled biosolids must be retained on-site by use of berms or other adequate structures where there is potential transport of biosolids into waterways.

COLLECTING SOIL SAMPLES FOR ANALYSIS

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling requirements of your permit. If application area is not regulated by TCEQ:

Collect a composite sample for each field (or area of similar soils and management not more than about 40 acres) comprised of 10 - 15 randomly selected cores. Each core should represent 0 - 6 inches below the surface. Thoroughly mix each set of core samples, and select about a pint of the mixture as the sample for analysis. Label each sample for the field that it represents. Request that the samples be analyzed for nitrate nitrogen, available phosphorus, potassium, sodium, magnesium, calcium, sulfur, boron, conductivity, and pH. Also note on the samples that they are from a biosolids application area.

SOIL ANALYSIS

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling requirements of your permit. If application area is not regulated by TCEQ:

A base line soil analysis will be completed for all areas to be used for biosolids application. The area will be tested every year that biosolids are applied to monitor P build up. If soil test values rise to a higher category, i.e., Low to Medium, contact the local Soil and Water Conservation District or USDA/NRCS office to revise the Waste Utilization Plan and to assist in development of a plan to reduce P in the field(s).

RECORD KEEPING

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the record keeping requirements of your permit. If application area is not regulated by TCEQ:

Detailed records should be maintained for all applications of biosolids for a period of at least 5 years. Records should include date, time, location, and amount of application; they could also include weather conditions, estimated wind speed and direction, etc. Keep all soil and biosolids analyses for the same period.

OPERATION AND MAINTENANCE

Application equipment should be maintained in good working order, and it should be calibrated at least once a year, so that the desired rate and amount of biosolids will be applied. Any changes in this system must be discussed with Texas Commission on Environmental Quality (TCEQ) prior to their initiation on permitted sites. If your site is not permitted by TCEQ, contact your local NRCS office for updates and assistance.

Waste Utilization and Nutrient Management Plan

SIGNATURE PAGE WQ0010793002

Plan Prepared by:	**James C. Thomas**	Date:	**7/16/19**
Plan Approved by:		Date:	
Producer Signature:		Date:	

The producer's signature indicates that this plan has been discussed with him/her.
If this plan is not signed by the producer, indicate how the plan was provided to the producer.

Waste Utilization and Nutrient Management Plan

Table 1 - Est. Amount of Waste Allowed for Land Application

Permit #: WQ0010793002

Biosolids Type	Dry tons biosolids produced annually.	Est. Max DRY tons applied annually
Other	**170**	**267.7**

Contact your agronomic consultant, TCEQ or local USDA Natural Resources Conservation Service office, if the application quantities change by more than 10 percent so your plan can be revised.

Estimated Nutrient Availabilty
Solids

		pounds / yr	pounds / ton	
**	**N**	**30,112**	**112.5**	**
	P2O5	**22,560**	**84.3**	
	K2O	**2,056**	**7.7**	

**** Effluent Values Based on Analysis**

**** Solids Values Based on Analysis**

Explanation of Other Biosolids Type:

Combination of wastewater treatment plant sludge from aerobic digestion and water treatment plant solids. Nutrient values based on volume weighted average from Table 2 of TCEQ 10451.

Default values were used on all fields for plant removal of nutrients and yield levels.

Waste Utilization and Nutrient Management Plan

TABLE 2. A Nutrient Management Plan (NMP) is required where Soil Test P Level [1/] is:

- **less than 200 ppm statewide or**
- **or < 350 ppm in arid areas 2/ with a named stream > one mile.**

P – Index Rating	Maximum TMDL Annual P Application Rate [5/]	Maximum Annual P Application	Maximum Biennial Application Rate
Very Low, Low	Annual Nitrogen (N) Requirement	Annual Nitrogen (N) Requirement	2.0 Times Annual N Requirement
Medium	2.0 Times Annual Crop P Requirement [3/]	2.0 Times Annual Crop P Requirement [3/]	2.0 Times Annual N Requirement
High [5]	1.5 Times Annual Crop P Requirement [3/]	1.5 Times Annual Crop P Requirement [3/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Requirement
Very High [5]	1.0 Times Annual Crop P Requirement [3/]	1.0 Times Annual Crop P Requirement [3/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Requirement

TABLE 2a. A Nutrient Utilization Plan (NUP) is required by TCEQ where Soil Test P Level [1/] is:

- **equal to or greater than 200 ppm in non-arid areas [2/] or**
- **equal to or greater than 350 ppm in arid areas [2/] with a named stream greater than one mile or**
- **equal to or greater than 200 ppm in arid areas [2/] with a named stream less than one mile.**

P – Index Rating	Maximum TMDL Annual P Application Rate [5/]	Maximum Annual P Application	Maximum Biennial Application Rate
Very Low, Low	1.0 Times Annual Crop P Removal [4/]	Annual N Crop Removal	2.0 Times Annual N Removal
Medium	1.0 Times Annual Crop P Removal [4/]	1.5 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal
High [5]	1.0 Times Annual Crop P Removal [4/]	1.0 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal
Very High [5]	0.5 Times Annual Crop P Removal [4/]	0.5 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal

Footnotes Applicable to both Tables

1/ Soil test P will be Mehlich III by inductively coupled plasma (ICP).

2/ Non-arid areas, counties receiving => 25 inches annual rainfall, will use the 200 ppm P level while arid areas, counties receiving < 25 inches of annual rainfall, will use the 350 ppm P level. See map in TX Agronomy Technical Note 15, Phosphorus Assessment Tool for Texas, for county designations.

3/ Not to exceed the annual nitrogen requirement rate.

4/ Not to exceed the annual nitrogen removal rate.

5/ When soil test phosphorus levels are ≥ 500 ppm, with a P-Index rating of "High" or "Very High", there will be no additional application of phosphorus to a CMU or field.

Waste Utilization and Nutrient Management Plan

Table 3 - Crop Removal Rates (For Information Only) Permit #: WQ0010793002

LMU or Field No.	Acres	Crop and P Index Level	TCEQ Plan Type	Actual Crop Analysis or Default	Total Est. N Removal lbs/Ac/Yr	Total Est. P_2O_5 Removal lbs/Ac/Yr	Total Est. K_2O Removal lbs/Ac/Yr
1A-Winter	34.5	Oats Hay 2-3 Tons M	NMP	Default	100	37	102
1A-Summe	34.5	Sorg. - Sudan Hay/Graze 7500 # M	NMP	Default	149	57	219
1B	9.0	Coastal 3 Cut Hay VL - L	NMP	Default	238	74	202
1C	30.9	Coastal 3 Cut Hay VL - L	NMP	Default	238	74	202
1D	17.8	Coastal 3 Cut Hay M	NMP	Default	238	74	202
1E	12.1	Coastal 3 Cut Hay M	NMP	Default	238	74	202
2	5.4	Common Grazing 1 AU/6 ac M	NUP	Default	79	18	71

NOTE: When crops are used for grazing, only a portion of the nutrients used by the crop are removed from the field in the live weight gain of the livestock, the remainder is returned to the land in manure and urine. The book "Southern Forages" estimates the N, P, & K removed in 100 pounds live weight gain as follows: **2.5 lbs N, 0.68 lbs P, 0.15 lbs K**

Waste Utilization and Nutrient Management Plan

Table 4 - Maximum Solids Application per Field Permit #: WQ0010793002

Est. Solids Produced Annually (wet tons)	LMU or Field No.	Acres	Crop Management and PI runoff potential	Current Soil Test P Level (ppm)	Max Annual P2O5 lbs/acre	Annual/Biennial	Maximum Solids Allowable Tons/Acre	Maximum Allowable Application Per field (Tons)
0	1A-Winter	34.5	Oats Hay 2-3 Tons M	6	90	A	1.1	37
	1A-Summe	34.5	Sorg. - Sudan Hay/Graze 7500 # M	6	110	A	1.3	45
	1B	9.0	Coastal 3 Cut Hay VL - L	5	225	A	2.7	24
	1C	30.9	Coastal 3 Cut Hay VL - L	5	225	A	2.7	82
	1D	17.8	Coastal 3 Cut Hay M	12	225	A	2.7	47
	1E	12.1	Coastal 3 Cut Hay M	6	225	A	2.7	32
	2	5.4	Common Grazing 1 AU/6 ac M	246	27	A	0.3	0
Total Solids Application Acres								
144.15								
Max. Solids Application Allowable on-site (tons)								
267.7								
Adequate								
Solids to be used off-site (tons)								
0.0								

End of Table 4

Waste Utilization and Nutrient Management Plan

Table 5 - Nutrients Applied/Needs at Maximum Solids Rates Permit #: WQ0010793002

	Nutrients Applied When Application is at Maximum Rates			Supplemental Nutrients Needed When Application is at Maximum Rates			
LMU / Field #	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	Lime T/Ac
1A-Winter	120	90	8	0	0	0	0
1A-Summer	147	110	10	10	0	0	0
1B	300	225	20	0	0	0	0
1C	300	225	20	0	0	0	0
1D	300	225	20	0	0	0	0
1E	300	225	20	0	0	0	0
2	37	27	2	5	0	0	0

Waste Utilization and Nutrient Management Plan

Table 6 - Planned Solids Application Rates Permit #: WQ0010793002

LMU or Field No.	Double crop	Acres	Crop Management and PI runoff potential	Current Soil Test P ppm	Annual / Biennial	Max Rate tons/ac	% of Maximum to apply	Planned Solids tons/ac	Planned Solids per field (tons)
1A-Winter		34.5	Oats Hay 2-3 Tons M	6	A	1.1	65	0.7	23.9
1A-Summer		34.5	Sorg. - Sudan Hay/Graze 7500 # M	6	A	1.3	65	0.8	29.3
1B		9.0	Coastal 3 Cut Hay VL - L	5	A	2.7	65	1.7	15.6
1C		30.9	Coastal 3 Cut Hay VL - L	5	A	2.7	65	1.7	53.5
1D		17.8	Coastal 3 Cut Hay M	12	A	2.7	65	1.7	30.8
1E		12.1	Coastal 3 Cut Hay M	6	A	2.7	65	1.7	20.9
2		5.4	Common Grazing 1 AU/6 ac M	246	A	0.3	0	0.0	0.0
Acres		144.2		Will the planned per acre application rates use all of the Solids?					174.0
268			Tons wet of solids to be used						NO
0				Tons to be used off-site at planned rates					0

Waste Utilization and Nutrient Management Plan

Table 7 - Nutrients Applied/Needed at Planned Solids Rates Permit #: WQ0010793002

Red cells? Proceed to adjustment page and fix.

	Nutrients Applied at Planned Rates			Supplemental Nutrients Needed at Planned Rates			
LMU / Field #	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	Lime T/Ac
1A-Winter	78	58	5	0	0	0	0
1A-Summer	95	72	7	65	0	0	0
1B	195	146	13	105	0	0	0
1C	195	146	13	105	0	0	0
1D	195	146	13	105	0	0	0
1E	195	146	13	105	0	0	0
2	0	0	0	40	0	0	0

Waste Utilization and Nutrient Management Data Entries

General Data

Date :	7/16/2019
Farmer Name :	urnet Wastewater Treatment Plant
County in which the Land is located :	Burnet
Type of Waste Plan :	Biosolids
Is this plan in a TMDL watershed for nutrients? Yes or No :	No
Is any field PERMITTED by TCEQ? Yes or No :	Yes
Permit # :	WQ0010793002

All other entries on General Page appear on the Cover Page

Biosolids Information

Plan Year :	2019	Explain Other:
Biosolid Type :	Other	Combination of wastewater treatment plant sludge from aerobic digestion and water treatment plant solids. Nutrient values based on volume weighted average from Table 2 of TCEQ 10451.
Analysis Date:	3/27/2019	
Nitrogen % From Biosolids Analysis:	7.03	
Phosphorus % From Biosolids Analysis:	1.84	
Potassium % From Biosolids Analysis:	0.32	
Moisture % From Biosolids Analysis:	0.00	
Does this site generate biosolids?	Yes	
If B11 = "Yes", How many dry tons/year?	170.00	

This plan is based on: rganic Nutrient Management Plan V 5.0
Printed on: 7/16/19 8:43 PM

Field and Buffer Entries

Permit #: WQ0010793002

Printed on: 7/16/19 8:43 PM

Plan is based on: 590 Organic Nutrient Management Plar

FS = 393-Filter Strip, FB = 386-Field Border, RFB = 391-Riparian Forest Buffer, OLEA = Other Land Exclusion Areas or non-application areas (i.e. headquarters, freq. flooded areas, wooded areas, water bodies, etc)
NOTE: Field Border (FB) is expressed in ACRES on this spreadsheet, but as LINEAR FEET on the CPO.

Field No.	Total LMU or Field Acres	FS	FB	RFB	OLEA	Total Buffer Acres	Actual Application Acres	This Column Intentionally Left Blank
1A-Winte	43.54		9.02			9.0	34.5	
1A-Summ	43.54		9.02			9.0	34.5	
1B	40.53		31.56			31.6	9.0	
1C	70.66		39.78			39.8	30.9	
1D	38.97		21.2			21.2	17.8	
1E	15.11		3.06			3.1	12.1	
2	20.06		14.62			14.6	5.4	

Soil Test, Crop Information and Plant Analysis Data Entries

Printed on: 7/16/19 8:43 PM Plan is based on: 590 Organic Nutrient Management Plan V 5.0 Permit #: WQ0010793002

Soil Test Analysis										Plant Analysis & Yield (optional) Use Only When Crop Removal is Required			
N (ppm)	P (ppm)	K (ppm)	Lime (enter amt or leave blank)	This column only for Dry Poultry	LMU or Field #	Appl. Area Acres	Crop/Land-Use and P Index Runoff Potential VL - L; M; H; or VH		Plant Analysis (Y / N)	% N	% P	% K	Yield Air Dry Production (lbs/ac/yr)
0.365	5.92	566			1A-Winte	34.5	Oats Hay 2-3 Tons M		N				
0.365	5.92	566			1A-Summe	34.5	Sorg. - Sudan Hay/Graze 7500 # M		N				
0.304	5.44	414			1B	9.0	Coastal 3 Cut Hay VL - L		N				
0.293	5.45	397			1C	30.9	Coastal 3 Cut Hay VL - L		N				
0.302	11.6	522			1D	17.8	Coastal 3 Cut Hay M		N				
0.3	5.68	337			1E	12.1	Coastal 3 Cut Hay M		N				
9.3	246	563			2	5.4	Common Grazing 1 AU/6 ac M		N				

