

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



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

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

Vanden Berge Farms located at 2345 CR 177 in Stephenville, Texas operates in a symbiotic relationship with Schreiber Foods, Inc., focusing on the environmental management of by-products from dairy food manufacturing. The farm's activities involve the storage and land application of treated effluent from Schreiber Foods, which specializes in cheese production.

At Schreiber Foods, the wastewater undergoes a comprehensive treatment process before it is sent to Vanden Berge Farms. Initially, the process water is collected and passed through monitoring stations. Here, a bar screen is employed for the removal of solids, followed by a dissolved air flotation tank which further eliminates solids. The domestic wastewater is separately treated using a chlorination system to disinfect it before it merges with the process wastewater at a lift station. This combined effluent is then directed to a sophisticated storage/treatment system. It consists of an aeration lagoon with a capacity of 3 million gallons and equipped with a 200 horsepower aeration pump. Additionally, there are two more aeration lagoons, each with the same storage capacity and 60 horsepower of aeration equipment, and a large 13.9 million gallon storage lagoon. After treatment, the effluent is stored and then pumped to Vanden Berge Farms. It is crucial to note that Vanden Berge Farms does not treat this wastewater; they only store and apply the already treated wastewater from Schreiber Foods to their land application fields that consist of 223 acres of coastal bermudagrass and sorghum.

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

Vanden Berge Farms, ubicada en 2345 CR 177 en Stephenville, Texas, opera en una relación simbiótica con Schreiber Foods, Inc., enfocándose en la gestión ambiental de subproductos de la fabricación de alimentos lácteos. Las actividades de la granja implican el almacenamiento y aplicación al suelo de efluentes tratados de Schreiber Foods, que se especializa en la producción de queso.

En Schreiber Foods, las aguas residuales se someten a un proceso de tratamiento integral antes de enviarlas a Vanden Berge Farms. Inicialmente, el agua del proceso se recolecta y pasa a través de estaciones de monitoreo. Aquí, se emplea una criba de barras para la eliminación de sólidos, seguida de un tanque de flotación de aire disuelto que elimina aún más los sólidos. Las aguas residuales domésticas se tratan por separado mediante un sistema de cloración para desinfectarlas antes de fusionarse con las aguas residuales del proceso en una estación de bombeo. Este efluente combinado luego se dirige a un sofisticado sistema de almacenamiento/tratamiento. Consiste en una laguna de aireación con capacidad de 3 millones de galones y equipada con una bomba de aireación de 200 caballos de fuerza. Además, hay dos lagunas de aireación más, cada una con la misma capacidad de almacenamiento y 60 caballos de fuerza de equipo de aireación, y una gran laguna de almacenamiento de 13.9 millones de galones. Después del tratamiento, el efluente se almacena y luego se bombea a Vanden Berge Farms. Es fundamental tener en cuenta que Vanden Berge Farms no trata estas aguas residuales; solo almacenan y aplican las aguas residuales ya tratadas de Schreiber Foods a sus campos de aplicación terrestre que consisten en 223 acres de bermuda y sorgo costeros.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0005478000

APPLICATION. Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, and Kayla Vanden Berge, 404 Morgan Mill Road, Stephenville, Texas 76401, which own a disposal site for the storage and land application of treated effluent from the dairy food manufacturing facility authorized under existing Texas Land Application Permit No. WQ0003074000, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0005478000 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 192,000 gallons per day via surface irrigation of 223 acres. The disposal area will be located at 2345 County Road 177, near the city of Stephenville, in Erath County, Texas 76401. TCEQ received this application on November 25, 2024. The permit application will be available for viewing and copying at Erath County Courthouse - Erath County Extension Office, Room 206, 100 West Washington Street, Stephenville, in Erath 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/tlap-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=-98.1775.32.251666&level=18

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

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 Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, and Kayla Vanden Berge at the address stated above or by calling Mr. Corey Mullin, Enviro-Ag Engineering, at 254-485-3892.

Issuance Date: January 31, 2025

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECEPCIÓN DE LA SOLICITUD Y LA INTENCIÓN DE OBTENER CALIDAD DEL AGUA PERMISO

PERMISO PROPUESTO NO. WQ0005478000

SOLICITUD. Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, y Kayla Vanden Berge, 404 Morgan Mill Road, Stephenville, Texas 76401, que poseen un sitio de disposición para el almacenamiento y aplicación a tierra del efluente tratado de la instalación de fabricación de alimentos lácteos autorizada bajo el existente Permiso para la Aplicación en Terrenos de Texas No. WQ0003074000, han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) por el propuesto Permiso para la Aplicación en Terrenos de Texas (TLAP) No. WQ0005478000 para autorizar la disposición de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 192,000 galones por día mediante el riego superficial de 223 acres. El sitio de disposición estará ubicado en 2345 County Road 177, cerca de la ciudad de Stephenville, en el Condado de Erath, Texas 76401. La TCEQ recibió esta solicitud el día 25 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Palacio de Justicia del Condado de Earth - Oficina de Extensión del Condado de Erath, Sala 206, 100 West Washington Street, Stephenville, en el Condado de Erath, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluidas las actualizaciones y los avisos asociados, están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/tlap-applications.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.1775,32.251666&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos

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

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

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

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

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 específico. 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.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional de Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, y Kayla Vanden Berge a la dirección indicada arriba o llamando al Sr. Corey Mullin, Enviro-Ag Engineering, al 254-485-3892.

Fecha de emisión el 31 de enero de 2025



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico: 110 East Mill Road Artesia NM 88210

November 11, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team, MC-148
12100 Park 35 Circle
Austin TX 78753

Res TCEQ Industrial Wastewater Application – New Application for Vanden Berge Farms

Erath County, Texas.

Dear Sir/Madam,

Enclosed please find the completed Industrial Administrative Reports, Industrial Technical Reports, Worksheets and supporting documentation for the above referenced facility. Should you have any questions please do not hesitate to contact me.

Respectfully Submitted,

Jourdan Mullin

Enviro-Ag Engineering

Enclosures

cc: Vanden Berge Farms

EAE File

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893inst¹).

Ite	em 1. Application Information and Fees (Instructions, Page 26)
a.	Complete each field with the requested information, if applicable.
	Applicant Name: <u>Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, Kayla Vanden Berge</u>
	Permit No.: WQ000Click to enter text.
	EPA ID No.: TX0Click to enter text.
	Expiration Date: Click to enter text.
b.	Check the box next to the appropriate authorization type.
	☑ Industrial Wastewater (wastewater and stormwater)
	☐ Industrial Stormwater (stormwater only)
c.	Check the box next to the appropriate facility status.
	□ Active ⊠ Inactive
d.	Check the box next to the appropriate permit type.
	\square TPDES Permit \boxtimes TLAP \square TPDES with TLAP component
e.	Check the box next to the appropriate application type.
	⊠ New
	\square Renewal with changes \square Renewal without changes
	\square Major amendment with renewal \square Major amendment without renewal
	☐ Minor amendment without renewal
	☐ Minor modification without renewal
f.	If applying for an amendment or modification, describe the request: Click to enter text.
Foi	r TCEQ Use Only
Seg	gment NumberCounty
	piration DateRegionRegion

https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	⊠ \$350	□ \$350	□ \$315	□ \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$1,250	□ \$1,250	□ \$1,215	□ \$150
Major facility	N/A ²	□ \$2,050	□ \$2,015	□ \$450

h. Payment Information

Mailed

Check or money order No.: <u>Click to enter text.</u> Check or money order amt.: <u>Click to enter text.</u>

Named printed on check or money order: Click to enter text.

Epay

Voucher number: <u>717239 & 717240</u> Copy of voucher attachment: <u>A.A</u>

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: <u>CNClick to enter text</u>.
 Note: Locate the customer number using the <u>TCEQ</u>'s <u>Central Registry Customer Search</u>³.

b. Legal name of the entity (applicant) applying for this permit: <u>Jack Vanden Berge</u>, <u>Ellen Vanden Berge</u>, <u>Jacob Vanden Berge</u>, <u>Kayla Vanden Berge</u>

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Mr. Jack Vanden Berge, Mrs. Ellen Vanden Berge, Mrs. Kayla Vanden Berge</u>

Title: Owners Credential: Click to enter text.

d. Will the applicant have overall financial responsibility for the facility?

² All facilities are designated as minors until formally classified as a major by EPA.

³ https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

	he entity with overall financial responsibility for the facility must apply as a co-
applica	nt, if not the facility owner.
Item 3.	Co-applicant Information (Instructions, Page 27)

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text. **Note:** The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNClick to enter text. **Note:** Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text.

Full Name (Last/First Name): Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

□ Yes □ No

Note: The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and coapplicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: A.B

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

 □ Administrative Contact .

Technical Contact

Prefix: Mr. Full Name (Last/First Name): Jacob Vanden Berge

Title: Owner Credential: Click to enter text.

Organization Name: Vanden Berge Farms

Mailing Address: 2090 CR 176 City/State/Zip: Stephenville, TX 76401

Phone No: 254/485-2956 Email: jake@dairycowcompost.com

□ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering

Mailing Address: 9855 FM 847 City/State/Zip: Dublin, TX 76446

Phone No: 254/485-3892 Email: cmullin@enviroag.com

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Jacob Vanden Berge

Title: Owner Credential: Click to enter text.

Organization Name: Vanden Berge Farms

Mailing Address: 2090 CR 176 City/State/Zip: Stephenville, TX 76401

Phone No: 254/485-2956 Email: Jake@dairycowcompost.com

b. Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering

Mailing Address: 9855 FM 847 City/State/Zip: Dublin, TX 76446

Phone No: 254/485-3892 Email: cmullin@enviroag.com

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr. Full Name (Last/First Name): Jacob Vanden Berge

Title: Owner Credential: Click to enter text.

Organization Name: Vanden Berge Farms

Mailing Address: 2090 CR 176 City/State/Zip: Stephenville, TX 76401

Phone No: 254/485-2956 Email: Jake@dairycowcompost.com

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Jacob Vanden Berge

Title: Owner Credential: Click to enter text.