Solids Application Rate Entries

Solids - Set the Planned Application Rates

Permit #: WQ

170		"Wet tons" of solids produced Annually	Will the planned rates use all of the Tons to be used off-site at plann				
LMU or Field No.	Acres	Crop Management and PI runoff potential	Current Soil Test P ppm	Crop P_2O_5 Req.	Annual or Biennial Application Cycle	Maximum Solids Allowable Tons/Ac	Enter % of Maximum Planned to Apply
A-Wint	34.5	Oats Hay 2-3 Tons M	6	#N/A	Annual	1.1	65.0
A-Summ	34.5	Sorg. - Sudan Hay/Graze 7500 # M	6	#N/A	Annual	1.3	65.0
1B	9.0	Coastal 3 Cut Hay VL - L	5	#N/A	Annual	2.7	65.0
1C	30.9	Coastal 3 Cut Hay VL - L	5	#N/A	Annual	2.7	65.0
1D	17.8	Coastal 3 Cut Hay M	12	#N/A	Annual	2.7	65.0
1E	12.1	Coastal 3 Cut Hay M	6	#N/A	Annual	2.7	65.0
2	5.4	Common Grazing 1 AU/6 ac M	246	#N/A	Annual	0.3	0.0

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Plan is based on: 590 Organi

PI Index by Field

PI Summary Report

Printed on: 7/16/19 8:50 PM

This plan is based on: c Nutrient Management Plan V 5.0

Permit #: WQ0010793002

Client Name: Burnet Wastewater Treatment Plant

Planner: James C. Thomas

Date: 7/16/19

Location: Burnet

Rainfall: >25.0 inches

Do Not delete data in this column when editing	LMU or Fields	Crop	Slope	Runoff Curve	Soil Test P Level	Inorganic P_2O_5 Appl Rate	Organic P_2O_5 Appl Rate	Inorganic Method & Timing	Organic Method & Timing	Proximity of Appl to Named Stream	Runoff Class	Soil Erosion	Total Index Points	P Runoff Potential	Soil Test Date:
1	1A-Winter	Oats Hay 2-3 Tons	1.0%	71	1	0	1.5	0	0.5	5	1	3	12	Medium	6/29/18
2	1A-Summer	Sorg. - Sudan Hay/Graze 7500 #	1.0%	71	1	0	1.5	0	0.5	5	1	3	12	Medium	6/29/18
3	1B	Coastal 3 Cut Hay	1.0%	58	1	0	3	0	0.5	1.25	0	1.5	7.25	Very Low - Low	6/29/18
4	1C	Coastal 3 Cut Hay	1-2%	58	1	0	3	0	0.5	1.25	0	1.5	7.25	Very Low - Low	6/29/18
5	1D	Coastal 3 Cut Hay	1-2%	58	1	0	3	0	0.5	10	0	1.5	16	Medium	6/29/18
6	1E	Coastal 3 Cut Hay	1-2%	58	1	0	3	0	0.5	10	0	1.5	16	Medium	6/29/18
7	2	Common Grazing 1 AU/6 ac	2.0%	71	8	0	0.75	0	0.5	1.25	1	3	14.5	Medium	5/11/15
8															

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TABLE 2
Volume Weighted Average (Mean) of Nutrient and Pollutant Concentration

Complete this table if more than one source is land applied at the site.

Directions:

1. For each pollutant, multiply the Pollutant Concentrations from Table 1 by the estimated number of dry tons you expect to apply from each facility.
2. Sum the individual columns. Enter results in last row of the table.
3. Divide the sum of each column by the dry tons sum (bottom of second column). Enter number in the appropriate Volume Weighted Average Box (row below table).
4. Use these final results to complete Appendix A, Step 1.

TCEQ Auth. Number	Est. Dry Tons*	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	TKN	NH_4-N	NO_3-N	P	K
WQ00101793	156.9	719	111	6292	95866	4001	153	897	6841	2165	129599	1092	68	0.13	311	49
PWS 0270001	13.1	390	8	1323	47291	121	1.4	59	166	48	791	20	0.7	16	2	5
Sum	170.0	1109	119	7615	143157	4122	154.4	956	7007	2113	130390	1112	68.7	16.13	313	54
Volume Weighted Average		6.5	0.70	44.8	842	24.2	0.91	5.62	41.2	13.0	767	6.54	0.40	0.09	1.84	0.32

*Total estimated dry tons to be land applied from the source facility.

ATTACHMENT P

TCEQ TRANSPORTER REGISTRATION DOCUMENT

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER REGISTRATION

Registration Number: 21386 **CN600743074** **RN103149746**

Print Date: May 17, 2013

For the Commission

Company: CITY OF BURNET

Regulated Entity: CITY OF BURNET

Registered Since: January 22, 1991
Expiration Date: August 31, 2015
Status: ACTIVE

Organization Type: OTHER GOVERNMENT
County: BURNET
Transport Waste into Texas: NO

TCEQ Region: 11
Transport Waste out of Texas: NO

Physical Address:
TRANSPORTER
1000 BUCHANAN DR BURNET TX 78611
BURNET, TX 78611

Mailing Address:
PO BOX 1369
BURNET, TX 78611-7369

Contact Information

Contact: ALAN BURDELL

Phone: 512-756-2402

Fax: 512-756-0423

E-Mail: aburdell@cityofburnet.com

Sticker Numbers Issued and Listed below will expire on August 31, 2015:

1260 1261 1262 1263 1264 1265

Is your registration which reflects the information submitted on your application to the Register or Renew as a Transporter of cipal Sludge(s) and Similar Wastes. Requirements for transportation are provided in accordance with 30 TAC Chapter 312. Issuance of this registration is not acknowledgement by the TCEQ that your operation is in full compliance with the rules and regulations of the TCEQ. Changes or additions referred to this notice require written notification to the TCEQ. Please keep a copy of this registration in every vehicle transporting sludge and all locations where business is being transacted under this registration.

ATTACHMENT Q

SOIL ANALYSIS

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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

SPL
The Science of Sure

Project
1106882

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed 06/25/2024
16:50

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1106882_r99_09_CoC__1_of_1	SPL Kilgore CoC BUR9 1106882_1_of_1	7
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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307518	*1A*	06/07/2024	07:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 03 (0.5 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.0 grams)
Bottle 07 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 08 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 09 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.2 grams)
Bottle 10 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 11 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 07 (6 grams)
Bottle 12 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 08 (6 grams)
Bottle 13 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 14 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)
Bottle 15 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	09	1123743	06/14/2024	1124373	06/17/2024
EPA 6010B	14	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	09	1123743	06/14/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	14	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	14	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	10	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	13	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307521	*1B*	06/07/2024	07:30:00	06/13/2024

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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 03 (5.0 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 07 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 08 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20 grams)
Bottle 09 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.3 grams)
Bottle 10 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 11 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 07 (6 grams)
Bottle 12 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 08 (6 grams)
Bottle 13 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 14 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	09	1123743	06/14/2024	1124373	06/17/2024
EPA 6010B	14	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	09	1123743	06/14/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	14	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	14	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	10	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	13	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307522	*1C*	06/07/2024	08:00:00	06/13/2024

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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 03 (0.6 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 07 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.2 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	07	1123743	06/14/2024	1124373	06/17/2024
EPA 6010B	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	07	1123743	06/14/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	10	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	08	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	09	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307523	*1D*	06/07/2024	08:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 03 (0.6 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 07 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.4 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.6 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024

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SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307523	*1D*	06/07/2024	08:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 03 (0.6 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 07 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.4 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.6 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6020A	07	1123743	06/14/2024	1124373	06/17/2024
EPA 6010B	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	07	1123743	06/14/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	10	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	08	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	09	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307524	*1E*	06/07/2024	09:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 03 (20.2 grams)
Bottle 07 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.6 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.6 grams)

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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307524	*1E*	06/07/2024	09:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 06 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 03 (20.2 grams)
Bottle 07 Prepared Bottle: ICP Preparation for Metals (Batch 1123743) Volume: 50.00000 mL <== Derived from 01 (1.6 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 06 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.6 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	07	1123743	06/14/2024	1124373	06/17/2024
EPA 6010B	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	07	1123743	06/14/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	10	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	08	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	09	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307525	*2 FIELD #2*	06/07/2024	06:30:00	06/13/2024

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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1123634) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 06 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 07 Prepared Bottle: Mercury Preparation for Metals (Batch 1123946) Volume: 50.00000 mL <== Derived from 02 (0.5 grams)
Bottle 08 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 03 (20.0 grams)
Bottle 09 Prepared Bottle: ICP Preparation for Metals
Bottle 10 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 08 (6 grams)
Bottle 11 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 12 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	04	1123634	06/12/2024	1124268	06/14/2024
EPA 6020A	09	1124373	06/17/2024	1124373	06/17/2024
EPA 6010B	12	1125395	06/24/2024	1125622	06/25/2024
EPA 6020A	09	1124803	06/19/2024	1124803	06/19/2024
EPA 7471B 2	05	1123946	06/14/2024	1124259	06/17/2024
EPA 6010C	12	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	12	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	10	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	11	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307532	*1A*	06/07/2024	07:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024

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1

SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307532	*1A*	06/07/2024	07:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6010B	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010C	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	08	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	06	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	07	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307538	*1B*	06/07/2024	07:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.7 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024
EPA 6010B	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010C	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	08	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024

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SAMPLE CROSS REFERENCE

Project
1106882

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307538	*1B*	06/07/2024	07:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124232) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.7 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	06	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	07	1124232	06/17/2024	1124497	06/18/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307539	*1C*	06/07/2024	08:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 08 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (13.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024
EPA 6010B	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010C	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	10	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	06	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	07	1124382	06/18/2024	1124865	06/20/2024

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Sample	Sample ID	Taken	Time	Received
2307539	*1C*	06/07/2024	08:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 08 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (13.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307540	*1D*	06/07/2024	08:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.1 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024
EPA 6010B	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010C	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	08	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	06	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	07	1124382	06/18/2024	1124865	06/20/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

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Sample	Sample ID	Taken	Time	Received
2307541	*1E*	06/07/2024	09:00:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 02 (20.2 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 03 (5 grams)
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
Bottle 08 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)
Bottle 09 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.4 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024
EPA 6010B	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010C	08	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	08	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	06	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	07	1124382	06/18/2024	1124865	06/20/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

Sample	Sample ID	Taken	Time	Received
2307542	*2 FIELD #2*	06/07/2024	06:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 03 (20.0 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 07 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	05	1124013	06/14/2024	1124323	06/14/2024
EPA 6010B	10	1125395	06/24/2024	1125622	06/25/2024

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Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Sample	Sample ID	Taken	Time	Received
2307542	*2 FIELD #2*	06/07/2024	06:30:00	06/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass 4 oz w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: Special Preparation (Batch 1123943) Volume: 200.00000 mL <== Derived from 03 (20.0 grams)
Bottle 05 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 07 Prepared Bottle: 2 mL Glass vial (Batch 1124013) Volume: 50.00000 mL <== Derived from 02 (5 grams)
Bottle 08 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1124086) Volume: 6.00000 mL <== Derived from 04 (6 grams)
Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1124382) Volume: 20.00000 mL <== Derived from 02 (1.0 grams)
Bottle 10 Prepared Bottle: MPe Extraction (Batch 1125395) Volume: 15.00000 mL <== Derived from 01 (1.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6010C	10	1125395	06/24/2024	1125622	06/25/2024
EPA 6010B	10	1125395	06/24/2024	1125615	06/25/2024
EPA 9050	01	1124083	06/14/2024	1124083	06/14/2024
Calculation			06/24/2024		06/24/2024
EPA 350.1, Rev. 2.0	08	1124086	06/14/2024	1125314	06/24/2024
EPA 351.2 2	09	1124382	06/18/2024	1124860	06/20/2024
SM2540 G-1997 /MOD	01	1124142	06/13/2024	1124142	06/13/2024
EPA 9045D 4	01	1123955	06/14/2024	1123955	06/14/2024

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BUR9-C

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City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed: 06/25/2024

RESULTS

Sample Results

2307518 1A — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 07:00:00

Calculation — Prepared: 06/24/2024 09:32:21 — Calculated 06/24/2024 09:32:21 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.310 *	mg/kg	0.310			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.242 *	mg/kg	0.242	P		10

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1160 *	mg/kg	24.1		7727-37-9	13

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 10:49:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	11900 *	mg/kg	30.5		7440-70-2	14
z	Magnesium, Mehlich-3 extract	495 *	mg/kg	30.5		7439-95-4	14
z	Potassium, Mehlich-3 extract	807 *	mg/kg	30.5		7440-09-7	14

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 11:28:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	24.4 *	mg/kg	6.10			14

* Dry Weight Basis

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City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed: 06/25/2024

2307518 1A

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | City of Burnet | PO:
Taken: 06/07/2024 07:00:00

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 10:49:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<15.3 *	mg/kg	15.3		7440-23-5	14

* Dry Weight Basis

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124373 06/17/2024 19:42:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	3.20 *	mg/kg	1.27		7440-38-2	09
NELAC	Cadmium, Total	<0.255 *	mg/kg	0.255		7440-43-9	09
NELAC	Lead, Total	13.8 *	mg/kg	0.255		7439-92-1	09
NELAC	Molybdenum, Total	<0.764 *	mg/kg	0.764		7439-98-7	09
NELAC	Selenium, Total	0.319 *	mg/kg	0.255		7782-49-2	09

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124803 06/19/2024 17:24:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	11.1 *	mg/kg	0.255		7440-47-3	09
NELAC	Copper, Total	7.49 *	mg/kg	0.255		7440-50-8	09
NELAC	Nickel, Total	9.85 *	mg/kg	0.255		7440-02-0	09
NELAC	Zinc, Total	25.6 *	mg/kg	2.55		7440-66-6	09

* Dry Weight Basis

EPA 7471B 2 — Prepared: 1123946 06/14/2024 07:45:00 — Analyzed 1124259 06/17/2024 11:03:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.0319 *	mg/kg	0.0118		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.4 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 — JK1

Parameter	Results	Units	RL	Flags	CAS	Bottle

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BUR9-C

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City of Burnet
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1001 Buchanan Dr. Suite 4
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Printed: 06/25/2024

2307518 1A — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 07:00:00

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	91.4	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1123634 06/13/2024 03:43:00 — Analyzed 1124268 06/14/2024 14:29:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	0.851 *	mg/kg	0.274		14797-55-8	04

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	82.5	%	0.010			01

2307521 1B — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 07:30:00

Calculation — Prepared: 06/24/2024 09:32:21 — Calculated 06/24/2024 09:32:21 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.322 *	mg/kg	0.322			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.252 *	mg/kg	0.252	P		10

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle

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1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Printed: 06/25/2024

2307521 1B

Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/07/2024 07:30:00

EPA 351.2 2 Prepared: 1124232 06/17/2024 11:20:17 Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1800 *	mg/kg	25.2		7727-37-9	13

* Dry Weight Basis

EPA 6010B Prepared: 1125395 06/24/2024 14:00:00 Analyzed 1125622 06/25/2024 10:55:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	14300 *	mg/kg	32.0		7440-70-2	14
z	Magnesium, Mehlich-3 extract	770 *	mg/kg	32.0		7439-95-4	14
z	Potassium, Mehlich-3 extract	1070 *	mg/kg	32.0		7440-09-7	14

EPA 6010B Prepared: 1125395 06/24/2024 14:00:00 Analyzed 1125615 06/25/2024 11:34:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	135 *	mg/kg	6.41			14

* Dry Weight Basis

EPA 6010C Prepared: 1125395 06/24/2024 14:00:00 Analyzed 1125622 06/25/2024 10:55:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	71.8 *	mg/kg	16.1		7440-23-5	14

* Dry Weight Basis

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124373 06/17/2024 19:47:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	3.24 *	mg/kg	1.21		7440-38-2	09
NELAC	Cadmium, Total	<0.241 *	mg/kg	0.241		7440-43-9	09
NELAC	Lead, Total	15.3 *	mg/kg	0.241		7439-92-1	09
NELAC	Molybdenum, Total	<0.724 *	mg/kg	0.724		7439-98-7	09
NELAC	Selenium, Total	0.454 *	mg/kg	0.241		7782-49-2	09

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124803 06/19/2024 17:38:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	21.0 *	mg/kg	0.241		7440-47-3	09
NELAC	Copper, Total	36.7 *	mg/kg	0.241		7440-50-8	09
NELAC	Nickel, Total	18.8 *	mg/kg	0.241		7440-02-0	09

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Printed: 06/25/2024

2307521 **1B** Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/07/2024 07:30:00

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124803 06/19/2024 17:38:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Zinc, Total	59.3 *	mg/kg	2.41		7440-66-6	09

* Dry Weight Basis

EPA 7471B 2 Prepared: 1123946 06/14/2024 07:45:00 Analyzed 1124259 06/17/2024 11:05:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.058 *	mg/kg	0.0126		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 Prepared: 1123955 06/14/2024 09:17:00 Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.5 @ 20 C	SU			12408-02-5	01

EPA 9050 Prepared: 1124083 06/14/2024 09:17:00 Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	97.3	umhos/cm			CONDSOL2:1	01

EPA 9056 Prepared: 1123634 06/13/2024 03:43:00 Analyzed 1124268 06/14/2024 14:53:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	1.14 *	mg/kg	0.284		14797-55-8	04

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1124142 06/13/2024 17:25:00 Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	79.1	%	0.010			01

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2307522 1C

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | City of Burnet | PO:
Taken: 06/07/2024 08:00:00

Calculation — Prepared: 06/24/2024 09:32:21 — Calculated 06/24/2024 09:32:21 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.282 *	mg/kg	0.282			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.221 *	mg/kg	0.221			08

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	768 *	mg/kg	21.5		7727-37-9	09

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 10:58:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	5760 *	mg/kg	27.3		7440-70-2	10
z	Magnesium, Mehlich-3 extract	292 *	mg/kg	27.3		7439-95-4	10
z	Potassium, Mehlich-3 extract	631 *	mg/kg	27.3		7440-09-7	10

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 11:37:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	142 *	mg/kg	5.47			10

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 10:58:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<13.7 *	mg/kg	13.7		7440-23-5	10

* Dry Weight Basis

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Received: 06/13/2024

Solid & Chemical Materials Collected by: Client City of Burnet PO:
Taken: 06/07/2024 08:00:00

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124373 06/17/2024 19:51:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	3.54 *	mg/kg	1.21		7440-38-2	07
NELAC	Cadmium, Total	0.276 *	mg/kg	0.241		7440-43-9	07
NELAC	Lead, Total	20.3 *	mg/kg	0.241		7439-92-1	07
NELAC	Molybdenum, Total	<0.722 *	mg/kg	0.722		7439-98-7	07
NELAC	Selenium, Total	0.252 *	mg/kg	0.241		7782-49-2	07

EPA 6020A Prepared: 1123743 06/14/2024 12:30:00 Analyzed 1124803 06/19/2024 17:42:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	6.75 *	mg/kg	0.241		7440-47-3	07
NELAC	Copper, Total	5.95 *	mg/kg	0.241		7440-50-8	07
NELAC	Nickel, Total	5.47 *	mg/kg	0.241		7440-02-0	07
NELAC	Zinc, Total	25.6 *	mg/kg	2.41		7440-66-6	07

* Dry Weight Basis

EPA 7471B 2 Prepared: 1123946 06/14/2024 07:45:00 Analyzed 1124259 06/17/2024 11:07:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.0155 *	mg/kg	0.0101		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 Prepared: 1123955 06/14/2024 09:17:00 Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.1 @ 20 C	SU			12408-02-5	01

EPA 9050 Prepared: 1124083 06/14/2024 09:17:00 Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	116	umhos/cm			CONDSOL2:1	01

EPA 9056 Prepared: 1123634 06/13/2024 03:43:00 Analyzed 1124268 06/14/2024 15:17:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	2.06 *	mg/kg	0.252		14797-55-8	04

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Taken: 06/07/2024 08:00:00

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	89.6	%	0.010			01

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Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 08:30:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.300 *	mg/kg	0.300			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.235 *	mg/kg	0.235			08

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1910 *	mg/kg	23.6		7727-37-9	09

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:02:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	8390 *	mg/kg	28.3		7440-70-2	10
z	Magnesium, Mehlich-3 extract	331 *	mg/kg	28.3		7439-95-4	10
z	Potassium, Mehlich-3 extract	778 *	mg/kg	28.3		7440-09-7	10

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Solid & Chemical Materials | Collected by: Client | City of Burnet | PO:
Taken: 06/07/2024 08:30:00

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 11:41:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	19.9 *	mg/kg	5.66			10

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:02:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<14.1 *	mg/kg	14.1		7440-23-5	10

* Dry Weight Basis

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124373 06/17/2024 19:56:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	<1.06 *	mg/kg	1.06		7440-38-2	07
NELAC	Cadmium, Total	<0.212 *	mg/kg	0.212		7440-43-9	07
NELAC	Lead, Total	<0.212 *	mg/kg	0.212		7439-92-1	07
NELAC	Molybdenum, Total	<0.635 *	mg/kg	0.635		7439-98-7	07
NELAC	Selenium, Total	<0.212 *	mg/kg	0.212		7782-49-2	07

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124803 06/19/2024 17:47:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	8.83 *	mg/kg	0.212		7440-47-3	07
NELAC	Copper, Total	7.46 *	mg/kg	0.212		7440-50-8	07
NELAC	Nickel, Total	7.46 *	mg/kg	0.212		7440-02-0	07
NELAC	Zinc, Total	30.8 *	mg/kg	2.12		7440-66-6	07

* Dry Weight Basis

EPA 7471B 2 — Prepared: 1123946 06/14/2024 07:45:00 — Analyzed 1124259 06/17/2024 11:10:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.0213 *	mg/kg	0.0106		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Taken: 06/07/2024 08:30:00

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.5 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	87.3	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1123634 06/13/2024 03:43:00 Analyzed 1124268 06/14/2024 15:40:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	4.74 *	mg/kg	0.268		14797-55-8	04

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	84.4	%	0.010			01

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Received: 06/13/2024

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Taken: 06/07/2024 09:00:00

Calculation — Prepared: 06/24/2024 09:32:22 Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.309 *	mg/kg	0.309			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.242 *	mg/kg	0.242			08

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Taken: 06/07/2024 09:00:00

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1270 *	mg/kg	24.1		7727-37-9	09

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:05:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	10800 *	mg/kg	28.4		7440-70-2	10
z	Magnesium, Mehlich-3 extract	477 *	mg/kg	28.4		7439-95-4	10
z	Potassium, Mehlich-3 extract	839 *	mg/kg	28.4		7440-09-7	10

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 11:44:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	12.2 *	mg/kg	5.69			10

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:05:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	64.1 *	mg/kg	14.2		7440-23-5	10

* Dry Weight Basis

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124373 06/17/2024 20:01:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	2.84 *	mg/kg	0.978		7440-38-2	07
NELAC	Cadmium, Total	0.201 *	mg/kg	0.195		7440-43-9	07
NELAC	Lead, Total	13.8 *	mg/kg	0.195		7439-92-1	07
NELAC	Molybdenum, Total	<0.587 *	mg/kg	0.587		7439-98-7	07
NELAC	Selenium, Total	0.486 *	mg/kg	0.195		7782-49-2	07

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124803 06/19/2024 17:51:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	10.9 *	mg/kg	0.195		7440-47-3	07
NELAC	Copper, Total	7.26 *	mg/kg	0.195		7440-50-8	07

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Taken: 06/07/2024 09:00:00

EPA 6020A — Prepared: 1123743 06/14/2024 12:30:00 — Analyzed 1124803 06/19/2024 17:51:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nickel, Total	9.55 *	mg/kg	0.195		7440-02-0	07
NELAC	Zinc, Total	24.1 *	mg/kg	1.95		7440-66-6	07

* Dry Weight Basis

EPA 7471B 2 — Prepared: 1123946 06/14/2024 07:45:00 — Analyzed 1124259 06/17/2024 11:12:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.0209 *	mg/kg	0.0119		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.5 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	109	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1123634 06/13/2024 03:43:00 — Analyzed 1124268 06/14/2024 16:04:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	0.918 *	mg/kg	0.276		14797-55-8	04

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	81.9	%	0.010			01

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2307525 2 FIELD #2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 06:30:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.301 *	mg/kg	0.301			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.235 *	mg/kg	0.235			10

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1240 *	mg/kg	22.9		7727-37-9	11

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:08:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	8910 *	mg/kg	29.4		7440-70-2	12
z	Magnesium, Mehlich-3 extract	300 *	mg/kg	29.4		7439-95-4	12
z	Potassium, Mehlich-3 extract	772 *	mg/kg	29.4		7440-09-7	12

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 11:57:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	14.6 *	mg/kg	5.88			12

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:08:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<14.7 *	mg/kg	14.7		7440-23-5	12

* Dry Weight Basis

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Printed: 06/25/2024

2307525 2 FIELD #2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 06:30:00

EPA 6020A — Prepared: 1124373 06/17/2024 20:05:00 — Analyzed 1124373 06/17/2024 20:05:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	3.05 *	mg/kg	1.29		7440-38-2	09
NELAC	Cadmium, Total	<0.258 *	mg/kg	0.258		7440-43-9	09
NELAC	Lead, Total	10.8 *	mg/kg	0.258		7439-92-1	09
NELAC	Molybdenum, Total	<0.774 *	mg/kg	0.774		7439-98-7	09
NELAC	Selenium, Total	0.472 *	mg/kg	0.258		7782-49-2	09

EPA 6020A — Prepared: 1124803 06/19/2024 17:56:00 — Analyzed 1124803 06/19/2024 17:56:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	9.07 *	mg/kg	0.258		7440-47-3	09
NELAC	Copper, Total	6.80 *	mg/kg	0.258		7440-50-8	09
NELAC	Nickel, Total	7.51 *	mg/kg	0.258		7440-02-0	09
NELAC	Zinc, Total	22.0 *	mg/kg	2.58		7440-66-6	09

* Dry Weight Basis

EPA 7471B 2 — Prepared: 1123946 06/14/2024 07:45:00 — Analyzed 1124259 06/17/2024 11:14:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.0682 *	mg/kg	0.0116		7439-97-6	05

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.6 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	104	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1123634 06/13/2024 03:43:00 — Analyzed 1124268 06/14/2024 16:28:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	1.16 *	mg/kg	0.266		14797-55-8	04

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Printed: 06/25/2024

2307525 2 FIELD #2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — City of Burnet — PO:
Taken: 06/07/2024 06:30:00

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	85.0	%	0.010			01

2307532 1A — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 07:00:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.311 *	mg/kg	0.311			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.243 *	mg/kg	0.243			06

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	856 *	mg/kg	24.1		7727-37-9	07

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:21:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	13200 *	mg/kg	29.8		7440-70-2	08
z	Magnesium, Mehlich-3 extract	527 *	mg/kg	29.8		7439-95-4	08
z	Potassium, Mehlich-3 extract	726 *	mg/kg	29.8		7440-09-7	08

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Printed: 06/25/2024

2307532 1A

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 07:00:00

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:00:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	9.91 *	mg/kg	5.94			08

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:21:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<14.9 *	mg/kg	14.9		7440-23-5	08

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.8 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 — JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	78.6	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 — Analyzed 1124323 06/14/2024 18:26:00 — NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	1.04 *	mg/kg	0.276		14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	82.0	%	0.010			01

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Printed: 06/25/2024

2307538 1B

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 07:30:00

Calculation — Prepared: 06/24/2024 10:08:20 — Calculated 06/24/2024 10:08:20 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.322 *	mg/kg	0.322			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.252 *	mg/kg	0.252			06

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124232 06/17/2024 11:20:17 — Analyzed 1124497 06/18/2024 10:23:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	616 *	mg/kg	24.9		7727-37-9	07

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:24:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	16900 *	mg/kg	28.1		7440-70-2	08
z	Magnesium, Mehlich-3 extract	812 *	mg/kg	28.1		7439-95-4	08
z	Potassium, Mehlich-3 extract	828 *	mg/kg	28.1		7440-09-7	08

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:03:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	23.5 *	mg/kg	5.61			08

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:24:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	99.9 *	mg/kg	14.0		7440-23-5	08

* Dry Weight Basis

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Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 07:30:00

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.6 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	105	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 Analyzed 1124323 06/14/2024 18:49:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	6.70 *	mg/kg	0.288		14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	78.6	%	0.010			01

2307539 1C

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 08:00:00

Calculation — Prepared: 06/24/2024 09:32:22 Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.288 *	mg/kg	0.288			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.225 *	mg/kg	0.225			06

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Printed: 06/25/2024

2307539 1C

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:

Taken: 06/07/2024 08:00:00

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124382 06/18/2024 08:56:33 — Analyzed 1124865 06/20/2024 07:50:00 — AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	439 *	mg/kg	22.4	P	7727-37-9	07

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:28:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	6100 *	mg/kg	27.6		7440-70-2	10
z	Magnesium, Mehlich-3 extract	373 *	mg/kg	27.6		7439-95-4	10
z	Potassium, Mehlich-3 extract	584 *	mg/kg	27.6		7440-09-7	10

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:07:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	48.0 *	mg/kg	5.51			10

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:28:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	14.0 *	mg/kg	13.8		7440-23-5	10

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.7 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 — JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	117	umhos/cm			CONDSOL2:1	01

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2307539 1C — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 08:00:00

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 — Analyzed 1124323 06/14/2024 19:13:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	0.419 *	mg/kg	0.256		14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	88.4	%	0.010			01

2307540 1D — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 08:30:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.304 *	mg/kg	0.304			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.237 *	mg/kg	0.237			06

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124382 06/18/2024 08:56:33 — Analyzed 1124865 06/20/2024 07:50:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1290 *	mg/kg	23.6		7727-37-9	07

* Dry Weight Basis

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Printed: 06/25/2024

2307540 1D

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 08:30:00

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:31:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	10300 *	mg/kg	29.2		7440-70-2	08
z	Magnesium, Mehlich-3 extract	292 *	mg/kg	29.2		7439-95-4	08
z	Potassium, Mehlich-3 extract	668 *	mg/kg	29.2		7440-09-7	08

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:10:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	8.08 *	mg/kg	5.83			08

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:31:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<14.6 *	mg/kg	14.6		7440-23-5	08

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.8 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 — JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	90.8	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 — Analyzed 1124323 06/14/2024 19:36:00 — NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	0.599 *	mg/kg	0.269		14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2307540 1D — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 08:30:00