Organization Name: Vanden Berge Farms

Mailing Address: 2090 CR 176 City/State/Zip: Stephenville, TX 76401

TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report

Phone No: <u>254/485-2956</u> Email: <u>Jake@dairycowcompost.com</u>

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Jourdan Mullin

Title: Consultant Credential: <u>Click to enter text.</u>

Organization Name: Enviro-Ag Engineering

Mailing Address: 9855 FM 847 City/State/Zip: <u>Dublin, TX 76401</u>

Phone No: 806/679-5570 Email: jmullin@enviroag.com

- b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)
 - ⋈ E-mail: imullin@enviroag.com
 - ☐ Fax: Click to enter text.
 - ⊠ Regular Mail (USPS)

Mailing Address: 9855 FM 847

City/State/Zip Code: Dublin, TX 76446

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering

Phone No: 254/485-3892 Email: cmullin@enviroag.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing

place for each county.

Public building name: Erath County Extension Office Location within the building: Erath

County Courthouse

Physical Address of Building: 100 Washington St. Room 206

City: <u>Stephenville</u> County: <u>Erath</u>

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

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

	⊠ Yes □ No
	If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted 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 □ N/A
5.	If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? <u>Spanish</u>
	nin Language Summary Template - Complete the Plain Language Summary (TCEQ Form 972) and include as an attachment. Attachment: <u>A.C</u>
	mplete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application a new permit or major amendment and include as an attachment. Attachment: <u>A.D</u>
em	10. Regulated Entity and Permitted Site Information (Instructions
AFT	Page 29)
TC	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text.
No ma the	
No ma the reg	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Ste: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search at TCEQ's Central Registry to determine the RN or to see if the larger site may already be
No ma the reg Na Far	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Ste: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. Improvide the name known by the community where located): Vanden Berge
No ma the reg Na Far	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Ste: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. Important the site is found, provide the assigned RN. Important the site is found, provide the assigned RN. Important the site is found, provide the assigned RN. Important the site is found, provide the assigned RN.
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No mather reg	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Ste: If your business site is part of a larger business site, a Regulated Entity Number (RN) by already be assigned for the larger site. Use the RN assigned for the larger site. Search at TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. The of project or site (the name known by the community where located): Vanden Berge rms The location address of the facility in the existing permit the same? Yes \Boxedown N/A (new permit) Ste: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or lliamson County, additional information concerning protection of the Edwards Aquifer
No mather reg	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. • te: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search to TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. • the of project or site (the name known by the community where located): Vanden Berge to the location address of the facility in the existing permit the same? • Yes □ No ☒ N/A (new permit) • te: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or liamson County, additional information concerning protection of the Edwards Aquifer by be required.
No mather reg	TEQ issued Regulated Entity Number (RN), if available: RNClick to enter text. The stee if your business site is part of a larger business site, a Regulated Entity Number (RN) are already be assigned for the larger site. Use the RN assigned for the larger site. Search are TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. The of project or site (the name known by the community where located): Vanden Berge arms The location address of the facility in the existing permit the same? Yes \(\subseteq \text{NO} \times \text{N/A} \) (new permit) The facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or lliamson County, additional information concerning protection of the Edwards Aquifer by be required.
No mather regions in the region of the regions in the region of the regi	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Sete: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search at TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. The of project or site (the name known by the community where located): Vanden Berge rms The location address of the facility in the existing permit the same? Yes \Boxtimes No \Boxtimes N/A (new permit) Sete: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or liamson County, additional information concerning protection of the Edwards Aquifer by the required. The open content is a regulated Entity Number (Last/First Name): Click to enter text.
No mather regions in the region of the regions in the region of the regi	EQ issued Regulated Entity Number (RN), if available: RNClick to enter text. Sete: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search at TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. Image: Image: Manage: Manag

f.

g.

a.

b.

c.

d.

e.

f.	Owner of land where treatme	nt facility is o	r will b	oe: <u>Click to enter text.</u>
	Prefix: Click to enter text.	Full Name (L	ast/Fir	st Name): <u>Click to enter text.</u>
	or Organization Name: Schrei	ber Foods, Inc	2.	
	Mailing Address: 400 N Washi	ngton Street		City/State/Zip: Green Bay, WI, 54301
	Phone No: <u>920/455-6109</u>	Email: Paul.B	ythewa	ay@schreiberfoods.com
				a long-term lease agreement in effect fo suffice - see instructions). Attachment:
g.	Owner of effluent TLAP dispo	sal site (if ap	plicabl	e): Click to enter text.
	Prefix: <u>Click to enter text.</u> <u>Ellen Vanden Berge, Mr. Jacob</u>			rst Name): <u>Mr. Jack Vanden Berge, Mrs.</u> . <u>Kayla Vanden Berge</u>
	or Organization Name: Click t	o enter text.		
	Mailing Address: 2090 CR 176	<u>.</u>		City/State/Zip: <u>Stephenville</u> , TX 76401
	Phone No: <u>254/485-2956</u>	1800.000.000	55, 200 to \$11000	owcompost.com
	Note: If not the same as the fa at least six years. Attachment			a long-term lease agreement in effect fo
h.	Owner of sewage sludge dispe	osal site (if ap	plicab	le):
	Prefix: Click to enter text.	Full Name (L	ast/Fir	rst Name): Click to enter text.
	or Organization Name: Click t	o enter text.		
	Mailing Address: Click to ente	r text.		City/State/Zip: Click to enter text.
	Phone No: Click to enter text.	Email: <u>Click t</u> e	<u>o</u> enter	text.
	Note: If not the same as the fa at least six years. Attachment	acility owner, : <u>Click to ente</u>	attach er text.	a long-term lease agreement in effect fo
Ite	em 11. TDPES Discharg Page 31)	ge/TLAP D	ispos	sal Information (Instructions,
a.	Is the facility located on or do	es the treated	d efflue	ent cross Native American Land?
	☐ Yes ☒ No			
b.	Attach an original full size US renewal or amendment applic each item below to confirm it	ations) with a	ıll requ	p (or an $8.5"\times11"$ reproduced portion for aired information. Check the box next to on the map.
	☑ One-mile radius		⊠ Thi	ree-miles downstream information
	☐ Applicant's property bound	laries	□ Tre	eatment facility boundaries
	☐ Labeled point(s) of discharge	ge	☐ Hig	ghlighted discharge route(s)
	☑ Effluent disposal site boun	daries	⊠ All	wastewater ponds
	☐ Sewage sludge disposal site	<u> </u>	□ Nev	w and future construction
	Attachment: <u>A.E.</u>			

c.	☐ Yes ☐ No or New Permit
	If no, or a new application, provide an accurate location description: Click to enter text.
d.	Are the point(s) of discharge in the existing permit correct? ☐ Yes ☒ No or New Permit If no, or a new application, provide an accurate location description: Click to enter text.
e.	Are the discharge route(s) in the existing permit correct? \square Yes \boxtimes No or New Permit If no, or a new permit, provide an accurate description of the discharge route: Click to enter
f.	<u>text.</u> City nearest the outfall(s): N/A
g.	County in which the outfalls(s) is/are located: <u>N/A</u>
h.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
	□ Yes ⊠ No
	If yes, indicate by a check mark if: \square Authorization granted \square Authorization pending
	For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>
	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
i.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	☐ Yes No or New Permit
	If no, or a new application, provide an accurate location description: <u>The effluent disposal</u> sites are located at 2345 CR 177 in Erath County, Texas
j.	City nearest the disposal site: <u>Stephenville</u>
k.	County in which the disposal site is located: <u>Erath</u>
l.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: The facility will utilize underground pipelines to route the effluent from the offsite treatment facility to the disposal sites.
m.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Unnamed tributary to the Dry Branch Creek.

Item 12. Miscellaneous Information (Instructions, Page 33)

a.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	If yes, list each person: <u>Click to enter text.</u>
b.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Account no.: Click to enter text.
	Total amount due: <u>Click to enter text.</u>
c.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Enforcement order no.: <u>Click to enter text.</u>
	Amount due: <u>Click to enter text.</u>

Permit No: WO000Click to enter text.

Applicant Name: Jack Edwin Vanden Berge

Certification: I, Jack Vanden Berge, 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): Jack Vanden Berge

Signatory title: Owner

Signature: Jack Vanden Beige	Date: 11/8/54	
(Use blue ink) Subscribed and Sworn to before me by the said	Jack Vada Rege	
Subscribed and Sworn to before the by the said	ORD THREE BUTE	_
on this	day of Noreaber 20 24	-
My commission expires on the 25%	day of February, 20 28	_
Notary Public	THE PART AND THE P	
Erath	STATE OF TEES	

Note: If co-applicants are necessary, each entity must submitting of the separate signature page.

Permit No: WQ000Click to enter text.

Applicant Name: Ellen Daine Vanden Berge

Certification: I, <u>Ellen Vanden Berge</u>, 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): Ellen Vanden Berge

Signatory title: Owner

Signature: Collen Word Vanden (Use blue ink)		Date: _// -	
Subscribed and Sworn to before me by the said	Elle.	Valu Be	ze
on this8th	day of	Vovember	_, 20_24
My commission expires on the 25^{+1}	day of	Тапинуши	_, 20.28
Notary Public Lichal George	RICAIII	AND EYN ON	
County, Texas	THE STATE OF THE S	13237A30	

Note: If co-applicants are necessary, each entity must submit the wriginal, separate signature page.

Permit No: WQ000Click to enter text.

Applicant Name: Jacob Edward Vanden Berge

Certification: I, <u>Jacob Vanden Berge</u>, 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): <u>Jacob Vanden Berge</u>
Signatory title: Owner
Signature: first / and 1/2 Date: 11-8-24 (Use blue jnk)
Subscribed and Sworn to before me by the said
on this day of, 20 24.
My commission expires on the 25% day of -76% , 20% .
The Richard Grand LYN GETTING LYN GETTING
Notary Public
Eath S.
County, Texas
Note: If co-applicants are necessary, each entity must submitted in organization separate signature page.

Permit No: WQ000Click to enter text.

Applicant Name: Kayla Pendray Vanden Berge

Certification: I, Kayla Vanden Berge, 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): Kayla Vanden Berge

Signatory title: Owner

Signature: Lactor and Use blue ink)	Date: 11 8 24
Subscribed and Sworn to before me by the said	Kayla Vander Bese
on this8th	day of November , 20 24.
My commission expires on the 25^{th}	day of February , 20 28.
Notary Public	SEAL PERSON
Erath County Toyon	STATE OF TELL
County, Texas	1 3231 A3 000 1111
Note: <i>If co-applicants are necessary, each entity page.</i>	must submit, 1372 riginal, separate signature

TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report

INDUSTRIAL WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.1**

The following information is required for new and amendment applications.