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	84.0	%	0.010			01

2307541 1E — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 09:00:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.314 *	mg/kg	0.314			
	* Dry Weight Basis						

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.245 *	mg/kg	0.245			06
	* Dry Weight Basis						

EPA 351.2 2 — Prepared: 1124382 06/18/2024 08:56:33 — Analyzed 1124865 06/20/2024 07:50:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	1350 *	mg/kg	24.4		7727-37-9	07
	* Dry Weight Basis						

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:34:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	13900 *	mg/kg	30.8		7440-70-2	08
z	Magnesium, Mehlich-3 extract	483 *	mg/kg	30.8		7439-95-4	08
z	Potassium, Mehlich-3 extract	775 *	mg/kg	30.8		7440-09-7	08

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Printed: 06/25/2024

2307541 1E

Received: 06/13/2024

Solid & Chemical Materials | Collected by: Client | SPL Kilgore | PO:
Taken: 06/07/2024 09:00:00

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:13:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	8.63 *	mg/kg	6.16			08

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:34:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	88.1 *	mg/kg	15.4		7440-23-5	08

* Dry Weight Basis

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.6 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 — JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	101	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 — Analyzed 1124323 06/14/2024 20:00:00 — NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	1.90 *	mg/kg	0.278		14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	81.2	%	0.010			01

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Printed: 06/25/2024

2307542 2 FIELD #2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 06:30:00

Calculation — Prepared: 06/24/2024 09:32:22 — Calculated 06/24/2024 09:32:22 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen(Calc)(KCl)	<0.305 *	mg/kg	0.305			

* Dry Weight Basis

EPA 350.1, Rev. 2.0 — Prepared: 1124086 06/14/2024 15:14:35 — Analyzed 1125314 06/24/2024 07:37:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen(KCl)	<0.238 *	mg/kg	0.238			08

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1124382 06/18/2024 08:56:33 — Analyzed 1124860 06/20/2024 09:45:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	305 *	mg/kg	5.90		7727-37-9	09

* Dry Weight Basis

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:40:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Calcium, Mehlich-3 extract	9110 *	mg/kg	29.0		7440-70-2	10
z	Magnesium, Mehlich-3 extract	300 *	mg/kg	29.0		7439-95-4	10
z	Potassium, Mehlich-3 extract	806 *	mg/kg	29.0		7440-09-7	10

EPA 6010B — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125615 06/25/2024 12:20:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus, Mehlich-3 extract	13.7 *	mg/kg	5.80			10

* Dry Weight Basis

EPA 6010C — Prepared: 1125395 06/24/2024 14:00:00 — Analyzed 1125622 06/25/2024 11:40:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Sodium, Mehlich-3 extract	<14.5 *	mg/kg	14.5		7440-23-5	10

* Dry Weight Basis

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2307542 2 FIELD #2 — Received: 06/13/2024

Solid & Chemical Materials — Collected by: Client — SPL Kilgore — PO:
Taken: 06/07/2024 06:30:00

EPA 9045D 4 — Prepared: 1123955 06/14/2024 09:17:00 — Analyzed 1123955 06/14/2024 09:17:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH Measured in Water/2:1 water:s	8.3 @ 20 C	SU			12408-02-5	01

EPA 9050 — Prepared: 1124083 06/14/2024 09:17:00 — Analyzed 1124083 06/14/2024 09:17:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Conductivity (soluble) (2:1)	160	umhos/cm			CONDSOL2:1	01

EPA 9056 — Prepared: 1124013 06/14/2024 11:26:12 — Analyzed 1124323 06/14/2024 20:24:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	1.17 *	mg/kg	0.269	PD	14797-55-8	05

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1124142 06/13/2024 17:25:00 — Analyzed 1124142 06/13/2024 17:25:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	84.0	%	0.010			01

Sample Preparation

2307518 1A — Received: 06/13/2024

06/07/2024

Prepared: 12/31/1899 13:11:36 — Calculated 13:11:36 CAL

z	Environmental Fee (per Project)	Verified					

Black 84.2 — Prepared: 1123943 06/14/2024 08:39:28 — Analyzed 1123943 06/14/2024 08:39:28 SRJ

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Printed: 06/25/2024

2307518 1A

Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.03**	**grams**								02
	Calculation	*Prepared:*		*06/25/2024*	*16:18:50*	*Calculated*		*06/25/2024*	*16:18:50*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**									
	EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC	**Solid Metals Digestion**	**50/1.19**	**grams**								01
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**								06
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0055**	**grams**								02
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5149**	**grams**								03
	EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:43:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:43:00*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**								02

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2307518 1A — Received: 06/13/2024

06/07/2024

Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.49**	**grams**							01
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**								

2307521 1B — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.11**	**grams**							02
Calculation	*Prepared:*		*06/25/2024*	*16:18:50*	*Calculated*		*06/25/2024*	*16:18:50*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**								
EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC	**Solid Metals Digestion**	**50/1.31**	**grams**							01
EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**							06

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2307521 1B — Received: 06/13/2024

06/07/2024

	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0029**	**grams**								02
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5027**	**grams**								02
	EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:47:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:47:00*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.02**	**grams**								03
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.48**	**grams**								01
	SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**									

2307522 1C — Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.19**	**grams**								02

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2307522 1C

Received: 06/13/2024

06/07/2024

	Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
	EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*
NELAC	**Solid Metals Digestion**	**50/1.16**		**grams**						01
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*
NELAC	**Ammonia Distillation (KCl)**	**6/6**		**grams**						06
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*
NELAC	**TKN Block Digestion**	**20/1.0379**		**grams**						02
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*
NELAC	**Solid Metals Digestion Hg**	**50/.5519**		**grams**						03
	EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:35:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:35:00*	*PEV*
	Water Extract-Ion Chromatography	**50/5.0**		**grams**						02
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*
z	**Mehlich-3 Extraction**	**15/1.53**		**grams**						01

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2307522 1C — Received: 06/13/2024

06/07/2024

SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC **Total Solids Start Code**	**Started**									

2307523 1D — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z **KCl Extraction**	**200/20.16**	**grams**								02
Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
As Received to Dry Weight Basis	**Calculated**									
EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC **Solid Metals Digestion**	**50/1.40**	**grams**								01
EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC **Ammonia Distillation (KCl)**	**6/6**	**grams**								06
EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC **TKN Block Digestion**	**20/1.0034**	**grams**								02

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2307523 1D — Received: 06/13/2024

06/07/2024

EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5613**	**grams**							03
EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:37:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:37:00*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**							02
Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.57**	**grams**							01
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**								

2307524 1E — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.16**	**grams**							03
Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**								

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Printed: 06/25/2024

2307524 1E

Received: 06/13/2024

06/07/2024

	EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC	**Solid Metals Digestion**	**50/1.56**	**grams**								01
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**								06
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0153**	**grams**								02
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	**Solid Metals Digestion Hg**	**50/.5128**	**grams**								02
	EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:38:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:38:00*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**								03
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.61**	**grams**								01
	SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**									

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Printed: 06/25/2024

2307525 2 FIELD #2 Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	KCl Extraction	200/20.02	grams								03
	Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	Calculated									
	EPA 200.2 2.8	*Prepared:*	*1123743*	*06/14/2024*	*12:30:00*	*Analyzed*	*1123743*	*06/14/2024*	*12:30:00*	*TES*	
NELAC	Solid Metals Digestion	50/1.14	grams								01
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	Ammonia Distillation (KCl)	6/6	grams								08
	EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	TKN Block Digestion	20/1.0252	grams								02
	EPA 7471B	*Prepared:*	*1123946*	*06/14/2024*	*07:45:00*	*Analyzed*	*1123946*	*06/14/2024*	*07:45:00*	*HLT*	
NELAC	Solid Metals Digestion Hg	50/.5081	grams								02
	EPA 9056	*Prepared:*	*1123634*	*06/13/2024*	*03:40:00*	*Analyzed*	*1123634*	*06/13/2024*	*03:40:00*	*PEV*	
	Water Extract-Ion Chromatography	50/5.0	grams								03

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Project
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City of Burnet
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1001 Buchanan Dr. Suite 4
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Printed: 06/25/2024

2307525 2 FIELD #2 — Received: 06/13/2024

06/07/2024

Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.50**	**grams**							01
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**								

2307532 1A — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.06**	**grams**							02
Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**								
EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**							04
EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC	**TKN Block Digestion**	**20/1.0097**	**grams**							02

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2307532 1A — Received: 06/13/2024

06/07/2024

EPA 9056	*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**							03
Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.54**	**grams**							01
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**								

2307538 1B — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.18**	**grams**							02
Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**								
EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**							04

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2307538 1B — Received: 06/13/2024

06/07/2024

EPA 351.2 2	*Prepared:*	*1124232*	*06/17/2024*	*11:20:17*	*Analyzed*	*1124232*	*06/17/2024*	*11:20:17*	*SRJ*	
NELAC **TKN Block Digestion**	**20/1.0214**	**grams**								02
EPA 9056	*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*	
Water Extract-Ion Chromatography	**50/5.0**	**grams**								03
Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z **Mehlich-3 Extraction**	**15/1.70**	**grams**								01
SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC **Total Solids Start Code**	**Started**									

2307539 1C — Received: 06/13/2024

06/07/2024

Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z **KCl Extraction**	**200/20.14**	**grams**								02
Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
As Received to Dry Weight Basis	**Calculated**									

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2307539 1C — Received: 06/13/2024

06/07/2024

	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**							04
	EPA 351.2 2	*Prepared:*	*1124382*	*06/18/2024*	*08:56:33*	*Analyzed*	*1124382*	*06/18/2024*	*08:56:33*	*MEG*
NELAC	**TKN Block Digestion**	**20/1.0076**	**grams**							03
	EPA 9056	*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*
	Water Extract-Ion Chromatography	**50/5.0**	**grams**							03
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*
z	**Mehlich-3 Extraction**	**15/1.54**	**grams**							01
	SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**								

2307540 1D — Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*
z	**KCl Extraction**	**200/20.08**	**grams**							02

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Printed: 06/25/2024

2307540 1D — Received: 06/13/2024

06/07/2024

Calculation		*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*
	As Received to Dry Weight Basis	Calculated								
EPA 350.2, Rev. 2.0		*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*
NELAC	Ammonia Distillation (KCl)	6/6	grams							04
EPA 351.2 2		*Prepared:*	*1124382*	*06/18/2024*	*08:56:33*	*Analyzed*	*1124382*	*06/18/2024*	*08:56:33*	*MEG*
NELAC	TKN Block Digestion	20/1.0088	grams							03
EPA 9056		*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*
	Water Extract-Ion Chromatography	50/5.0	grams							03
Mehlich-3 Extraction		*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*
z	Mehlich-3 Extraction	15/1.53	grams							01
SM 2540 G-1997		*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*
NELAC	Total Solids Start Code	Started								

2307541 1E — Received: 06/13/2024

06/07/2024

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Printed: 06/25/2024

2307541 1E

Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	**KCl Extraction**	**200/20.15**	**grams**								02
	Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	**Calculated**									
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	**Ammonia Distillation (KCl)**	**6/6**	**grams**								04
	EPA 351.2 2	*Prepared:*	*1124382*	*06/18/2024*	*08:56:33*	*Analyzed*	*1124382*	*06/18/2024*	*08:56:33*	*MEG*	
NELAC	**TKN Block Digestion**	**20/1.0091**	**grams**								03
	EPA 9056	*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**								03
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	**Mehlich-3 Extraction**	**15/1.50**	**grams**								01
	SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**									

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Printed: 06/25/2024

2307542 2 FIELD #2 Received: 06/13/2024

06/07/2024

	Black 84.2	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1123943*	*06/14/2024*	*08:39:28*	*SRJ*	
z	KCl Extraction	200/20.02	grams								03
	Calculation	*Prepared:*		*06/25/2024*	*16:18:51*	*Calculated*		*06/25/2024*	*16:18:51*	*CAL*	
	As Received to Dry Weight Basis	Calculated									
	EPA 350.2, Rev. 2.0	*Prepared:*	*1123943*	*06/14/2024*	*08:39:28*	*Analyzed*	*1124086*	*06/14/2024*	*15:14:35*	*SRJ*	
NELAC	Ammonia Distillation (KCl)	6/6	grams								04
	EPA 351.2 2	*Prepared:*	*1124382*	*06/18/2024*	*08:56:33*	*Analyzed*	*1124382*	*06/18/2024*	*08:56:33*	*MEG*	
NELAC	TKN Block Digestion	20/1.0077	grams								02
	EPA 9056	*Prepared:*	*1124013*	*06/14/2024*	*11:26:12*	*Analyzed*	*1124013*	*06/14/2024*	*11:26:12*	*PEV*	
	Water Extract-Ion Chromatography	50/5.0	grams								02
	Mehlich-3 Extraction	*Prepared:*	*1125395*	*06/24/2024*	*14:00:00*	*Analyzed*	*1125395*	*06/24/2024*	*14:00:00*	*TES*	
z	Mehlich-3 Extraction	15/1.54	grams								01
	SM 2540 G-1997	*Prepared:*	*1123892*	*06/13/2024*	*17:25:00*	*Analyzed*	*1123892*	*06/13/2024*	*17:25:00*	*BEK*	
NELAC	Total Solids Start Code	Started									

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Printed: 06/25/2024

2310285 Transport

Received: 06/24/2024

06/07/2024

Prepared:	06/24/2024	15:33:20	Calculated	06/24/2024	15:33:20	CAL

Sampling/Transport	Verified

Qualifiers:

D - Duplicate RPD was higher than expected

P - Spike recovery outside control limits due to matrix effects.

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 1124497 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1124232	ND	0.378	1.00	mg/kg	126460877

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.38	5.00	mg/kg	108	90.0 - 110	126460868
Total Kjeldahl Nitrogen	5.39	5.00	mg/kg	108	90.0 - 110	126460876
Total Kjeldahl Nitrogen	5.35	5.00	mg/kg	107	90.0 - 110	126460887
Total Kjeldahl Nitrogen	5.36	5.00	mg/kg	107	90.0 - 110	126460896
Total Kjeldahl Nitrogen	5.37	5.00	mg/kg	107	90.0 - 110	126460897
Total Kjeldahl Nitrogen	5.41	5.00	mg/kg	108	90.0 - 110	126460898
Total Kjeldahl Nitrogen	5.45	5.00	mg/kg	109	90.0 - 110	126460899
Total Kjeldahl Nitrogen	5.46	5.00	mg/kg	109	90.0 - 110	126460900
Total Kjeldahl Nitrogen	5.41	5.00	mg/kg	108	90.0 - 110	126460901
Total Kjeldahl Nitrogen	5.32	5.00	mg/kg	106	90.0 - 110	126460903
Total Kjeldahl Nitrogen	5.32	5.00	mg/kg	106	90.0 - 110	126460904

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Total Kjeldahl Nitrogen	2307155	4110	4630	mg/kg	11.9		20.0
Total Kjeldahl Nitrogen	2307161	5990	1910	mg/kg	103	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126460867

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1124232	92.8	92.0	100	90.0 - 110	92.8	92.0	mg/kg	0.866	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2307155	3260	4630	9780	mg/kg	0	80.0 - 120	126460882	*
Total Kjeldahl Nitrogen	2307161	7200	1910	9910	mg/kg	53.4	80.0 - 120	126460885	*

Analytical Set 1124860 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1124382	ND	0.378	1.00	mg/kg	126469503

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.34	5.00	mg/kg	107	90.0 - 110	126469495
Total Kjeldahl Nitrogen	5.35	5.00	mg/kg	107	90.0 - 110	126469502
Total Kjeldahl Nitrogen	5.33	5.00	mg/kg	107	90.0 - 110	126469510

Email: Kilgore.ProjectManagement@spllabs.com

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2307539	361	409	mg/kg	12.5	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.44	5.00	mg/kg	109	90.0 - 110	126469494

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1124382	101	99.3	100	90.0 - 110	101	99.3	mg/kg	1.70	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2307539	45.5	409	154	mg/kg	0	80.0 - 120	126469508	*

Analytical Set 1124865 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1124382	ND	0.378	1.00	mg/kg	126469619

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126469616
Total Kjeldahl Nitrogen	5.22	5.00	mg/kg	104	90.0 - 110	126469617
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126469618
Total Kjeldahl Nitrogen	5.24	5.00	mg/kg	105	90.0 - 110	126469623
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126469628

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2307539	338	388	mg/kg	13.8	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.29	5.00	mg/kg	106	90.0 - 110	126469615

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1124382	99.4	97.5	100	90.0 - 110	99.4	97.5	mg/kg	1.93	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2307539	43.7	388	154	mg/kg	0	80.0 - 120	126469625	*

Analytical Set 1125314 — EPA 350.1, Rev. 2.0

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen(KCl)	1124086	ND	0.0102	0.020	mg/kg	126480001

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QUALITY CONTROL

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen(KCl)	2.19	2.00	mg/kg	110	90.0 - 110	126480000
Ammonia Nitrogen(KCl)	2.13	2.00	mg/kg	106	90.0 - 110	126480009
Ammonia Nitrogen(KCl)	2.18	2.00	mg/kg	109	90.0 - 110	126480020
Ammonia Nitrogen(KCl)	2.06	2.00	mg/kg	103	90.0 - 110	126480022

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen(KCl)	2307518	ND	ND	mg/kg		20.0
Ammonia Nitrogen(KCl)	2307521	ND	ND	mg/kg		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen(KCl)	2.18	2.00	mg/kg	109	90.0 - 110	126479999

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen(KCl)	1124086	2.18	2.15	2.00	90.0 - 110	109	108	mg/kg	1.39	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen(KCl)	2307518	23.1	ND	2.00	mg/kg	1160	80.0 - 120	126480006	*
Ammonia Nitrogen(KCl)	2307521	21.9	ND	2.00	mg/kg	1100	80.0 - 120	126480010	*

Analytical Set 1124142 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1124142	0.0001			grams	126450317

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2307462	69.5	69.7	%	0.287	20.0
Total Solids for Dry Wt Conversi	2307521	79.0	79.1	%	0.127	20.0
Total Solids for Dry Wt Conversi	2307542	84.3	84.0	%	0.357	20.0

Analytical Set 1124268 — EPA 9056

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen	2.30	2.26	mg/kg	102	90.0 - 110	126454695
Nitrate-Nitrogen	2.33	2.26	mg/kg	103	90.0 - 110	126454707

Analytical Set 1124323 — EPA 9056

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen	1124013	ND	0.00185	0.0226	mg/kg	126455338

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen	2.33	2.26	mg/kg	103	90.0 - 110	126455337
Nitrate-Nitrogen	2.32	2.26	mg/kg	103	90.0 - 110	126455347
Nitrate-Nitrogen	2.47	2.26	mg/kg	109	90.0 - 110	126455348
Nitrate-Nitrogen	2.30	2.26	mg/kg	102	90.0 - 110	126455351

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen	1124013	1.06	1.14	1.13	75.0 - 120	93.8	101	mg/kg	7.27	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nitrate-Nitrogen	2307542	1.19	1.14	0.982	2.26	80.0 - 120	9.20 *	6.99 *	mg/kg	27.3 *	20.0

Analytical Set 1124259 — EPA 7471B 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury	1123946	ND	0.0000419	0.0001	mg/kg	126454389

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00497	0.005	mg/kg	99.4	90.0 - 110	126454387
Mercury	0.00499	0.005	mg/kg	99.8	90.0 - 110	126454388
Mercury	0.00455	0.005	mg/kg	91.0	90.0 - 110	126454396
Mercury	0.00517	0.005	mg/kg	103	90.0 - 110	126454405
Mercury	0.00533	0.005	mg/kg	107	90.0 - 110	126454406

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0202	0.02	mg/kg	101	90.0 - 110	126454386

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0048	0.005	mg/kg	96.0	90.0 - 110	126454385

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury	1123946	0.00925	0.00958	0.010	78.6 - 104	92.5	95.8	mg/kg	3.51	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	2307348	0.954	0.931	0.0334	0.911	74.3 - 109	95.8	93.4	mg/kg	2.53	25.0
Mercury	2307525	0.970	0.948	0.058	0.983	74.3 - 109	92.7	90.4	mg/kg	2.44	25.0

Analytical Set 1124373 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1123743	ND	0.000917	0.005	mg/kg	126458140

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cadmium, Total	1123743	ND	0.00011	0.001	mg/kg	126458140
Lead, Total	1123743	ND	0.000262	0.001	mg/kg	126458140
Molybdenum, Total	1123743	ND	0.000865	0.003	mg/kg	126458140
Selenium, Total	1123743	ND	0.000353	0.001	mg/kg	126458140

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0508	0.05	mg/kg	102	90.0 - 110	126458143
Arsenic, Total	0.0493	0.05	mg/kg	98.6	90.0 - 110	126458150
Arsenic, Total	0.0486	0.05	mg/kg	97.2	90.0 - 110	126458159
Cadmium, Total	0.0529	0.05	mg/kg	106	90.0 - 110	126458143
Cadmium, Total	0.0505	0.05	mg/kg	101	90.0 - 110	126458150
Cadmium, Total	0.0503	0.05	mg/kg	101	90.0 - 110	126458159
Lead, Total	0.0543	0.05	mg/kg	109	90.0 - 110	126458143
Lead, Total	0.0524	0.05	mg/kg	105	90.0 - 110	126458150
Lead, Total	0.0528	0.05	mg/kg	106	90.0 - 110	126458159
Molybdenum, Total	0.0532	0.05	mg/kg	106	90.0 - 110	126458143
Molybdenum, Total	0.0512	0.05	mg/kg	102	90.0 - 110	126458150
Molybdenum, Total	0.050	0.05	mg/kg	100	90.0 - 110	126458159
Selenium, Total	0.0529	0.05	mg/kg	106	90.0 - 110	126458143
Selenium, Total	0.0535	0.05	mg/kg	107	90.0 - 110	126458150
Selenium, Total	0.0505	0.05	mg/kg	101	90.0 - 110	126458159

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.048	0.05	mg/kg	96.0	90.0 - 110	126458072
Cadmium, Total	0.0492	0.05	mg/kg	98.4	90.0 - 110	126458072
Lead, Total	0.0498	0.05	mg/kg	99.6	90.0 - 110	126458072
Molybdenum, Total	0.0484	0.05	mg/kg	96.8	90.0 - 110	126458072
Selenium, Total	0.0457	0.05	mg/kg	91.4	90.0 - 110	126458072

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1123743	2.56	2.48	2.50	80.0 - 120	102	99.2	mg/kg	3.17	20.0
Cadmium, Total	1123743	1.33	1.29	1.25	80.0 - 120	106	103	mg/kg	3.05	20.0
Lead, Total	1123743	2.69	2.60	2.50	80.0 - 120	108	104	mg/kg	3.40	20.0
Molybdenum, Total	1123743	2.67	2.54	2.50	80.0 - 120	107	102	mg/kg	4.99	20.0
Selenium, Total	1123743	2.62	2.54	2.50	80.0 - 120	105	102	mg/kg	3.10	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2306904	40.2	38.5	1.71	40.3	67.5 - 123	93.9	89.7	mg/kg	4.52	20.0
Cadmium, Total	2306904	21.0	20.1	0.151	20.2	86.3 - 114	102	97.3	mg/kg	4.41	20.0
Lead, Total	2306904	43.9	42.2	3.64	40.3	78.8 - 123	98.2	94.0	mg/kg	4.31	20.0
Molybdenum, Total	2306904	33.5	32.2	1.47	40.3	62.9 - 137	78.1	75.0	mg/kg	4.14	20.0
Selenium, Total	2306904	34.0	33.0	0.756	40.3	63.9 - 122	81.1	78.6	mg/kg	3.05	20.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2307344	11.1	22.2	0.206	12.3	67.5 - 123	87.9	177 *	mg/kg	67.5 *	20.0
Cadmium, Total	2307344	6.24	13.0	0.00221	6.15	86.3 - 114	100	209 *	mg/kg	70.3 *	20.0
Lead, Total	2307344	12.7	24.7	0.187	12.3	78.8 - 123	101	198 *	mg/kg	64.8 *	20.0
Molybdenum, Total	2307344	10.5	22.1	0.018	12.3	62.9 - 137	84.5	178 *	mg/kg	71.2 *	20.0
Selenium, Total	2307344	10.9	22.6	0.0592	12.3	63.9 - 122	87.4	182 *	mg/kg	70.1 *	20.0

Analytical Set 1124803 EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1123743	0.000862	0.000409	0.001	mg/kg	126468182
Copper, Total	1123743	0.000753	0.000242	0.001	mg/kg	126468182
Nickel, Total	1123743	ND	0.000287	0.001	mg/kg	126468182
Zinc, Total	1123743	ND	0.00479	0.010	mg/kg	126468182

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0498	0.05	mg/kg	99.6	90.0 - 110	126468181
Chromium, Total	0.0489	0.05	mg/kg	97.8	90.0 - 110	126468188
Chromium, Total	0.0501	0.05	mg/kg	100	90.0 - 110	126468195
Chromium, Total	0.0528	0.05	mg/kg	106	90.0 - 110	126468203
Copper, Total	0.0491	0.05	mg/kg	98.2	90.0 - 110	126468181
Copper, Total	0.0486	0.05	mg/kg	97.2	90.0 - 110	126468188
Copper, Total	0.0495	0.05	mg/kg	99.0	90.0 - 110	126468195
Copper, Total	0.0513	0.05	mg/kg	103	90.0 - 110	126468203
Nickel, Total	0.0517	0.05	mg/kg	103	90.0 - 110	126468181
Nickel, Total	0.0519	0.05	mg/kg	104	90.0 - 110	126468188
Nickel, Total	0.0531	0.05	mg/kg	106	90.0 - 110	126468195
Nickel, Total	0.0546	0.05	mg/kg	109	90.0 - 110	126468203
Nickel, Total	0.0535	0.05	mg/kg	107	90.0 - 110	126468247
Nickel, Total	0.0517	0.05	mg/kg	103	90.0 - 110	126468256
Zinc, Total	0.0524	0.05	mg/kg	105	90.0 - 110	126468181
Zinc, Total	0.0522	0.05	mg/kg	104	90.0 - 110	126468188
Zinc, Total	0.0535	0.05	mg/kg	107	90.0 - 110	126468195
Zinc, Total	0.0547	0.05	mg/kg	109	90.0 - 110	126468203

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.052	0.05	mg/kg	104	90.0 - 110	126468146
Copper, Total	0.0521	0.05	mg/kg	104	90.0 - 110	126468146
Nickel, Total	0.0546	0.05	mg/kg	109	90.0 - 110	126468146
Zinc, Total	0.0536	0.05	mg/kg	107	90.0 - 110	126468146

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1123743	2.71	2.62	2.50	80.0 - 120	108	105	mg/kg	3.38	20.0
Copper, Total	1123743	2.47	2.43	2.50	80.0 - 120	98.8	97.2	mg/kg	1.63	20.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nickel, Total	1123743	2.65	2.60	2.50	80.0 - 120	106	104	mg/kg	1.90	20.0
Zinc, Total	1123743	2.70	2.63	2.50	80.0 - 120	108	105	mg/kg	2.63	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2306904	45.8	45.0	6.23	40.3	80.1 - 122	96.5	94.6	mg/kg	2.04	20.0
Copper, Total	2306904	97.2	97.6	47.7	40.3	40.4 - 145	121	122	mg/kg	0.805	20.0
Nickel, Total	2306904	43.5	43.4	5.03	40.3	76.5 - 121	93.8	93.6	mg/kg	0.260	20.0
Zinc, Total	2306904	138	138	78.8	40.3	28.6 - 157	144	144	mg/kg	0	20.0
Copper, Total	2307344	12.5	24.4	1.03	12.3	40.4 - 145	92.5	188 *	mg/kg	68.3 *	20.0
Nickel, Total	2307344	13.1	25.6	0.783	12.3	76.5 - 121	99.3	200 *	mg/kg	67.3 *	20.0
Zinc, Total	2307344	15.4	27.5	2.91	12.3	28.6 - 157	101	198 *	mg/kg	65.3 *	20.0

Analytical Set 1125615 — EPA 6010B

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus, Mehlich-3 extract	1125395	ND	0.100	0.100	mg/kg	126487697

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	0.984	1.00	mg/kg	98.4	90.0 - 110	126487689
Phosphorus, Mehlich-3 extract	0.983	1.00	mg/kg	98.3	90.0 - 110	126487696
Phosphorus, Mehlich-3 extract	1.01	1.00	mg/kg	101	90.0 - 110	126487704
Phosphorus, Mehlich-3 extract	1.01	1.00	mg/kg	101	90.0 - 110	126487713

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Phosphorus, Mehlich-3 extract	2307518	21.7	20.1	mg/kg	7.66	20.0
Phosphorus, Mehlich-3 extract	2307541	7.44	7.01	mg/kg	5.95	20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	24.8	25.0	mg/kg	99.2	95.0 - 105	126487687

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	1.01	1.00	mg/kg	101	90.0 - 110	126487688

Analytical Set 1125622 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Calcium, Mehlich-3 extract	1125395	ND	0.284	0.500	mg/kg	126488081
Magnesium, Mehlich-3 extract	1125395	ND	0.284	0.500	mg/kg	126488081
Potassium, Mehlich-3 extract	1125395	ND	0.284	0.500	mg/kg	126488081
Sodium, Mehlich-3 extract	1125395	ND	0.00912	0.250	mg/kg	126488081