Item 1. Affected Landowner Information (Instructions, Page 35)

a.	Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.				
	☑ The applicant's property boundaries.				
	oxtimes The facility site boundaries within the applicant's property boundaries.				
	oxtimes The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.				
	☑ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)				
	☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.				
	☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.				
	☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.				
	☑ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.				
	☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.				
	☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.				
	☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.				
	Attachment: A.F				
b.	Check the box next to the format of the landowners list:				
	☑ Readable/Writeable CD ☐ Four sets of labels				
	Attachment: A.F.				
d.	Provide the source of the landowners' names and mailing addresses: <u>Erath County Appraisal District.</u>				

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by

this application?

□ Yes ⋈ No	
If yes, provide the location and foreseeable impacts and effects this application has o	n the
land(s): <u>Click to enter text.</u>	

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

- 🛮 At least one original photograph of the new or expanded treatment unit location.
- ☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☑ At least one photograph of the existing/proposed effluent disposal site.
- 🛮 A plot plan or map showing the location and direction of each photograph.

Attachment: A.G.

INDUSTRIAL ADMINISTRATIVE REPORT

Attachments

Prepared For:

Vanden Berge Farms 2090 CR 176 Stephenville, TX 76401

September 4, 2024

Prepared By:



Table of Contents

LIST OF FIGURES
LIST OF TABLES
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A.B: CORE DATA FORMS & LEASE AGREEMENT
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A.D: PUBLIC INVOLVEMENT PLAN
A.E: 7.5-MINUTE USGS TOPOGRAPHIC QUADRANGLE
A.F: AFFECTED LANDOWNER INFORMATION
A.G: PHOTOGRAPHS
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Figure A.C.1. Rhotograph Longtin Man
Figure A.G.1 Photograph Location Map1 Figure A.G.2a. Photographs
Figure A.G.2b. Photographs
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Table A.F.1. Adjacent Landowners

A.A: TCEQ APPLICATION FEE

TCEQ ePay Receipt

Transaction Information

Trace Number:

582EA000621562

Date:

08/14/2024 01:18 PM

Payment Method:

CC - Authorization 000004787G

ePay Actor:

COREY MULLIN

TCEQ Amount:

\$350.00

Texas.gov Price::

\$358.13*

Payment Contact Information -

Name:

COREY MULLIN

Company:

ENVIRO-AG ENGINEERING

Address:

9855 FM 847, DUBLIN, TX 76446

Phone:

254-485-3892

Cart Items

717239 WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - \$300.00 NEW 717240 30 TAC 305.53B WO NOTIFICATION FEE \$50.00	Voucher	Fee Description	AR Number	Amount
717240 30 TAC 305.53B WO NOTIFICATION FEE \$50.00	/1/239			\$300.00
TCEO Amount: \$350.00	717240	30 TAC 305.53B WQ NOTIFICATION FEE	TCFO Amounts	\$50.00 \$350.00

^{*} This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

A.B: CORE DATA FORMS

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 Do	ata 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	3. Regulated Entity Reference Number (if issued)
CN 603692856	for CN or RN numbers in Central Registry**	RN

	4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy) 8/14/2024												
4. General Cu	istomer In	format	ion	5. Effective	Date for Cu	ıstome	er Info	ormation	Updat	es (mm/dd/	уууу)		8/14/2024
☐ New Custor	ner		Øυ	pdate to Custor	ner Informa	tion		Chan	ge in R	egulated Ent	ity Own	ership	V.
Change in Le	egal Name (Verifiab	le with the Tex	as Secretary of	State or Tex	as Com	ptrolle	er of Public	Accou	nts)			
The Custome	r Name su	hmitte	d here may l	he undated a	ıtomatical	lu hase	od on	what is c	urrent	and active	with th	o Tovas Soci	etary of State
(SOS) or Texa			-	-	, tomaticar	y buse	011	Wildt is ci	uncne	ana active	WILII CI	ie iekus seci	etary of State
(000)													
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)									If nev	v Customer,	enter pre	evious Custom	er below:
Vanden Berge, Jack Edwin													
7. TX SOS/CP	A Filing Nu	ımber		8. TX State	Fax ID (11 d	igits)			9. Fe	deral Tax II	D	10. DUNS 1	Number (if
									(9 dig	rite)		applicable)	
									(5 uig	gits)			
11. Type of Customer: Corporation Individual Partnership: General							eral 🗍 Limited						
Government: City County Federal Local State Other								Sole Proprietorship Other:					
			rederai	Local State	Other			☐ 30le FI	_				
12. Number o	oi Employ	ees							13, 1	naepenaer	itly Ow	ned and Ope	erated?
0-20	21-100] 101-2	50 🗌 251-	500 🗌 501	and higher			∑ Yes					
14. Customer	Role (Pro	posed or	Actual) – as i	t relates to the	Regulated E	ntity list	ted on	this form.	Please	check one of	the follo	wing	
ПОwner		□on	erator	⊠ ow	ner & Opera	ntor							
Occupation	al Licensee		esponsible Pa		/CP/BSA App					Other:			
	404 More	gan Mill	Road			====							
15. Mailing													
Address:										_			
	City	Steph	enville		State	TX		ZIP	7640	1		ZIP + 4	
16. Country N	Mailing Inf	ormati	on (if outside	USA)			17.	E-Mail Ad	dress	(if applicable	e)		ni -
							Lnvl	berge@gm	ail.com				
										(6			
18. Telephon	Telephone Number 19. Extension or C					on or C	code 20. Fax Number (if applicable)						

TCEQ-10400 (11/22) Page 1 of 3

(254) 396-5225		() ~
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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.)									
Vanden Berge Farms									
23. Street Address of the Regulated Entity:	2345 County	2345 County Road 177							
(No PO Boxes)		r							
	City	Stephenville	State	TX	ZIP	76401	L	ZIP + 4	
24. County	Erach				·	"			•
		If no Stre	et Address is provid	ded, fields 2	5-28 are re	equired.			
25. Description to									
Physical Location:									
26. Nearest City	State Nearest ZIP Code								
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).									
					ata Stana	aras. (Ge	ocoaing of tr	ie Physicai	Address may be
	s where nor			accuracy).	ongitude (\			ne Physical	Address may be
used to supply coordinate	s where nor			accuracy).	ongitude (\			e Physical	Address may be Seconds
used to supply coordinate 27. Latitude (N) In Decima	al:		provided or to gain	28. Lo	ongitude (\		cimal:	e Physical	
used to supply coordinate 27. Latitude (N) In Decima	Minutes		provided or to gain	28. Lo	o ngitude (\ es	W) In De	cimal: Minutes	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees	Minutes	ne have been p	provided or to gain	28. Lo	ongitude (\ es y NAICS Co	W) In De	cimal: Minutes	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code	Minutes 30. 9	ne have been p	provided or to gain	28. Lo Degree 31. Primar	ongitude (\ es y NAICS Co	W) In De	cimal: Minutes 32. Seco	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits)	Minutes 30. 9 (4 di	Secondary SIC	Seconds Code	28. Lo Degree 31. Primary (5 or 6 digit)	es y NAICS Co	W) In De	cimal: Minutes 32. Seco	ndary NAIC	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022	Minutes 30. 9 (4 diputes of the	Secondary SIC	Seconds Code	28. Lo Degree 31. Primary (5 or 6 digit)	es y NAICS Co	W) In De	cimal: Minutes 32. Seco	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B	Minutes 30. 9 (4 diputes of the	Secondary SIC gits)	Seconds Code	28. Lo Degree 31. Primary (5 or 6 digit)	es y NAICS Co	W) In De	cimal: Minutes 32. Seco	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated	Minutes 30. 9 (4 dipusiness of the dispusion of the disp	Secondary SIC gits)	Seconds Code	28. Lo Degree 31. Primary (5 or 6 digit)	es y NAICS Co	W) In De	cimal: Minutes 32. Seco	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B	Minutes 30. 9 (4 dipusiness of the dispusion of the disp	Secondary SIC gits)	Seconds Code	28. Lo Degree 31. Primary (5 or 6 digit)	es y NAICS Co	W) In De	cimal: Minutes 32. Seco (5 or 6 dig	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated	Minutes 30. 9 (4 dipusiness of the wastewater 2090 CR 17	Secondary SIC gits) his entity? (Di	Seconds Code State	28. Lo Degree 31. Primar (5 or 6 digit	y NAICS Co	W) In De	cimal: Minutes 32. Seco (5 or 6 dig	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated 34. Mailing Address:	Minutes 30. 9 (4 dipusiness of the wastewater 2090 CR 17	Secondary SIC gits) his entity? (Date of the control of the contro	Seconds Code State	28. Lo Degree 31. Primary (5 or 6 digits 311513 TNAICS descrip	y NAICS Cos)	N) In De	cimal: Minutes 32. Seco (5 or 6 dig	ndary NAIC	Seconds

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.

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		New Source								
Municipal So	lid Waste	Review Air	OSSF		Petroleum St	orage Tank	☐ PWS			
Sludge		Storm Water	☐ Title V Air	☐ Title V Air ☐ Tires			Used Oil			
☐ Voluntary Cle	/oluntary Cleanup		Water Rights		Other:					
SECTION IV: Preparer Information										
40. Name:	Corey Mullin 41. Title: Consulta						t			
42. Telephone N	lumber	43. Ext./Code	44. Fax Number	45. E-Mail	Address					
(254) 485-3892		-	(254) 965-8000	cmullin@er	nviroag.com					
SECTION	V: Aut	thorized Si	gnature							
6. By my signature	below, I certify,	to the best of my know	7-	on provided in t quired for the u	this form is true	e and complete, ID numbers ider	and that I have signature authority atified in field 39.			
Company:	Vanden Be	rge Farms		Job Title:	Owner					
Name (In Print):	Jack Vande				101	Phone:	(254) 396- 5 225			
Signature:	gnature: Jack Vamber Beige					Date:	11/8/24			

Emissions Inventory Air

Industrial Hazardous Waste

Edwards Aquifer

☐ Dam Safety

Districts

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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.)