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium, Mehlich-3 extract	24.8	25.0	mg/kg	99.2	90.0 - 110	126488069
Calcium, Mehlich-3 extract	24.7	25.0	mg/kg	98.8	90.0 - 110	126488080
Calcium, Mehlich-3 extract	24.6	25.0	mg/kg	98.4	90.0 - 110	126488089
Calcium, Mehlich-3 extract	24.6	25.0	mg/kg	98.4	90.0 - 110	126488097
Calcium, Mehlich-3 extract	24.5	25.0	mg/kg	98.0	90.0 - 110	126488111
Calcium, Mehlich-3 extract	24.5	25.0	mg/kg	98.0	90.0 - 110	126488119
Magnesium, Mehlich-3 extract	25.0	25.0	mg/kg	100	90.0 - 110	126488069
Magnesium, Mehlich-3 extract	24.8	25.0	mg/kg	99.2	90.0 - 110	126488080
Magnesium, Mehlich-3 extract	24.7	25.0	mg/kg	98.8	90.0 - 110	126488089
Magnesium, Mehlich-3 extract	24.7	25.0	mg/kg	98.8	90.0 - 110	126488097
Potassium, Mehlich-3 extract	26.3	25.0	mg/kg	105	90.0 - 110	126488069
Potassium, Mehlich-3 extract	25.4	25.0	mg/kg	102	90.0 - 110	126488080
Potassium, Mehlich-3 extract	25.9	25.0	mg/kg	104	90.0 - 110	126488089
Potassium, Mehlich-3 extract	26.7	25.0	mg/kg	107	90.0 - 110	126488097
Sodium, Mehlich-3 extract	24.5	25.0	mg/kg	98.0	90.0 - 110	126488069
Sodium, Mehlich-3 extract	24.4	25.0	mg/kg	97.6	90.0 - 110	126488080
Sodium, Mehlich-3 extract	24.3	25.0	mg/kg	97.2	90.0 - 110	126488089
Sodium, Mehlich-3 extract	24.3	25.0	mg/kg	97.2	90.0 - 110	126488097

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Calcium, Mehlich-3 extract	2307518	9590	9800	mg/kg	2.17	20.0
Magnesium, Mehlich-3 extract	2307518	409	408	mg/kg	0.245	20.0
Potassium, Mehlich-3 extract	2307518	654	666	mg/kg	1.82	20.0
Sodium, Mehlich-3 extract	2307518	12.0	12.3	mg/kg	2.47	20.0
Calcium, Mehlich-3 extract	2307541	11600	11300	mg/kg	2.62	20.0
Magnesium, Mehlich-3 extract	2307541	404	392	mg/kg	3.02	20.0
Potassium, Mehlich-3 extract	2307541	635	629	mg/kg	0.949	20.0
Sodium, Mehlich-3 extract	2307541	70.4	71.5	mg/kg	1.55	20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium, Mehlich-3 extract	50.1	50.0	mg/kg	100	95.0 - 105	126488063
Magnesium, Mehlich-3 extract	50.0	50.0	mg/kg	100	95.0 - 105	126488063
Potassium, Mehlich-3 extract	50.1	50.0	mg/kg	100	95.0 - 105	126488063
Sodium, Mehlich-3 extract	51.2	50.0	mg/kg	102	95.0 - 105	126488063

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium, Mehlich-3 extract	25.1	25.0	mg/kg	100	90.0 - 110	126488067
Magnesium, Mehlich-3 extract	25.1	25.0	mg/kg	100	90.0 - 110	126488067
Potassium, Mehlich-3 extract	26.6	25.0	mg/kg	106	90.0 - 110	126488067
Sodium, Mehlich-3 extract	24.7	25.0	mg/kg	98.8	90.0 - 110	126488067

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File

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LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium, Mehlich-3 extract	97.1	100	mg/kg	97.1	90.0 - 110	126488064
Magnesium, Mehlich-3 extract	99.3	100	mg/kg	99.3	90.0 - 110	126488064
Potassium, Mehlich-3 extract	94.0	100	mg/kg	94.0	90.0 - 110	126488064
Sodium, Mehlich-3 extract	108	100	mg/kg	108	90.0 - 110	126488064

Analytical Set 1123955 — EPA 9045D 4

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
pH Measured in Water/2:1 water:s	2307518	8.50	8.40	SU	1.18	20.0
pH Measured in Water/2:1 water:s	2307541	8.50	8.60	SU	1.17	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
pH Measured in Water/2:1 water:s	1123955	6.09	6.00	SU	102	90.0 - 110	126447003
pH Measured in Water/2:1 water:s	1123955	8.04	8.00	SU	100	90.0 - 110	126447004
pH Measured in Water/2:1 water:s	1123955	6.09	6.00	SU	102	90.0 - 110	126447016
pH Measured in Water/2:1 water:s	1123955	8.05	8.00	SU	101	90.0 - 110	126447017
pH Measured in Water/2:1 water:s	1123955	6.09	6.00	SU	102	90.0 - 110	126447021
pH Measured in Water/2:1 water:s	1123955	8.03	8.00	SU	100	90.0 - 110	126447022

Analytical Set 1124083 — EPA 9050

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Conductivity (soluble) (2:1)	1124083	0.912			umhos/cm	126449719

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Conductivity (soluble) (2:1)	2307518	81.0	91.4	umhos/cm	12.1	20.0
Conductivity (soluble) (2:1)	2307541	100	101	umhos/cm	0.995	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Conductivity (soluble) (2:1)	13500	12900	umhos/cm	105	90.0 - 110	126449722

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Conductivity (soluble) (2:1)	1124083	1420	1410	umhos/cm	101	90.0 - 110	126449720
Conductivity (soluble) (2:1)	1124083	100	100	umhos/cm	100	90.0 - 110	126449721
Conductivity (soluble) (2:1)	1124083	1420	1410	umhos/cm	101	90.0 - 110	126449734
Conductivity (soluble) (2:1)	1124083	1390	1410	umhos/cm	98.6	90.0 - 110	126449738

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

Recover% is Recovery Percent: result / known * 100%

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

BUR9-C

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

Project
1106882

Printed 06/25/2024

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); 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.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); ICV - Initial Calibration Verification; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LDR - Linear Dynamic Range Standard

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

CHAIN OF CUSTODY

05/30/2024 Page 1 of 3

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
105

Phone 512/470-3003

PO Number

Annual Soil - 0-6"

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sampler Printed Name DAVID JORDAN

Sampler Affiliation Operator

Sampler Signature

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

Ana-Lab # (Lab Only)	Sample ID	Bottles	Date	Time	Notes
2307518	1A	3	6/7/24	07:00	
2307521	1B	3	6/7/24	07:30	
2307522	1C	3	6/7/24	08:00	
2307523	1D	3	6/7/24	08:30	
2307524	1E	3	6/7/24	09:00	
2307525	2 Field #2	3	6/7/24	06:30	

1 Glass Qt w/Teflon lined lid

*Pm	Phosphorus, Mehlich-3 extract	EPA 6010B (180 days)
*Mgn	Magnesium, Mehlich-3 extract	EPA 6010B CAS:7439-95-4 (180 days)
*Kn	Potassium, Mehlich-3 extract	EPA 6010B CAS:7440-09-7 (180 days)
*Can	Calcium, Mehlich-3 extract	EPA 6010B CAS:7440-70-2 (180 days)
*Nan	Sodium, Mehlich-3 extract	EPA 6010C CAS:7440-23-5 (180 days)
*MPe	Mehlich-3 Extraction	Mehlich-3 Extraction (180 days)

1 Unpreserved

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

CHAIN OF CUSTODY

05/30/2024 Page 3 of 3

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
105

Phone 512/470-3003

Annual Soil - 0-6"

Date Time	Relinquished		Received	
6/12/24	Printed Name DAVID JORDAN	Affiliation OPERATOR	Printed Name	Affiliation SPL
1225	Signature		Signature	
6/12/24	Printed Name William Wade	Affiliation SPL	Printed Name FedEx	Affiliation
1700	Signature		Signature	
6/13/24	Printed Name FedEx	Affiliation	Printed Name Ashley Vas	Affiliation
	Signature		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	

Sample Recieved 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

ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 12JUN24
ACTWGT: 75.00 LB
CAD: 104384799/INET4730
DIMS: 24x14x14 IN
BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

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

583J3/6CA9/9AE3

FedEx Express
E
J242024032601uv

THU - 13 JUN 5:00P
STANDARD OVERNIGHT

TRK# 0201 7767 5810 0516

AH GGGA

75662
TX-US SHV

6/13 1030 Anu
te Time Tech
mp: 0.6 0.7 C
erm#: 6443 Corr Fact: 0.1 C

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.
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CHAIN OF CUSTODY

05/30/2024 Page 1 of 2

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
106

Phone 512/470-3003

PO Number

Annual Soil - 6-24"

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sampler Printed Name DAVID JORDAN

Sampler Affiliation Operator

Sampler Signature

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

Ana-Lab # (Lab Only)	Sample ID	Bottles	Date	Time	Notes
2307532	1A	3	6/7/24	07:00	
2307538	1B	3	6/7/24	07:30	
2307539	1C	3	6/7/24	08:00	
2307540	1D	3	6/7/24	08:30	
2307541	1E	3	6/7/24	09:00	
2307542	2 Field #2	3	6/7/24	06:30	

1 Glass Qt w/Teflon lined lid

*Pm	Phosphorus, Mehlich-3 extract	EPA 6010B (180 days)
*Mgn	Magnesium, Mehlich-3 extract	EPA 6010B CAS:7439-95-4 (180 days)
*Kn	Potassium, Mehlich-3 extract	EPA 6010B CAS:7440-09-7 (180 days)
*Can	Calcium, Mehlich-3 extract	EPA 6010B CAS:7440-70-2 (180 days)
*Nan	Sodium, Mehlich-3 extract	EPA 6010C CAS:7440-23-5 (180 days)
*MPe	Mehlich-3 Extraction	Mehlich-3 Extraction (180 days)

1 Unpreserved

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

CHAIN OF CUSTODY

05/30/2024 Page 2 of 2

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9 -C
106

Phone 512/470-3003

Annual Soil - 6-24"

	NH4K	Ammonium Nitrogen(Calc)(KCl)	Calculation (28.0 days)

2 Glass 4 oz w/Teflon lined lid

	*KCL	KCl Extraction	Black 84.2 (180 days)
NELAC	NHaK	Ammonia Nitrogen(KCl)	EPA 350.1, Rev. 2.0 (28.0 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)
NELAC	pHLZ	pH Measured in Water/2:1 water:s	EPA 9045D 4 CAS:12408-02-5 (180 days)
NELAC	CONZ	Conductivity (soluble) (2:1)	EPA 9050 CAS:CONDSOL2:1 (180 days)
NELAC	!N3S	Nitrate-Nitrogen	EPA 9056 CAS:14797-55-8 (28.0 days)
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

Date Time	Relinquished		Received	
6/12/24	Printed Name DAVID JORDAN	Affiliation OPERATOR	Printed Name	Affiliation SPL
1225	Signature		Signature	
6/12/24	Printed Name William Ward	Affiliation SPL	Printed Name FedEx	Affiliation
1700	Signature		Signature	
6/13/24	Printed Name FedEx	Affiliation	Printed Name Ashley Vasquez - SPL, Inc.	Affiliation
	Signature		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	

Sample Recieved 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

ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 12JUN24
ACTWGT: 75.00 LB
CAD: 104384799/INET4730
DIMS: 24x14x14 IN
BILL SENDER

TO SPL KILGORE
ANA-LAB CORP.
2600 DUDLEY RD.

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

583J3/6CA9/9AE3

FedEx Express
J242024032601uv

TRK# 0201 7767 5810 0516

THU - 13 JUN 5:00P
STANDARD OVERNIGHT

AH GGGA

75662
TX-US SHV

6/13 1030 ANW
te Time Tech
mp: 0.6 0.7 C
erm#: 6443 Corr Fact: 0.1 C

After printing this label:
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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.

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1106882 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

Printed 05/30/2024 Page 1 of 1

City of Burnet
Richard Harrison
1001 Buchanan Dr. Suite 4
Burnet, TX 78611

BUR9-C
116

Lab Number _____
PO Number _____
Phone 512/470-3003

Transport

☐ Hand Delivered by Client to Region or LAB

P1106882

Matrix: Non-Potable Water

Sample Collection Start
Date: 6/7/24 Time: 1225
Sampler Printed Name: William Ward
Sampler Affiliation: SPL
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 Z -- No bottle required

P125 Sampling/Transport

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
6/7/24	1700	Printed Name: William Ward - SPL, Inc.	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		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 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

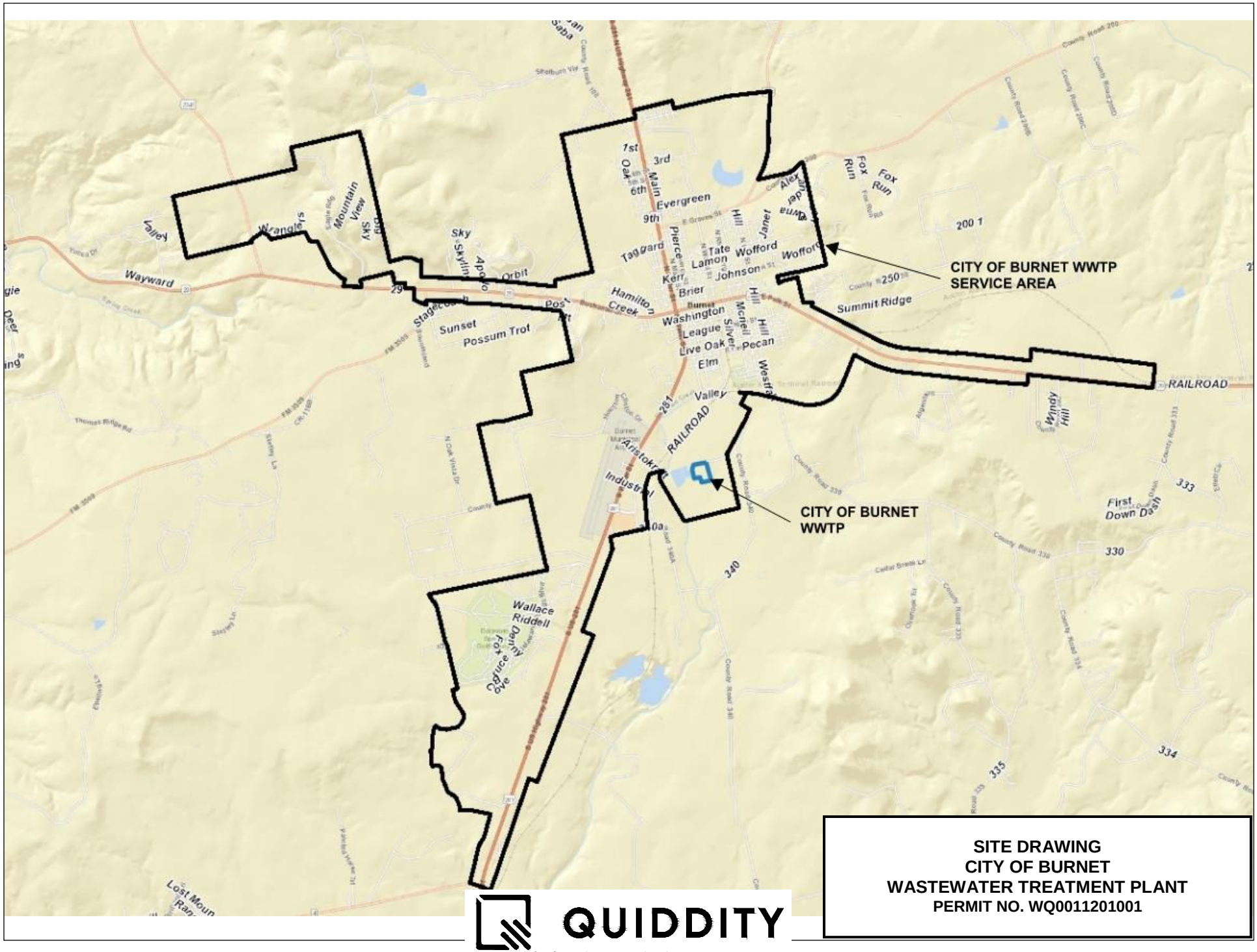
ATTACHMENT G

SERVICE AREA MAP

CITY OF BURNET
WASTEWATER TREATMENT PLANT

SEPTEMBER 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337



SITE DRAWING
CITY OF BURNET
WASTEWATER TREATMENT PLANT
PERMIT NO. WQ0011201001

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

The following attachments are not needed for the City of Burnet WWTP TPDES Permit Renewal:

Buffer Zone Map

Design Calculations

Solids Management Plan

Water Ballance

The following attachments are not needed for the City of Burnet WWTP TPDES Permit Renewal:

Buffer Zone Map

Design Calculations

Solids Management Plan

Water Ballance

Candice Calhoun

From: Steve G. Barry PE <sbarry@quiddity.com>
Sent: Wednesday, November 20, 2024 5:07 PM
To: Candice Calhoun
Subject: RE: City of Burnet - Reply to administrative review
Attachments: LandOwner_11x17_110624 - draft.pdf; Affected_Landowners - 2024-11-20.pdf; Affected_Landowners - 2024-11-20 Labels.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Attached is a revised landowners map with all continuous parcels owned by the City of Burnet outlined in dark blue and the landowners of all parcels within ¼ mile of the sludge application sites identified. Please note that there are parcels of land adjacent to land owned by the City of Burnet, but more than ¼ mile from the sludge application sites. I have also attached mailing labels.