Renewal	(Core Data	Form sh	ould be submi	tted with the	e renewal form)		Other				
2. Customer	Reference	Numb	er (if issued)		Follow this		1011	7.				
CN					2415 4 1.55	Registry**						
ECTIO	N II:	Cus	tomer	Infor	mation	<u>1</u>	,\ <u></u>					
4. General C	ustomer Ir	nformat	tion	5. Effecti	ve Date for C	Customer	Information	Updat	t es (mm/dd,	[/] yyyy)		8/14/2024
New Custo	omer Update to Customer Information Change in Regulat								Pegulated En	tity Own	orchin	
		(Verifiab			y of State or Te					LILY OWII	eramp	
			d here may i Public Accou		d automatica	lly based	on what is	current	and active	with th	ne Texas Sec	cretary of State
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)								If ne	w Customer,	enter pr	evious Custor	mer below:
Vanden Berge,	Ellen Daine	1										
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits)					digits)					10. DUNS	O. DUNS Number (if pplicable)	
11. Type of C	ustomer:		Corporat	ion			☑ Indivi	Individual Partnership:			ership: 🔲 Ge	neral 🗌 Limited
Government: [City 🔲 (County [] Federal [Local 🗌 Sta	ate 🗌 Other		☐ Sole I	Sole Proprietorship Other:			her:	
L2. Number	of Employ	ees						13. I	ndepender	ntly Ow	ned and Op	erated?
] 101-2			01 and higher			⊠ Y		□ No		
14. Custome	r Role (Pro	posed or	Actual) – as i	t relates to t	he Regulated E	intity listea	on this form.	Please	check one of	the follo	wing	
☐Owner ☐Occupation	al Licensee	Ope	erator esponsible Par		Owner & Opera				Other:			
15. Mailing	404 More	gan Mill F	Road									3
Address:	City	Stont -	muillo									
I. Country		Stephe			State	TX	ZIP	7640			ZIP + 4	
16. Country I	vialling Int	ormatio	on (if outside	USA)			17. E-Mail A			e) 		
40.7-1							Lnvberge@gn	nail.com	-			
18. Telephone Number 19. Extension or						on or Coc	Code 20. Fax Number (if applicable)					1

TCEQ-10400 (11/22) Page 1 of 3

(254) 592-1971)"	1 -
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SECTION III: Regulated Entity Information

21. General Regulated En	itity Informa	tion (If 'New Regu	lated Entity" is selec	cted, a new	permit	applica	tion is also	required.)		
New Regulated Entity	Update to	Regulated Entity N	ame 🗍 Update	to Regulate	d Entity	Inform	ation			
The Regulated Entity Nar. as Inc, LP, or LLC).	ne submitte	d may be update	d, in order to me	et TCEQ C	ore Da	ta Stan	dards (re	moval of o	rganization	al endings such
22. Regulated Entity Nam	ie (Enter nam	e of the site where	the regulated action	n is taking _i	olace.)					
Vanden Berge Farms										
23. Street Address of the Regulated Entity:	2345 County Road 177									
(No PO Boxes)	City	Stephenville	State	TX	ZIP	•	76401		ZIP + 4	
24. County	Erath	1	L		l					Li
•	1	If no Street	Address is provi	ded, field	s 25-28	are re	quired.			
25. Description to Physical Location:										
26. Nearest City State Nearest ZIP Code										
Latitude/Longitude are re used to supply coordinate	•	•	•			Standa	rds. (Geo	coding of th	ne Physical	Address may be
27. Latitude (N) In Decim	al:			28	. Longit	ude (V	V) In Deci	mal:		
Degrees	Minutes	S	econds	De	grees		N	linutes		Seconds
29. Primary SIC Code	30.	Secondary SIC C	ode					32. Seco	ndary NAI	CS Code
(4 digits)		igits)		31. Prin (5 or 6 d		AICS Co	de	(5 or 6 di	•	
2022				311513						
33. What is the Primary E	Business of t	his entity? (Do	not repeat the SIC o	or NAICS de	scription	n.)				
Disposal of process generate	ed wastewater									
34. Mailing	2090 CR 1	76								
Address:										
	City	Stephenville	State	тх		ZIP	76401		ZIP + 4	
35. E-Mail Address:	Jake	@dairycowcompo	st.com							
36. Telephone Number			37. Extension or	Code		38. F	ax Numbe	er (if applica	ble)	
(254) 485-2956						() 🥶			

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.

TCEQ-10400 (11/22) Page 2 of 3

Dam Safety		Districts	Edwards Aquifer		Emiss	ions Inventory Air	☐ Industrial Hazardous Waste		
☐ Municipal Solid	Waste	New Source	— I I I OSSF		Petrol	eum Storage Tank	☐ PWS		
Sludge	Sludge Storm Water Title V Air			Tires		Used Oil			
☐ Voluntary Clear	nup		☐ Wastewater Agricul	ture	☐ Wate	Rights	Other:		
SECTION	IV: Pr	eparer In	<u>formation</u>						
40. Name: Co	rey Mullin			41. Title:	Cons	sultant			
42. Telephone Nu	mber	43. Ext./Code	44. Fax Number	45. E-Ma	il Addre	SS			
(254) 485-3892			(254) 965-8000	cmullin@	enviroag.	.com			
SECTION '	V: Au	thorized S	Signature						
16. By my signature b	elow, I certify	y, to the best of my kn					and that I have signature authority ntified in field 39.		
Company:	Vanden B	erge Farms		Job Title:	Ov	vner			
Name (In Print):	Ellen Van	den Berge				Phone:	(254) 592- 1971		
Signature:	6	Man 1/	on la Ba	100		Date:	u/		

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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.)

		ation or Authorization				d with the					
	newal (Core Data Form should be submitted with the renewal form)						Other				
2. Customer	er Reference Number (if issued) Follow this link to for CN or RN num					The state of the s					
CN					Registry**		RN				
ECTIO	N II:	Customer	Inform	ation	<u>n</u>						
I. General Customer Information 5. Effective Date for Custo					Customer	Informa	ition	Updates (mm/dd,	/yyyy)		8/14/2024
New Custo	mer	ГП	pdate to Custom	er Informa	ation		Cha	nge in Regulated En	titu Ouen	orchin	
		(Verifiable with the Tex							uty Own	ersnip	
The Custome	r Name si	ıbmitted here may l	be updated au	tomatica	Illy based	on wha	t is c	current and active	with th	ne Texas Sec	retary of State
		oller of Public Accou			•						, ,
								194V FS.JT SZ			
o. Customer	Legai ivan	ne (If an individual, pri	nt last name firsi	t: eg: Doe,	John)			If new Customer,	enter pri	evious Custon	er below:
Vanden Berge,	Jacob Edwa	ard									
7. TX SOS/CP	A Filing N	umber	8. TX State Ta	ax ID (11 c	digits)			9. Federal Tax ID 10. DUNS Number			
	(9 digits)										
11. Type of C	Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐					neral 🔲 Limited					
Government: [City 🔲 (County 🗌 Federal 🔲	Local 🗌 State [Other		□s	ole P	roprietorship	Ot	her:	
12. Number	mber of Employees 13. Independently Owned and Operated?							erated?			
⊠ 0-20 □ :	21-100	101-250 251-	500 🗌 501 aı	nd higher			∑ Yes ☐ No				
14. Customer	Role (Pro	posed or Actual) – as it	t relates to the R	egulated E	ntity listea	on this f	orm.	Please check one of	the follo	wing	
☐Owner ☐Occupationa	al Licensee	Operator Responsible Par		er & Opera CP/BSA App				☐ Other:			
	2000 Co.	inty Road 176									
15. Mailing	2030 000	mity Noau 1/0									
Address:											
nuuress:	City	Stephenville		State	TX	ZI	P	76401		ZIP + 4	
16. Country N	/lailing Inf	ormation (if outside	USA)			17. E-M	ail A	ddress (if applicabl	e)		
					J	ake@dai	rycov	wcompost.com			
	ephone Number 19. Extension or C						or Code 20. Fax Number (if applicable)				

TCEQ-10400 (11/22)

(254) 485-2956		() ®
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SECTION III: Regulated Entity Information

21. General Regulated En	ntity Informa	ntion (If 'New Regu	lated Entity" is se	lected, a new	permit applica	ntion is also re	equired.)		
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 Nam	ne (Enter nam	e of the site where	the regulated act	ion is taking p	lace.)				
Vanden Berge Farms									
23. Street Address of the Regulated Entity:	2345 Count	y Road 177							
(No PO Boxes)	City	Stephenville	State	TX	ZIP	76401		ZIP + 4	
24. County	Erath								
	1	If no Street	Address is pro	vided, fields	25-28 are re	equired.			
25. Description to									
Physical Location:									
26. Nearest City						State		Near	rest ZIP Code
1									
Latitude/Longitude are r used to supply coordinat	-	-	•			ards. (Geoc	oding of th	e Physical i	Address may be
-	es where no	-	•	in accuracy).				e Physical I	Address may be
used to supply coordinat	es where no	ne have been pro	•	in accuracy).		W) In Decim		e Physical .	Address may be Seconds
used to supply coordinat 27. Latitude (N) In Decim	es where no	ne have been pro	ovided or to ga	in accuracy).	Longitude (\	W) In Decim	al:	e Physical A	
used to supply coordinat 27. Latitude (N) In Decim	es where no	ne have been pro	econds	28. Deg	Longitude (\) rees ary NAICS Co	W) In Decim	al:	e Physical A	Seconds
27. Latitude (N) In Decim Degrees	es where no al: Minutes 30.	ne have been pro	econds	28.	Longitude (\) rees ary NAICS Co	W) In Decim	al:	ndary NAIC	Seconds
27. Latitude (N) In Decim Degrees 29. Primary SIC Code	es where no al: Minutes 30.	s Secondary SIC Co	econds	28. Deg	Longitude (\) rees ary NAICS Co	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits)	Minutes 30.	Secondary SIC Colligits)	econds	28. Deg 31. Prima (5 or 6 dig	Longitude (\) rees ary NAICS Cogits)	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits) 2022	Minutes 30. (4 d	Secondary SIC Colligits)	econds	28. Deg 31. Prima (5 or 6 dig	Longitude (\) rees ary NAICS Cogits)	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary I Disposal of process generate	Minutes 30. (4 d	Secondary SIC Colligits)	econds	28. Deg 31. Prima (5 or 6 dig	Longitude (\) rees ary NAICS Cogits)	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary I Disposal of process generate 34. Mailing	Minutes 30. (4 d	Secondary SIC Colligits)	econds	28. Deg 31. Prima (5 or 6 dig	Longitude (\) rees ary NAICS Cogits)	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary I Disposal of process generate	Minutes 30. (4 d	Secondary SIC Colligits)	econds	28. Deg 31. Prima (5 or 6 dig	Longitude (\) rees ary NAICS Cogits)	W) In Decim	nutes 32. Secon	ndary NAIC	Seconds
used to supply coordinat 27. Latitude (N) In Decim Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary I Disposal of process generate 34. Mailing	Minutes 30. (4 decomposition of the decomposition	Secondary SIC Colligits) this entity? (Do	econds ode State	28. Deg 31. Prim: (5 or 6 dig) 311513	Longitude (\text{Virees} ary NAICS Cogits) cription.)	//) In Decim	nutes 32. Secon	ndary NAIC	Seconds
27. Latitude (N) In Decime Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary I Disposal of process generate 34. Mailing Address:	Minutes 30. (4 decomposition of the decomposition	Secondary SIC Colligits) this entity? (Do	econds ode State	28. Deg 31. Prima (5 or 6 dig 311513 Cor NAICS des	Longitude (\text{\text{V}} rees ary NAICS Cogits) cription.)	//) In Decim	al: nutes 32. Secon (5 or 6 dig	ndary NAIC	Seconds

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.