I will also be placing these attachments in the mail.

Please let me know if there are any questions

Steve Barry
Senior Engineer - Permitting Specialist
Email: sbarry@quiddity.com
T: 281-363-4039

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, November 12, 2024 3:36 PM
To: Steve G. Barry PE <sbarry@quiddity.com>
Cc: Jonathan Nguyen <jnguyen@quiddity.com>
Subject: RE: City of Burnet - Reply to administrative review

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Good afternoon, Mr. Barry,

It would only be ¼ mile around the sludge site that would need to be notified.

Please let me know if you have any additional questions. I recently changed my hours to 7-4, so if you have more questions, just let me know and I will answer ASAP tomorrow.

Regards,

Candice Courville
Texas Commission on Environmental Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Steve G. Barry PE <sbarry@quiddity.com>
Sent: Tuesday, November 12, 2024 2:28 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jonathan Nguyen <jnguyen@quiddity.com>
Subject: RE: City of Burnet - Reply to administrative review

I have a question in regards to identifying property owners within ¼ mile of the applicant's property. I have attached a map from the City of Burnet. The sludge application field is at the north end of the airport (light blue area). The green area adjacent to the airport is a City golf course. The southern end of this golf course is 2.5 miles away from the sludge application field. Do I need to identify landowners within ¼ mile of the golf course?

Steve Barry
Senior Engineer - Permitting Specialist
Email: sbarry@quiddity.com
T: 281-363-4039

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, November 8, 2024 11:59 AM
To: Steve G. Barry PE <sbarry@quiddity.com>
Cc: Jonathan Nguyen <jnguyen@quiddity.com>
Subject: RE: City of Burnet - Reply to administrative review

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Good afternoon, Mr. Barry,

Thank you, I was able to confirm that we received the $1,000. Response to Item 1 is sufficient. More information is needed for Item 4 of NOD 2.

The affected landowner map properties labeled 3, 8, 10, 26, 28, 34, 43, 55, 75, 83, 90, 95, 103, 104, 109, 110, and 113 are owned by the applicant. The applicant cannot be their own affected landowner. Please provide a revised map that labels the full applicant property boundary, including all contiguous properties owned by the applicant, and labels all affected landowners adjacent to the applicant's contiguous property boundary.

Please also provide an updated cross reference landowner list and the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document. Also, the landowner list showed 116 landowners, yet the landowner map did not include number 116. Please include 116 into the updated map.

In addition, the deadline for a response to NOD was yesterday, November 7, 2024. Since that deadline has passed, we will need to submit a 30-day will return notice, which essentially allows you an additional 30 days to provide a complete response.

Please let me know if you have any additional questions.

Regards,

Candice Courville
Texas Commission on Environmental Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Steve G. Barry PE <sbarry@quiddity.com>
Sent: Wednesday, November 6, 2024 5:02 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jonathan Nguyen <jnguyen@quiddity.com>
Subject: RE: City of Burnet - Reply to administrative review

Ms. Courville,

In response to NOD 2 sent on October 24, 2024,

Item 1 – Attached is a copy of the cover letter and check for $1,000 for the sludge application

Item 4 – Attached is the landowner map with the ¼ mile buffer labeled and the landowner list formatted for mailing labels (Avery 5160) in a Word document

Is there anything I need to send you reply to NOD 2 sent on October 24, 2024?

Is there anything that I need to send you to reply to NOD 1 sent on October 14, 2024?

Steve Barry
Senior Engineer - Permitting Specialist

Email: sbarry@quiddity.com
T: 281-363-4039

Candice Calhoun

From: Steve G. Barry PE <sbarry@quiddity.com>
Sent: Thursday, October 31, 2024 1:49 PM
To: Candice Calhoun
Cc: Jonathan Nguyen
Subject: City of Burnet - Reply to administrative review
Attachments: Burnett PLS.docx; City of Burnet Signature Page SIGNED.pdf; Revised NORI.docx; Revised NORI - Spanish.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Calhoun,

Please accept this email as a response to the letter dated October 14, 2024 that directed my attention to issued noted during the administrative review of the permit renewal application for the City of Burnet WWTP (TPDES Permit No. WQ0010793002).

1. I have attached the Plain Language Summary (PLS) in both English and Spanish. The PLS contains information regarding the wastewater treatment plant and the sludge land application practices.
2. I have attached the signed, dated, and notarized Signature Page from the Domestic Wastewater Permit Application Administrative Report.
3. I have reviewed the portion of the NORI that was in your letter. There was one slight error and the NORI did not mention the sludge land application practices. I have attached a revised portion of the NORI.
4. I have attached the portion of the NORI mentioned in item 3 in Spanish.

Please contact me if you have any questions

Steve Barry, P.E
Senior Engineer - Permitting Specialist

QUIDDITY

sbarry@quiddity.com
281-363-4039 ext 1130
1575 Sawdust Road, Suite 400, The Woodlands, Texas, 77380, United States
www.quiddity.com

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Candice Calhoun

From: Steve G. Barry PE <sbarry@quiddity.com>
Sent: Wednesday, November 6, 2024 5:02 PM
To: Candice Calhoun
Cc: Jonathan Nguyen
Subject: RE: City of Burnet - Reply to administrative review
Attachments: COVLTRFee Burnet - Sludge.pdf; LandOwner_11x17_110624.pdf; Affected_Landowners - 2024-07-29 - Labels.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Courville,

In response to NOD 2 sent on October 24, 2024,

Item 1 – Attached is a copy of the cover letter and check for $1,000 for the sludge application

Item 4 – Attached is the landowner map with the ¼ mile buffer labeled and the landowner list formatted for mailing labels (Avery 5160) in a Word document

Is there anything I need to send you reply to NOD 2 sent on October 24, 2024?

Is there anything that I need to send you to reply to NOD 1 sent on October 14, 2024?

Steve Barry
Senior Engineer - Permitting Specialist
Email: sbarry@quiddity.com
T: 281-363-4039

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Wednesday, November 6, 2024 4:09 PM
To: Steve G. Barry PE <sbarry@quiddity.com>
Cc: Jonathan Nguyen <jnguyen@quiddity.com>
Subject: RE: City of Burnet - Reply to administrative review
Importance: High

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Good afternoon, Mr. Barry,

Thank you for your email. The response to items 1 and 4 of the NOD 2, send on October 24, 2024, and attached to this email, is still needed.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010793002

Applicant: City of Burnet

Certification:

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

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

Signatory name (typed or printed): David Vaughn

Signatory title: City Manager

Signature: _____ Date: October 18, 2024

(Use blue ink)

Subscribed and Sworn to before me by the said David Vaughn

on this 18th day of October, 2024.

My commission expires on the 28th day of March, 2028.

_____

Notary Public

[SEAL]