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Dam Safety	Dam Safety Districts		Edwards Aquifer		Emissions Inv	entory Air	☐ Industrial Hazardous Waste
☐ Municipal S	Municipal Solid Waste New Source Review Air		OSSF] Petroleum St	orage Tank	☐ PWS
Sludge		Storm Water Title V Air Tires] Tires		Used Oil	
☐ Voluntary (Cleanup	⊠ Wastewater	Wastewater] Water Rights		Other:
SECTIO	N TV: Pr	eparer Inf	ormation				
				44 711			
40. Name:	Corey Mullin			41. Title:	Consultant		
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address		
(254) 485-3892	64) 485-3892 (254) 965		(254) 965-8000	cmullin@enviroag.com			
SECTIO	N V: Au	thorized S	ignature	110			*
16. By my signatu	re below, I certif	y, to the best of my kno					e, and that I have signature authority entified in field 39.
Company:	Vanden E	Berge Farms		Job Title:	Owner		
Name (In Print)	: Jacob Vai	nden Berge			14,	Phone:	(254) 485- 2956
Signature:	Pare	6 Vander by				Date:	118-24
	- //	W					

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TCEQ Use Only



18. Telephone Number

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.)

				(Core Data Form			ed with	the prog	ram applicatio	on.)				
Renewal (Core Data Form should be submitted with the renewal form)						Other								
2. Customer	ustomer Reference Number (if issued) Follow this link to for CN or RN number													
CN					Central R			RN						
ECTIO	N II:	Cus	tomer	Inform	ation	Ĺ								
I. General Cu	General Customer Information 5. Effective Date for Custom				ıstome	r Info	rmation	Updates (mr	m/dd/yyy	/y)		8/:	14/2024	
New Custo	mer		Пυ	pdate to Custom	er Informat	tion		☐ Char	nge in Regulate	ed Entity	Owne	rship	-	
		(Verifiab	_	as Secretary of S			ptrolle				011110			
				be updated au	tomaticali	ly base	d on v	what is c	urrent and a	ictive w	ith th	e Texas Sec	retary	of State
SOS) or Texa	s Comptro	oller of	Public Accou	nts (CPA).										
. Customer	Legal Nam	ne (If an	individual, pri	nt last name firsi	t: eg: Doe, J	ohn)			If new Custo	omer, ent	er pre	vious Custon	ner beld	ow:
/anden Berge,	Kayla Pend	ray												
'. TX SOS/CP	TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits)			igits)			9. Federal (9 digits)	Tax ID		10. DUNS applicable)		oer (if		
.1. Type of C	Type of Customer: Corporation					☐ Individual Partnership: ☐ Ger			neral [Limited				
overnment: [City	County [Federal 🔲	Local 🔲 State [Other			Sole Proprietorship Other:						
						endently	ntly Owned and Operated?							
0-20						••								
4. Custome	r Role (Pro	posed o	· Actual) – as i	t relates to the R	egulated Er	ntity list	ed on t	his form.	l Please check o	one of the	e follo	wing		
Owner		ПОр	erator	⊠ Own	er & Opera	tor								
Occupation	al Licensee		esponsible Pa		CP/BSA App					Other:				
5. Mailing	2090 Cou	inty Roa	d 176											
ddress:	City	Steph	enville		State	ТХ		ZIP	76401			ZIP + 4		
					Jule	'^		LIF	,0401			<u> </u>		
.6. Country I	Mailing Inf	ormati	on (if outside	USA)			17. E	-Mail Ad	ddress (if app	licable)				
							kayla7vb@gmail.com							
						- 1								

TCEQ-10400 (11/22) Page 1 of 3

20. Fax Number (if applicable)

19. Extension or Code

(254) 485-2956		(C) =
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SECTION III: Regulated Entity Information

21. General Regulated En	tity Informa	tion (If 'New Reg	gulated Entity" is sele	ected, a new	permit (applicati	ion is als	o 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.)										
Vanden Berge Farms										
23. Street Address of the Regulated Entity:	2345 Count	y Road 177								
Lancas comments to							I*			
(No PO Boxes)	City	Stephenville	State	TX	ZIP	'	76401		ZIP + 4	
24. County	Erath									
		If no Stre	et Address is prov	ided, fields	25-28	are req	juired.			
25. Description to										
Physical Location:										
26. Nearest City	26. Nearest City State Nearest ZIP Code								rest ZIP Code	
Latitude/Longitude are re used to supply coordinate						Standar	ds. (Ge	ocoding of th	e Physical	Address may be
	s where no			accuracy).	•		ds. (Ge		e Physical	Address may be
used to supply coordinate	s where no			accuracy).	•) In Dec		e Physical	Address may be Seconds
used to supply coordinate 27. Latitude (N) In Decima	es where no		provided or to gain	accuracy).	Longit) In Dec	cimal:	e Physical	
used to supply coordinate 27. Latitude (N) In Decima	al: Minutes		provided or to gain	accuracy).	Longite	ude (W) In Dec	cimal: Minutes	e Physical	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees	Minutes 30.	ne have been p	provided or to gain	28.	Longite rees ary NA	ude (W) In Dec	cimal: Minutes	ndary NAIC	Seconds
27. Latitude (N) In Decima Degrees 29. Primary SIC Code	Minutes 30.	ne have been p	provided or to gain	28. Deg 31. Prim	Longite rees ary NA	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits)	Minutes 30. (4 di	Secondary SIC	Seconds Code	28. Deg 31. Prim (5 or 6 di	crees ary NA	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits)	Minutes 30. (4 di	Secondary SIC igits)	Seconds Code	28. Deg 31. Prim (5 or 6 di	crees ary NA	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B	Minutes 30. (4 di	Secondary SIC igits)	Seconds Code	28. Deg 31. Prim (5 or 6 di	crees ary NA	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated 34. Mailing	Minutes 30. (4 di	Secondary SIC igits)	Seconds Code	28. Deg 31. Prim (5 or 6 di	crees ary NA	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B	Minutes 30. (4 di	Secondary SIC igits)	Seconds Code	28. Deg 31. Prim (5 or 6 di	Longita grees ary NA gits)	ude (W) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
used to supply coordinate 27. Latitude (N) In Decima Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated 34. Mailing	Minutes 30. (4 dispusioness of the dispusione	Secondary SIC igits) his entity? (Da	Seconds Code State	28. Deg 31. Prim (5 or 6 di 311513 or NAICS des	Longita grees ary NA gits)	ude (W	ln Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 2022 33. What is the Primary B Disposal of process generated Address:	Minutes 30. (4 dispusioness of the dispusione	Secondary SIC igits) his entity? (Days 16	Seconds Code State	28. Deg 31. Prim (5 or 6 di 311513 or NAICS des	Longita grees ary NA gits)	ICS Cod) In Dec	cimal: Minutes 32. Secon	ndary NAIC	Seconds

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.

TCEQ-10400 (11/22) Page 2 of 3

☐ Dam Safety	afety Districts		☐ Edwards Aquifer		Emission	s Inventory Air	☐ Industrial Hazardous Waste
Municipal S	Municipal Solid Waste Review Air		OSSF	Petroleum Stor		m Storage Tank	☐ PWS
Sludge		Storm Water	☐ Title V Air		Tires		Used Oil
☐ Voluntary (Cleanup		☐ Wastewater Agricul	ture	☐ Water Ri	ghts	Other:
SECTIO	VI TV. D.	onaror Inf	iormation	· · · · · · · · · · · · · · · · · · ·			
SECITO	V IV: Pr	eparer Inf	<u>Ormation</u>				
40. Name:	Corey Mullin			41. Title:	Consult	tant	
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Ma	il Address		
(254) 485-3892	4) 485-3892 (254) 965-8000		(254) 965-8000	cmullin@e	enviroag.cor	n	
SECTIO	VV: Au	thorized S	ionature				
6. By my signatu	re below, I certif	y, to the best of my kno		•		•	e, and that I have signature authority ntified in field 39.
Company:	Vanden B	Berge Farms		Job Title:	Owne	ŧr	
Name (In Print)	: Kayla Var	nden Berge		1		Phone:	(254) 485- 2956
Signature:	Kex	a ander	Be			Date:	11/8/24
	1						1 1

TCEQ-10400 (11/22) Page 3 of 3

A.C: PLAIN LANGUAGE SUMMARY

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

Vanden Berge Farms located at 2345 CR 177 in Stephenville, Texas operates in a symbiotic relationship with Schreiber Foods, Inc., focusing on the environmental management of by-products from dairy food manufacturing. The farm's activities involve the storage and land application of treated effluent from Schreiber Foods, which specializes in cheese production.

At Schreiber Foods, the wastewater undergoes a comprehensive treatment process before it is sent to Vanden Berge Farms. Initially, the process water is collected and passed through monitoring stations. Here, a bar screen is employed for the removal of solids, followed by a dissolved air flotation tank which further eliminates solids. The domestic wastewater is separately treated using a chlorination system to disinfect it before it merges with the process wastewater at a lift station. This combined effluent is then directed to a sophisticated storage/treatment system. It consists of an aeration lagoon with a capacity of 3 million gallons and equipped with a 200 horsepower aeration pump. Additionally, there are two more aeration lagoons, each with the same storage capacity and 60 horsepower of aeration equipment, and a large 13.9 million gallon storage lagoon. After treatment, the effluent is stored and then pumped to Vanden Berge Farms. It is crucial to note that Vanden Berge Farms does not treat this wastewater; they only store and apply the already treated wastewater from Schreiber Foods to their land application fields that consist of 223 acres of coastal bermudagrass and sorghum.

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

Vanden Berge Farms, ubicada en 2345 CR 177 en Stephenville, Texas, opera en una relación simbiótica con Schreiber Foods, Inc., enfocándose en la gestión ambiental de subproductos de la fabricación de alimentos lácteos. Las actividades de la granja implican el almacenamiento y aplicación al suelo de efluentes tratados de Schreiber Foods, que se especializa en la producción de queso.

En Schreiber Foods, las aguas residuales se someten a un proceso de tratamiento integral antes de enviarlas a Vanden Berge Farms. Inicialmente, el agua del proceso se recolecta y pasa a través de estaciones de monitoreo. Aquí, se emplea una criba de barras para la eliminación de sólidos, seguida de un tanque de flotación de aire disuelto que elimina aún más los sólidos. Las aguas residuales domésticas se tratan por separado mediante un sistema de cloración para desinfectarlas antes de fusionarse con las aguas residuales del proceso en una estación de bombeo. Este efluente combinado luego se dirige a un sofisticado sistema de almacenamiento/tratamiento. Consiste en una laguna de aireación con capacidad de 3 millones de galones y equipada con una bomba de aireación de 200 caballos de fuerza. Además, hay dos lagunas de aireación más, cada una con la misma capacidad de almacenamiento y 60 caballos de fuerza de equipo de aireación, y una gran laguna de almacenamiento de 13.9 millones de galones. Después del tratamiento, el efluente se almacena y luego se bombea a Vanden Berge Farms. Es fundamental tener en cuenta que Vanden Berge Farms no trata estas aguas residuales; solo almacenan y aplican las aguas residuales ya tratadas de Schreiber Foods a sus campos de aplicación terrestre que consisten en 223 acres de bermuda y sorgo costeros.

A.D: PUBLIC INVOLVEMENT PLAN



Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening
New Permit or Registration Application
New Activity - modification, registration, amendment, facility, etc. (see instructions)
If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.
Section 2. Secondary Screening
Requires public notice,
Considered to have significant public interest, <u>and</u>
Located within any of the following geographical locations:
AustinDallas
Fort Worth
Houston San Antonio
West Texas
Texas Panhandle
Along the Texas/Mexico Border Other are graphical larger and add to decided an area has been also been as a second and a second a
Other geographical locations should be decided on a case-by-case basis
If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.
Public Involvement Plan not applicable to this application. Provide brief explanation.

TCEQ-20960 (02-09-2023)

Section 3. Application Information
Type of Application (check all that apply):
Air Initial Federal Amendment Standard Permit Title V
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire Radioactive Material Licensing Underground Injection Control
Water Quality
X Texas Pollutant Discharge Elimination System (TPDES)
Texas Land Application Permit (TLAP)
State Only Concentrated Animal Feeding Operation (CAFO)
Water Treatment Plant Residuals Disposal Permit
Class B Biosolids Land Application Permit
Domestic Septage Land Application Registration
Water Rights New Permit
New Appropriation of Water
New or existing reservoir
Amendment to an Existing Water Right
Add a New Appropriation of Water
Add a New or Existing Reservoir
Major Amendment that could affect other water rights or the environment
Section 4. Plain Language Summary
Provide a brief description of planned activities.
Vandan Parga Farma is not to implement a quatainable invigation atvatogy by utilizing treated
Vanden Berge Farms is set to implement a sustainable irrigation strategy by utilizing treated wastewater from the neighboring Schreiber Foods, Inc. facility. This initiative is designed to harness the nutrient-rich effluent as a supplemental water source for the cultivation of coastal bermudagrass. The practice aligns with environmentally responsible agriculture, aiming to reduce freshwater usage and enhance soil fertility. By recycling wastewater, Vanden Berge Farms not only conserves valuable water resources but also leverages the inherent nutrients to support the growth of their bermudagrass crops, which are often used for forage.

Section 5. Community and Demographic Information
Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.
Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.
Stephenville
(City)
Erath
(County)
(Census Tract) Please indicate which of these three is the level used for gathering the following information. City Census Tract
(a) Percent of people over 25 years of age who at least graduated from high school
88.9%
(b) Per capita income for population near the specified location
\$24,810
(c) Percent of minority population and percent of population by race within the specified location
White - 75.6%. Black or African American - 3.29%. Hispanic - 12.7%. Two or More Races - 2.11%. Other 2.68%. Asian - 1.3%. Indian - 1.6%. Multiracial - 0.72%
(d) Percent of Linguistically Isolated Households by language within the specified location
0%
(e) Languages commonly spoken in area by percentage
English - 89.4% Spanish - 10.6%
(f) Community and/or Stakeholder Groups
N/A
(g) Historic public interest or involvement $\ensuremath{\mathrm{N/A}}$

Section 6. Planned Public Outreach Activities
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? Yes No
(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?
Yes No
If Yes, please describe.
If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required. (c) Will you provide notice of this application in alternative languages? Yes No
Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.
If yes, how will you provide notice in alternative languages?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)
(d) Is there an opportunity for some type of public meeting, including after notice?
Yes No
(e) If a public meeting is held, will a translator be provided if requested?
Yes No
(f) Hard copies of the application will be available at the following (check all that apply):
TCEQ Regional Office TCEQ Central Office
Public Place (specify)
Section 7. Voluntary Submittal
For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.
Will you provide notice of this application, including notice in alternative languages? Yes No What types of notice will be provided?
Publish in alternative language newspaper Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)
Citic (specify)

A.E: 7.5-MINUTE USGS TOPOGRAPHIC QUADRANGLE

A.E.1 7.5-Minute USGS Topographic Quadrangle Map

Figure A.E.1, 7.5-Minute USGS Topographic Quadrangle Map, Is an original 7.5-Minute USGS Topographic Map of the Stephenville and Knob Hill, Texas Quadrangles. This map shows the production areas, irrigation sites and a 1-mile radius.

Figure A.E.1: 7.5-Minute USGS Topographic Quadrangle Map

A.F: AFFECTED LANDOWNER INFORMATION

A.F.1 Adjacent Landowners Map

Figure A.F.1 shows the information required in item 1.a. of the Industrial Administrative Report 1.1. Property boundaries were obtained from the Erath County Appraisal District Interactive Map as of August 2024. The tracts identified on the map correspond to Table A.F.1, below.

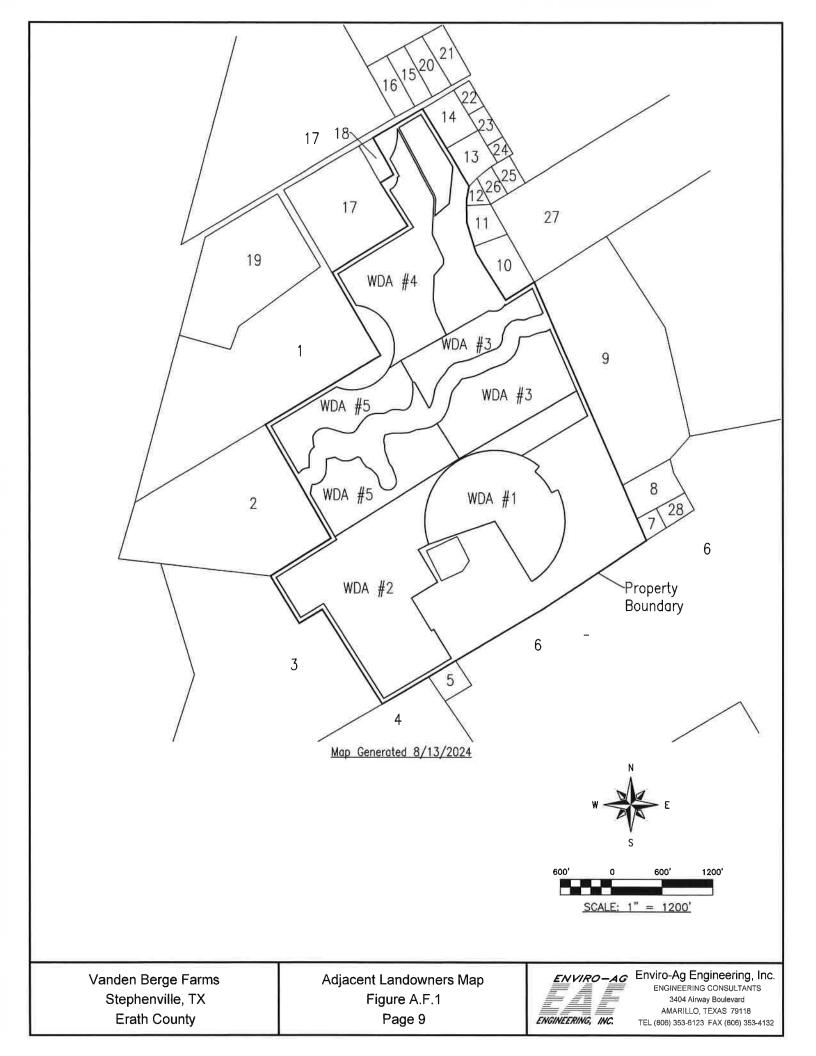
A.F.2 Landowners List

The landowner names and addresses presented in Table A.F.1 was obtained from the Erath County Appraisal District Property Search web databases, retrieved 8/2024.