MARIA GONZALES
My Notary ID # 134828258
Expires March 28, 2028

Burnet

County, Texas

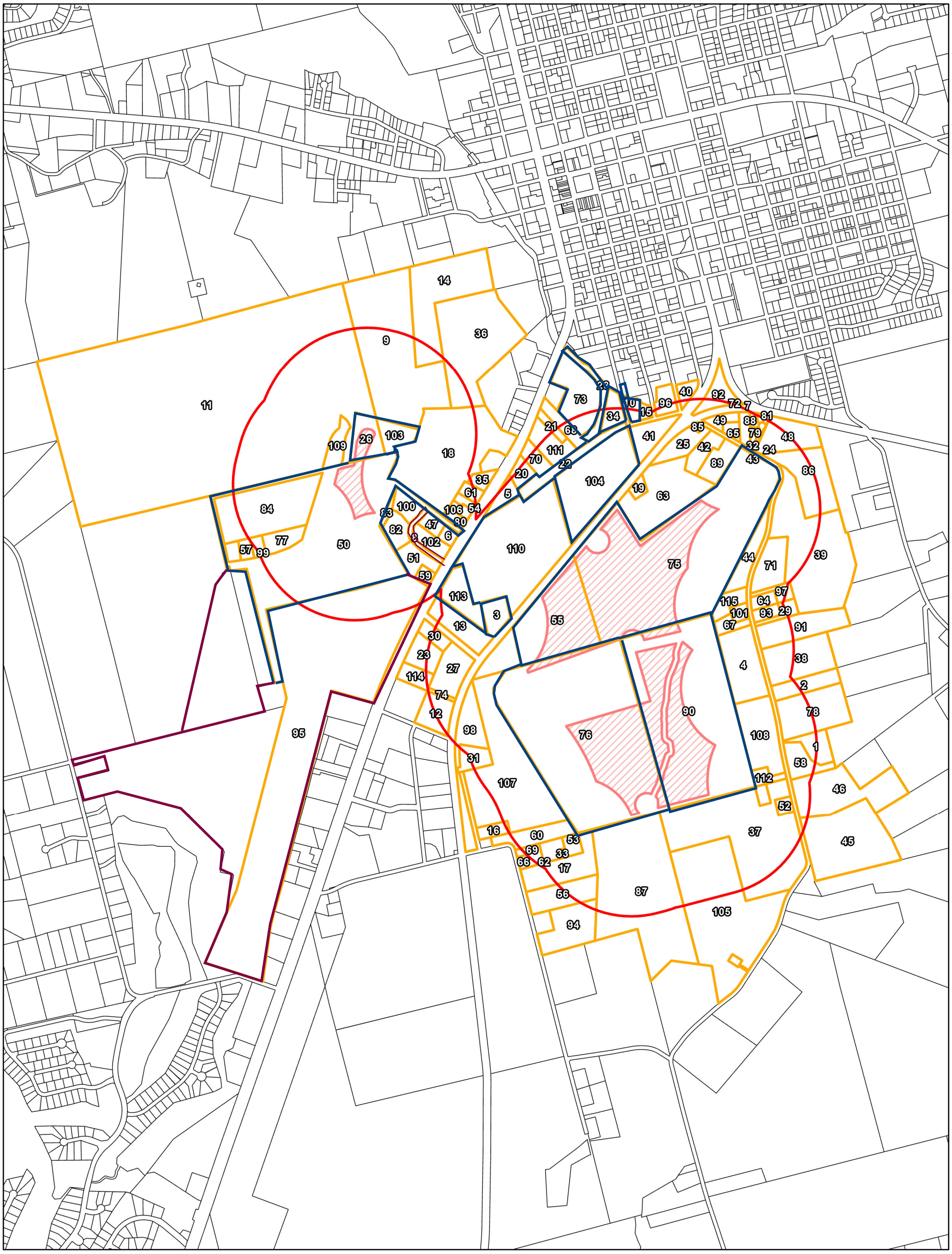
CITY OF BURNET
WASTEWATER TREATMENT PLANT
AFFECTGED LANDOWNERS

ID	Landowner	Address	City	State	Zip
1	HILL ORAN (DEC'D)	201 STELLAR DR	BURNET	TX	78611
2	RAMIREZ FRANCISCO	PO BOX 1366	BURNET	TX	78611
4	HAILE JERRY L & GLORIA	1700 COUNTY ROAD 340	BURNET	TX	78611
5	STATE OF TEXAS	PO BOX 15426	AUSTIN	TX	78761
6	SRS HWY 281 PROPERTY LLC	20014 GLEN LAKE DR	SPRING	TX	77388
7	WILLS JUSTIN & RACHEL CHRISTIAN	112 CRAWFORD CT	BURNET	TX	78611
9	WILLIAMS ERIN SAUCIER & BRIAN ALLEN	121 GABRIELS LOOP	GEORGETOWN	TX	78628
11	ENTEGRIS INC	117 JONATHAN BLVD N	CHASKA	MN	55318
12	ENGINEERED PRECISION CASTING CO	952 PALMER AVE	MIDDLETOWN	NJ	07748
13	HOFFPAUIR JAMES LEE	PO BOX 1281	LAMPASAS	TX	76550
14	JUDY & THRASHER INC	2618 ROLLING OAKS	SAN MARCOS	TX	78666
15	PEREZ VICTOR JR	104 EAST VALLEY	BURNET	TX	78611
16	MILAM TOMMY ETUX THELMA	521 COUNTY ROAD 340A	BURNET	TX	78611
17	FELPS TYREL	PO BOX 37	BURNET	TX	78611
18	HILL COUNTRY FELLOWSHIP CHURCH	200 HOUSTON CLINTON DR	BURNET	TX	78611
19	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
20	BANKS DONALD N	2811 LONCOLA CT	ROUND ROCK	TX	78681
21	PAVELKA RODINA LLC	14126 RIVERWAY DR	CORPUS CHRISTI	TX	78410
23	PINKY AND THE BRAIN LLC	2105 S WATER ST	BURNET	TX	78611
24	Q CRAWFORD PROPERTY DEVELOPMENT LLC	241 STANBERRY LN	BURNET	TX	78611
25	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
27	SILICON HILL COUNTRY LTD	203 REPRO DR	BURNET	TX	78611
29	KAVIKONDALA NAGASHIVA SHARMA	106 WOLSELEY DR	HUTTO	TX	78634
30	RP TROUT HOLDINGS LLC	32 HIGHWAY 35 N	ROCKPORT	TX	78382
31	REIFEL ROBERT & RANDI	515 CR 340A	BURNET	TX	78611
32	COLEY CHRIS & COLEY LINETTE	100 CRAWFORD LN	BURNET	TX	78611
33	HNC PROPERTY LLC	1436 CR 200 B	BURNET	TX	78611
35	SHOESTRING HOLDINGS LLC	315 MEADOWLAKES DR	MARBLE FALLS	TX	78654
36	WOODS TERESA REID & PAMELA REID WILL & KERRY G REID	505 HOLIDAY DR	BURNET	TX	78611
37	MAYNARD JANICE LESTER	2210 CR 340	BURNET	TX	78611
38	MCCOY WILLIAM H & CHRISTINE D; DANIELLE M & SANTOS DE LOS SANTOS J	1701 CR 340	BURNET	TX	78611
39	WALTON AMELIA H ETUX GLENN R	1243 COUNTY ROAD 340	BURNET	TX	78611
40	SCHLOSSER CHRISTOPHER M & JOSEPHINE C	1104 S BOUNDARY	BURNET	TX	78611
41	MYERS CHERYL ANN	205 S BEACH ST	BURNET	TX	78611
42	ATKISON CASH D & TAVANA G	1042 CR 340	BURNET	TX	78611
44	SALINAS ELIAS P ETUX MARIA L	165 WASTEWATER PLANT DR	BURNET	TX	78611
45	LENTZ MATTHEW WILEY	2201 CR 340	BURNET	TX	78611
46	MEEKS RANDALL	915 CR 330	BURNET	TX	78611
47	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
48	BERRYHILL DONNIE LYNN ETUX ELEANOR	PO BOX 172	MARBLE FALLS	TX	78654
49	SHAW VERNON	PO BOX 1482	BURNET	TX	78611
50	NO DATA AVAILABLE				
51	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
52	LESTER GEORGE FRED & LYNDA FELPS LESTER LIFE ESTATES	P O BOX 208	BURNET	TX	78611
53	HNC PROPERTY LLC	1436 CR 200 B	BURNET	TX	78611
54	BRAITHWAIT CAROLLEE TRUSTEE	6805 SLERET AVE	VANCOUVER	WA	98664
56	CARDENAS AMBER FELPS	753 CR 340A	BURNET	TX	78611
57	LYNCH JONATHAN BRIAN	PO BOX 116	BURNET	TX	78611
58	GRISHAM ROBIN & JAMES THOMAS GRISHAM	119 ESCALERA PARKWAY	GEORGETOWN	TX	78628
59	LRS INVESTMENTS LLC	104 HILLS WAY	HORSESHOE BAY	TX	78657
60	HALL DUDLEY	541 COUNTY ROAD 340A	BURNET	TX	78611
61	SILTONS PALM PROPERTIES LLC	PO BOX 5205	MONTECITO	CA	93108
62	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
63	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
64	BAKER TIMOTHY DWAYNE & SYLVIA HAY	305 RM 1431	MARBLE FALLS	TX	78654
65	FLORES CHRISTY & HECTOR FLORES ORDONEZ &	6400 CRAIGWOOD CIR	AUSTIN	TX	78725
66	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
67	HICKMAN WILLIAM A ETUX SHIRLEY	1634 CR 340	BURNET	TX	78611
68	HEUSS ROY A & NANCY L	1401 COUNTY ROAD 100	BURNET	TX	78611

CITY OF BURNET
WASTEWATER TREATMENT PLANT
AFFECTGED LANDOWNERS

ID	Landowner	Address	City	State	Zip
69	COKENDOLPHER FAMILY LLC	1436 CR 200B	BURNET	TX	78611
70	PANDILLO INK LLC	PO BOX 426	BURNET	TX	78611
71	ULBRICH JAMES C	PO BOX 1395	BURNET	TX	78611
72	HOFF TIMOTHY MATTHEW & KENDRA CLARK	1139 CR 340	BURNET	TX	78611
73	HOUSING AUTHORITY OF CITY OF BURNET	P O BOX 1369	BURNET	TX	78611
74	ENGINEERED PRECISION CASTING CO	952 PALMER AVE	MIDDLETOWN	NJ	07748
76	NO DATA AVAILABLE				
77	GIBRALTAR GLOBAL LLC	PO BOX 519	BURNET	TX	78611
78	OAK KNOLL ENTERPRISES LLC	5800 MANOR RD	AUSTIN	TX	78723
79	STROH RYAN MATTHEW & GINA LOUISE	104 CRAWFORD COURT	BURNET	TX	78611
80	LLANO CHICKEN LLC	PO BOX 869	BURNET	TX	78611
81	HERNANDEZ JONATHAN & KIM NGAN NGUYEN HUYNH	116 CRAWFORD CT	BURNET	TX	78611
82	TEKMAK BURNET HOTEL LP	3021 RIDGE RD A-120	ROCKWALL	TX	75032
84	ENTEGRIS INC	117 JONATHAN BLVD N	CHASKA	MN	55318
85	ADAIR KENNETH DON AND COURTNEY LOCKHART	1032 CR 340	BURNET	TX	78611
86	TEJAS REIN LLC	251 OAK BEND DR	LIBERTY HILL	TX	78642
87	FELPS LLC	PO BOX 208	BURNET	TX	78611
88	RALA-MALIG REA ANGELA MENRIGE & WARREN EUGEN SAURE MALIG	108 CRAWFORD CT	BURNET	TX	78611
89	SHUEMAKER GEORGE D & YVONNE B	1128 COUNTY ROAD 340	BURNET	TX	78611
91	FLORES IMELDA HERNANDEZ LANDAVERDE GUMARO	1649 CR 340	BURNET	TX	78611
92	AUSTIN CITY OF	PO BOX 1088	AUSTIN	TX	78767
93	MUCCIGROSSI BRYAN	1625 CR 340	BURNET	TX	78611
94	FELPS WILLIAM L	PO BOX 37	BURNET	TX	78611
96	ROBERTSON CLAIRE S & WILLIAM P	500 S BOUNDARY	BURNET	TX	78611
97	RAMIREZ JOSH	1615 CR 340	BURNET	TX	78611
98	REIFEL ROBERT & RANDI	515 CR 340A	BURNET	TX	78611
99	LYNCH JONATHAN BRIAN	PO BOX 116	BURNET	TX	78611
100	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
101	HICKMAN PEGGY JEAN	1622 COUNTY ROAD 340	BURNET	TX	78611
102	BURNET ECONOMIC DEVELOPMENT CORPORATION	PO BOX 1369	BURNET	TX	78611
105	DUNNAM NANCY LESTER	1305 BRIGHTON BEND LANE	CEDAR PARK	TX	78613
106	YERBY SPORTS TX I, LLC (54.94%) & YERBY SPORTS TX II, LLC (45.06%)	2106 EDGECOURT DR	HILLSBOROUGH	CA	94010
107	GILBERT RAY ETUX SHERYL	509 COUNTY ROAD 340A	BURNET	TX	78611
108	HAILE JERRY L & GLORIA	1700 COUNTY ROAD 340	BURNET	TX	78611
111	PAVELKA RODINA LLC	14126 RIVERWAY DR	CORPUS CHRISTI	TX	78410
112	COPELAND JOHN R	PO BOX 61	BERTRAM	TX	78605
114	VISSER DAVID E	2301 S WATER ST	BURNET	TX	78611
115	WELLS CLEO K LIFE ESTATE	181 WASTEWATER PLANT DR	BURNET	TX	78611
116	GOPARTH LLC	3433 MULBERRY CREEK DR	AUSTIN	TX	78732

AFFECTED LANDOWNERS



VICINITY MAP

1 INCH = 10 MILES

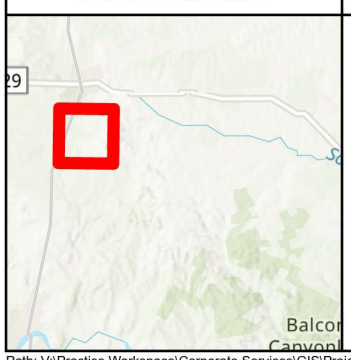
CITY OF BURNET

BURNET COUNTY, TEXAS

N W E S

0 1,200

1 INCH = 1,200 FEET



Legend

- Affected Landowners
- Sludge Application Area
- Parcels
- 1/4 Mile Buffer
- Land Owned by City

Disclaimer: This product is offered for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property, governmental and/or political boundaries or related facilities to said boundary. No express warranties are made by Quiddity Engineering concerning the accuracy, completeness, reliability, or usability of the information included within this exhibit.

QUIDDITY

Texas Board of Professional Engineers Registration No. F-23290

Path: V:\Practice Workspace\Corporate Services\GIS\Projects\0_USGS Maps\City of Burnet\COB USGS Map.aprx Project Number: 0A737-0008-01.001 Date: 11/6/2024 User Name: ahinkle

City of Burnet
TPDES Renewal Application – Plain Language Summary

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 Burnet (CN600743074) operates the City of Burnet wastewater treatment plant (RN101720936), an activated sludge process plant operated in the complete mix mode. The facility is located at 301 Waste Water Plant Drive, in the City of Burnet, Burnet County, Texas 78611.

This application is for a renewal to discharge at an annual average flow of 1,700,000 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, aeration basins, final clarifiers, sludge thicker, belt press, tertiary filters, and ultraviolet disinfection.

The City of Burnet also operates Class B biosolids beneficial use land application unit on 109.63 acres of land. The land application units are located adjacent to and north and south of the wastewater treatment plant and adjacent and north of the runway at the municipal airport in Burnet County, Texas 78611.

The City of Burnet land applies Class B wastewater treatment plant biosolids for beneficial use at a maximum rate of 12 dry tons per acre per year on 109.63 acres of land. This land application unit will not discharge of pollutants into water in the state. The following pollutants are expected in biosolids land application: Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc. Examples of best management practices implemented by the City of Burnet include but are not limited to: monitoring of metal pollutants, pathogen reduction, vector attraction reduction, applicable land application unit buffer zones, soil monitoring and limiting application at the appropriate agronomic rate based on crop needs.

City of Burnet
TPDES Renewal Application – Plain Language Summary

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 son representaciones federales exigibles de la solicitud de permiso.

La ciudad de Burnet (CN600743074) opera la planta de tratamiento de aguas residuales de la ciudad de Burnet (RN101720936), una planta de procesamiento de lodos activados que funciona en modo de mezcla completa. La instalación está ubicada en 301 Waste Water Plant Drive, en la ciudad de Burnet, condado de Burnet, Texas 78611.

Esta solicitud es para una renovación para descargar un flujo promedio anual de 1.700.000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso ($CBOD_5$) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Análisis de contaminantes del efluente tratado en el paquete de solicitud de permiso. Las aguas residuales domésticas serán tratadas mediante una planta de proceso de lodos activados y las unidades de tratamiento incluirán una rejilla de rejas, tanques de aireación, clarificadores finales, espesador de lodos, prensa de banda, filtros terciarios y desinfección ultravioleta.

La ciudad de Burnet también opera una unidad de aplicación de tierras de uso beneficioso de biosólidos de Clase B en 109.63 acres de tierra. Las unidades de aplicación terrestre están ubicadas adyacentes, norte y sur de la planta de tratamiento de aguas residuales y adyacentes y al norte y adyacente a la pista del aeropuerto municipal en el condado de Burnet, Texas 78611.

La tierra de la ciudad de Burnet aplica biosólidos de plantas de tratamiento de aguas residuales de Clase B para uso beneficioso a una tasa máxima de 12 toneladas secas por acre por año en 109.63 acres de tierra. Esta unidad de aplicación terrestre no descargará contaminantes en el agua del estado. Se esperan los siguientes contaminantes en la aplicación terrestre de biosólidos: Arsénico, Cadmio, Cromo, Cobre, Plomo, Mercurio, Molibdeno, Níquel, Selenio y Zinc. Ejemplos de las mejores prácticas de manejo implementadas por La ciudad de Burnet incluyen, pero no se limitan a: monitoreo de contaminantes metálicos, reducción de patógenos, reducción de la atracción de vectores, zonas de amortiguamiento de unidades de aplicación de tierra aplicables, monitoreo del suelo y limitación de la aplicación a la tasa agronómica adecuada según las necesidades del cultivo.

Candice Calhoun

From: Jonathan Nguyen <jnguyen@quiddity.com>
Sent: Tuesday, October 15, 2024 9:42 AM
To: Candice Calhoun
Cc: Steve G. Barry PE; Michael P. Gurka PE
Subject: Re: Application to Renew Permit No. WQ0010793002 - City of Burnet - Notice of Deficiency
Attachments: Burnett PLS.pdf; City of Burnet Spanish NORI.docx; wq0010793002-nod1.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning Ms. Calhoun,

We are working on getting you a resigned signature page. Attached is the Plain Language Summary and the Spanish NORI.

Quick question. Do we just need the signed signature page from Admin Report 1.0?

Thanks!

Jonathan Nguyen
Permitting Specialist

QUIDDI

jnguyen@quiddity.com

(512) 685-5156

3100 Alvin Devane Boulevard, Suite 150 , Austin , Texas , 78741 , United States

www.quiddity.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, October 14, 2024 3:58 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Steve G. Barry PE <sbarry@quiddity.com>
Subject: Application to Renew Permit No. WQ0010793002 - City of Burnet - Notice of Deficiency

Candice Calhoun

From: Jonathan Nguyen <jnguyen@quiddity.com>
Sent: Monday, October 21, 2024 8:13 AM
To: Candice Calhoun
Cc: Steve G. Barry PE; Michael P. Gurka PE
Subject: Re: Application to Renew Permit No. WQ0010793002 - City of Burnet - Notice of Deficiency
Attachments: City of Burnet Signature Page SIGNED.pdf; wq0010793002-nod1.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Good morning Candice,

Attached for you is the executed signature page for the City of Burnet. The original is being mailed to you.

The NORI portion listed in the NOD is also good to go. Please let us know if you have any additional questions on this application.

Thank you!

Jonathan Nguyen
Permitting Specialist

QUIDDI

jnguyen@quiddity.com

(512) 685-5156

3100 Alvin Devane Boulevard, Suite 150 , Austin , Texas , 78741 , United States

www.quiddity.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, October 17, 2024 8:34 AM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Steve G. Barry PE <sbarry@quiddity.com>; Michael P. Gurka PE <mgurka@quiddity.com>
Subject: RE: Application to Renew Permit No. WQ0010793002 - City of Burnet - Notice of Deficiency

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010793002

Applicant: City of Burnet

Certification:

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

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

Signatory name (typed or printed): David Vaughn

Signatory title: City Manager

Signature: _____ Date: October 18, 2024

(Use blue ink)

Subscribed and Sworn to before me by the said David Vaughn

on this 18th day of October, 2024.

My commission expires on the 28th day of March, 2028.

_____

Notary Public

[SEAL]

MARIA GONZALES
My Notary ID # 134828258
Expires March 28, 2028

Burnet

County, Texas