Table A.F.1. Adjacent Landowners

Map Property ID	Owner Name	Mailing Address		
1	Schreiber Foods, Inc.	PO Box 19010 Green Bay WI 54307-9010		
2	Bolling Curtis Allen Trust & Richard Bolling EST	1530 Bates Stephenville, TX 76401		
3	Keith & Vanessa Halford	1817 CR 177 Stephenville, TX 76401		
4	Board Of Regents of the TX A&M University System	301 Tarrow Street 6 th Floor College Station, TX 77840-7896		
5	Karen & Roynold Lawson	2282 CR 177 Stephenville, TX 76401		
6	KBBC Development, LLC	2121 McClendon Rd. Weatherford, TX 76088		
7	Sherman & Thetis Edwards	3397 CR 177 Stephenville, TX 76401		
8	Jo Ann McCgirl	3717 CR 177 Stephenville, TX 76401		
9	Kenneth & Linda Gifford	4171 CR 177 Stephenville, TX 76401		
10	Bernie & Melodee Ray	375 PR 1611 Stephenville, TX 76401		
11	Paul & April McCourt	144 W Panorama La Grange, TX 78945		
12	Glynda Gordon	10412 Maria Dr. Ft. Worth, TX 76108-4680		
13	Pipal Construction, LLC	547 Comanche CR 343 Dublin, TX 76446		
14	Rodda Schara	1002 E Blanco Rd. #A Boerne, TX 78006		
15	Joshua & Kylyn Graves	2235 CR 176 Stephenville, TX 76401		

Map Property ID	Owner Name	Mailing Address
16	Stenton & Randi Posas	2125 CR 176
1.7		Stephenville, TX 76401
17	Nell Gordon Properties, LLC	114 Byron Nelson St. Stephenville, TX 76401
18	Jeffrey Hodges	1896 CR 176
, 0		Stephenville, TX 76401
19	SFSTTX001, LLC	PO Box 19010
		Green Bay, WI 54307-9010
20	Tracy Brown	2345 CR 176
		Stephenville, TX 76401
21	Russell & Rhonda Bare	2385 CR 176
		Stephenville, TX 76401
22	Gary Schaffer	148 CR 477
		Stephenville, TX 76401
23	Greg & Melissa Thompson	372 CR 477
	Estate	Stephenville, TX 76401
24	Rebecca & Ernest Van Diest	444 CR 477
		Stephenville, TX 76401
25	Sheryl & Troy Truss	507 CR 477
		Stephenville, TX 76401
26	Norbert & Rebeckah Staudt	101 PR 1611
		Stephenville, TX 76401
27	Lee Shipp	306 PR 881
		Stephenville, TX 76401
28	Sierra Carr	3471 CR 177
		Stephenville, TX 76401



A.G: PHOTOGRAPHS

A.G.1 Photograph Location Map

Figure A.G.1, Photograph Location Map, shows the location of each photograph and the direction the camera was facing when the photograph was taken.

A.G.2 Photographs

Figures A.G.2a-b, Photographs, are original photographs of the proposed effluent disposal sites and production area.



Map Generated 8/13/2024

Legend:

Denotes Photograph Location



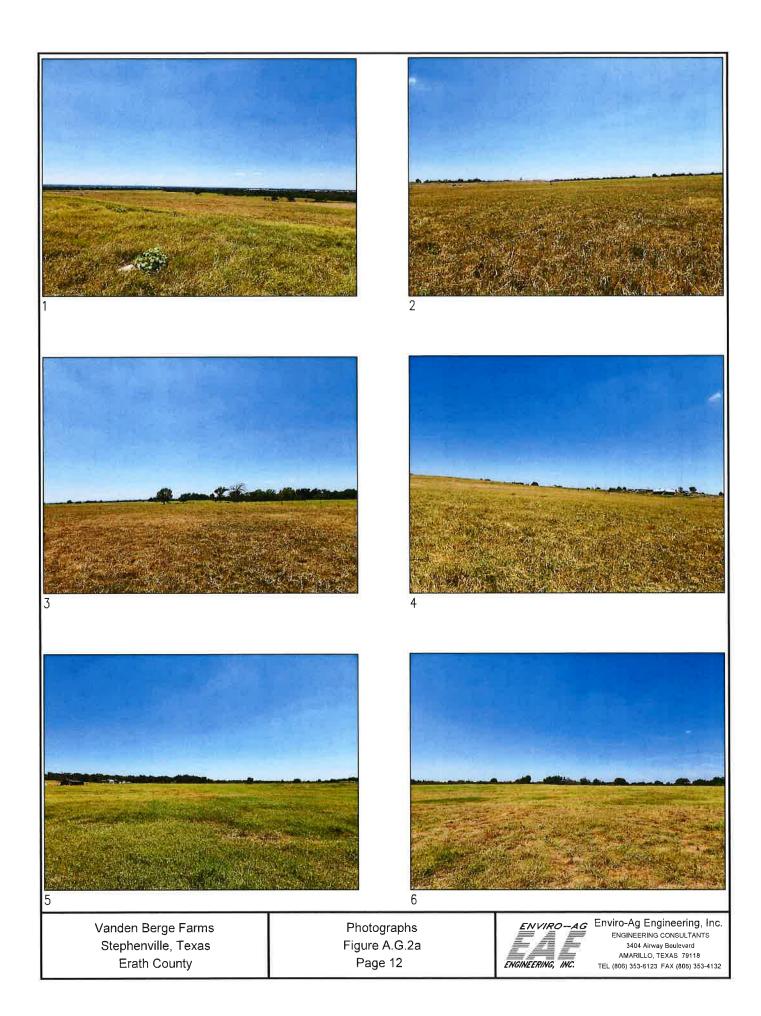
Source: USDA-NRCS. Geospatial Data Gateway. Available at: http://datagateway.nrcs.usda.gov/. Digital Raster Graphic County Mosaic by NRCS — Accessed November 2017. 1,200'

Vanden Berge Farms Stephenville, TX **Erath County**

Photograph Location Map Figure A.G.1 Page 11



ENVIRO-AG Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u> available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

Vanden Berge Farms operates symbiotic with Schreiber Foods, Inc., focusing on the environmental management of by-products from dairy food manufacturing. The farm's activities involve the storage and land application of treated effluent from Schreiber Foods, which specializes in cheese production. This process is a form of waste management and recycling, as it repurposes the water waste into a beneficial resource for agricultural use. The industrial codes provided, such as SIC 2022 and 2023 and NAICS 311513 and 31514, classify these businesses under the categories of dairy product manufacturing and cheese production, highlighting their roles in the food manufacturing sector and their commitment to integrating environmental practices into their operations.

b. Describe all wastewater-generating processes at the facility.

 $\frac{https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_st}{eps.html}$

c. Provide a list of raw materials, major intermediates, and final products handled at the facility. Materials List Raw Materials N/A N/A Attachment: Click to enter text. d. Attach a facility map (drawn to scale) with the following information:
Raw Materials N/A Stackment: Click to enter text.
Attachment: Click to enter text.
d. Attach a facility map (drawn to scale) with the following information:
 Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
• The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.
Attachment: <u>T.A</u>
e. Is this a new permit application for an existing facility?
□ Yes ⊠ No
If yes , provide background discussion: Click to enter text.

	level.	
	⊠ Yes □ No	
	List source(s) used to determine 100-year frequency flood plain: FEMA Map ID: 480218008	BB
	If no , provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.	
	Attachment: <u>T.B.</u>	
g.	For new or major amendment permit applications, will any construction operations result in a discharge of fill material into a water in the state?	lt
	\square Yes \boxtimes No \square N/A (renewal only)	
h.	If yes to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fi permit?	11
	□ Yes □ No	
	If yes , provide the permit number: Click to enter text.	
	If no , provide an approximate date of application submittal to the USACE: Click to enter	
	text.	
It		
	em 2. Treatment System (Instructions, Page 40)	29

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: T.A.1

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater	impoundments (e.g., la	agoons or ponds?)
---	------------------------	-------------------

⊠ Yes □ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a** - **3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a - 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (T), Disposal (**D**), Containment (**C**), or Evaporation (E).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter Y for yes. Otherwise, enter N for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter Y for yes. Otherwise, enter N for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	Storage			
Associated Outfall Number	1			
Liner Type (C) (I) (S) or (A)	С			
Alt. Liner Attachment Reference	N/A			
Leak Detection System, Y/N	N			
Groundwater Monitoring Wells, Y/N	N			
Groundwater Monitoring Data Attachment	N			
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y			
Length (ft)	350			

Parameter	Pond #	Pond #	Pond #	Pond #
Width (ft)	300			
Max Depth From Water Surface (ft), Not Including Freeboard	12			
Freeboard (ft)	2			
Surface Area (acres)	3.64			
Storage Capacity (gallons)	8,400,000			
40 CFR Part 257, Subpart D, Y/N	No			
Date of Construction	2010			

Attachment: T.C

The following information (**Items 3.b** – **3.e**) is required only for **new or proposed** impoundments.

items. If attached, check yes in the appropriate box. Otherwise, check no or no designed .							
	1.	Lin	er data				
		\boxtimes	Yes		No		Not yet designed
	2.	Lea	k detect	ion s	ystem or	grou	indwater monitoring data
			Yes	\boxtimes	No		Not yet designed

b. For new or proposed impoundments, attach any available information on the following

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal highwater table in the shallowest water-bearing zone.

Not yet designed

Attachment: Click to enter text.

No

3. Groundwater impacts

Yes

For TLAP applications: Items 3.c - 3.e are not required, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area I, evaporation pond E, or subsurface drainage system S by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)		
I1	32.252953°	-98.175865°		
I2	32.250234°	-98.181426°		
I3	32.257028°	-98.175490°		
I4	32.261027°	-98.179119°		
15	32.256366°	-98.181642°		

Outfall Location Description

Outfall No.	Location Description

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point			

Outfall Flow Information - Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)	
I1-I5			No Limit	No limit	6/1/2025	

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)

Outfall Discharge - Method and Measurement

Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
Y	N	Flow Meter
	Y	Y N

Outfall Discharge - Flow Characteristics

Outfall No.		Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
I1-I5	Y	N	Y	24	30	12

Outfall Wastestream Contributions

Outfall No. S-1

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Storage	No Limit	N/A

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow		

Volume (MGD)	Percent (%) of Total Flow
nce-Through Coc	ling Water
	Once-Through Cooructions, Page 43)

a.	Indicate if the facility currently or proposes to:	
----	--	--

Yes 🛛 No Use cooling towers that discharge blowdown or other wastestreams

Yes \boxtimes No Use boilers that discharge blowdown or other wastestreams

Yes \boxtimes No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 is required.

- b. If yes to any of the above, attach an SDS with the following information for each chemical additive.
 - Manufacturers Product Identification Number
 - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
 - Chemical composition including CASRN for each ingredient
 - Classify product as non-persistent, persistent, or bioaccumulative
 - Product or active ingredient half-life
 - Frequency of product use (e.g., 2 hours/day once every two weeks)
 - Product toxicity data specific to fish and aquatic invertebrate organisms

• Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: Click to enter text.

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers			
Boilers			

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at $40 \ CFR \ \S \ 122.26(b)(14)$, commingled with any other wastestream?

□ Yes ⊠ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a.	Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
	□ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
	☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
	□ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
	☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
	☐ Facility is a POTW. Complete Worksheet 5.0.
	☐ Domestic sewage is not generated on-site.
	□ Other (e.g., portable toilets) specify and Complete Item 7 b; Click to enter text

b.	b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.								
Do	Domestic Sewage Plant/Hauler Name								
P	Plant/Hauler Name Pe	Permit/Registration No.							
It	Item 8. Improvements or Compliance/E Requirements (Instructions, Pag								
a.	a. Is the permittee currently required to meet any implement enforcement?	ntation schedule for compliance or							
	□ Yes ⊠ No								
b.	b. Has the permittee completed or planned for any improve \square Yes \boxtimes No	ements or construction projects?							
c.	c. If yes to either 8.a or 8.b, provide a brief summary of the update: Click to enter text.	e requirements and a status							
It	Item 9. Toxicity Testing (Instructions, P	age 45)							
Ha on	Have any biological tests for acute or chronic toxicity been non a receiving water in relation to the discharge within the la	nade on any of the discharges or ast three years?							
	□ Yes ⊠ No								
If	If \mathbf{yes} , identify the tests and describe their purposes: Click to	o enter text.							
	Additionally, attach a copy of all tests performed which hav or EPA. Attachment: Click to enter text.	e not been submitted to the TCEQ							
It	Item 10. Off-Site/Third Party Wastes (In	structions, Page 45)							
a.	a. Does or will the facility receive wastes from off-site sour disposal on-site via land application, or discharge via a p	ces for treatment at the facility, ermitted outfall?							
	⊠ Yes □ No								
	If yes , provide responses to Items 10.b through 10.d belo	If yes , provide responses to Items 10.b through 10.d below.							
	If no , proceed to Item 11.								
b.	o. Attach the following information to the application:								
	 List of wastes received (including volumes, characteri wastes). 	zation, and capability with on-site							
	 Identify the sources of wastes received (including the generators). 	legal name and addresses of the							

Description of the relationship of waste source(s) with the facility's activities.

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commit with this facility's wastewater after final treatment and prior to discharge via the fin outfall/point of disposal?								
		Yes	\boxtimes	No				
		If yes , provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity. Attachment: Click to enter text.						
	Attach							
d.	. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?							
		Yes	\boxtimes	No				
If	yes, Wo	rksheet	6.0 o	of this application is requ i	ired.			
It	em 1	1. Rad	dioa	ctive Materials (I	nstru	ctions. Page 46)		
a.	Are/w			,	, stored,	or processed at this facility?		
		Yes	\boxtimes	No				
				wing table to provide the rest that may be present. Pro		f one analysis of the effluent for all oults in pCi/L.		
Ra	dioactiv	e Materia	als Mi	ned, Used, Stored, or Proces	ssed			
- D	adioact	Inna Mark						
K	auioaci	ive Mat	erial l	Name		Concentration (pCi/L)		
K	auioaci	ive mat	erial I	Name		Concentration (pCi/L)		
R	auioaci	ive mat	erial f	Name		Concentration (pCi/L)		
R	auioaci	ive Mat	erial	Name		Concentration (pCi/L)		
R	autoact	ave Mat	erial	Name		Concentration (pCi/L)		
	Does t radioa radioa	he appli ctive ma ctive ma	cant (or anyone at the facility h	ischarge	knowledge or reason to believe that , including naturally occurring		
	Does tradioa radioa Ye	he appli ctive ma ctive ma es \square use the ctive ma	cant outerial terial No follow	or anyone at the facility has may be present in the design the source waters or wing table to provide the source water the so	ischarge on the fa results o ovide res	knowledge or reason to believe that , including naturally occurring		
b.	Does t radioa radioa Yes, radioa inform	he appli ctive ma ctive ma es □ use the ctive ma aation pr	cant o iterial No follov iterial rovide	or anyone at the facility has may be present in the desin the source waters or wing table to provide the set that may be present. Pred in response to Item 11.	ischarge on the fa results o ovide res	knowledge or reason to believe that including naturally occurring acility property? If one analysis of the effluent for all cults in pCi/L. Do not include		
b.	Does t radioa radioa Yes, radioa inform	he appli ctive ma ctive ma es □ use the ctive ma	cant o iterial No follov iterial rovide	or anyone at the facility has may be present in the desin the source waters or wing table to provide the set that may be present. Pred in response to Item 11.	ischarge on the fa results o ovide res	knowledge or reason to believe that , including naturally occurring acility property? f one analysis of the effluent for all		
b.	Does t radioa radioa Yes, radioa inform	he appli ctive ma ctive ma es □ use the ctive ma aation pr	cant o iterial No follov iterial rovide	or anyone at the facility has may be present in the desin the source waters or wing table to provide the set that may be present. Pred in response to Item 11.	ischarge on the fa results o ovide res	knowledge or reason to believe that including naturally occurring acility property? If one analysis of the effluent for all cults in pCi/L. Do not include		
b.	Does t radioa radioa Yes, radioa inform	he appli ctive ma ctive ma es □ use the ctive ma aation pr	cant o iterial No follov iterial rovide	or anyone at the facility has may be present in the desin the source waters or wing table to provide the set that may be present. Pred in response to Item 11.	ischarge on the fa results o ovide res	knowledge or reason to believe that including naturally occurring acility property? If one analysis of the effluent for all cults in pCi/L. Do not include		
b.	Does t radioa radioa Yes, radioa inform	he appli ctive ma ctive ma es □ use the ctive ma aation pr	cant o iterial No follov iterial rovide	or anyone at the facility has may be present in the desin the source waters or wing table to provide the set that may be present. Pred in response to Item 11.	ischarge on the fa results o ovide res	knowledge or reason to believe that including naturally occurring acility property? If one analysis of the effluent for all cults in pCi/L. Do not include		

Attachment: $\underline{T.I}$

Item 12. Cooling Water (Instructions, Page 46)

a.	Do	es the faci	lity use	or pro	pose to	use wate	r for cooli	ng purposes?	
		□ Yes	\boxtimes	No					
	If 1	10 , stop he	ere. If ye	s, com	iplete It	ems 12.b	thru 12.f.		
b.	Co	oling wate	r is/will	be obt	tained f	rom a gro	oundwater	source (e.g., on-site	e well).
		□ Yes	\boxtimes	No					
	If y	v es , stop h	ere. If n	o, con	tinue.				
c.	Co	oling Wate	r Suppli	ier					
	1.	Provide the supply wa						or the CWIS that su	pplies or will
		g Water Int	ake Stru	cture(s) Owner	(s) and Op	erator(s)		
	WIS								
	wn								
0	per	ator							
	2.		Yes	\boxtimes	No			ter Supplier (PWS) n No. and stop here	e PWS No Click to
		enter text		, -c, p	10.10.0			arror and otop mere	er <u>ryto rtor</u> enter to
	3.	Cooling w	ater is/	will be	obtaine	ed from a	reclaimed	water source?	
			Yes	\boxtimes	No				
		If no , context.	tinue. If	yes , p	rovide	the Reuse	Authoriza	ation No. and stop	here: Click to enter
	4.	Cooling w	ater is/	will be	obtaine	ed from a	n Indepen	dent Supplier	
			Yes	\boxtimes	No				
			CWIS tl	hat is/				ial intake flow of the er for cooling purp	
d.	31	6(b) Genera	al Criter	ria					
	1.						oling purp or greater	ooses to the facility	has or will have a
			Yes	\boxtimes	No				
	2.						n by the Cy nnual aver	WIS is/will be used age basis.	at the facility
			Yes	\boxtimes	No				

	3.	The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in 40 CFR § 122.2.
		□ Yes ⊠ No
		If no , provide an explanation of how the waterbody does not meet the definition of Waters of the United States in 40 CFR § 122.2: Click to enter text.
		to all three questions in Item 12.d, the facility meets the minimum criteria to be subject full requirements of Section 316(b) of the CWA. Proceed to Item 12.f .
be	sul	to any of the questions in Item 12.d, the facility does not meet the minimum criteria to bject to the full requirements of Section 316(b) of the CWA; however, a determination is red based upon BPJ. Proceed to Item 12.e .
e.		te facility does not meet the minimum requirements to be subject to the fill requirements Section 316(b) and uses/proposes to use cooling towers.
		Yes □ No
		yes, stop here. If no , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to ow for a determination based upon BPJ.
f.	Oil	and Gas Exploration and Production
	1.	The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.
		□ Yes □ No
		If yes , continue. If no , skip to Item 12.g.
	2.	The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).
		□ Yes □ No
		If yes , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If no , skip to Item 12.g.3.
g.	Co	mpliance Phase and Track Selection
	1.	Phase I – New facility subject to 40 CFR Part 125, Subpart I
		□ Yes □ No
		If yes , check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
		□ Track I - AIF greater than 2 MGD, but less than 10 MGD
		 Attach information required by 40 CFR §§ 125.86(b)(2)-(4).
		□ Track I - AIF greater than 10 MGD
		 Attach information required by 40 CFR § 125.86(b).
		□ Track II
		• Attach information required by 40 CFR § 125.86(c).
		Attachment: Click to enter text.

	Phase	- Existing facility subject to 40 CFR Part 125, Subpart J
		l Yes □ No
	If yes,	omplete Worksheets 11.0 through 11.3, as applicable.
3.	Phase	I – New facility subject to 40 CFR Part 125, Subpart N
		l Yes □ No
	If yes , inform	heck the box next to the compliance track selection and provide the requested tion.
	□ Tr	ck I – Fixed facility
	•	Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
	□ Tr	ck I – Not a fixed facility
	•	Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).
	□ Tı	ck II – Fixed facility
	•	Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.
	Attack	nent: Click to enter text.
Iten	n 13.	Permit Change Requests (Instructions, Page 48)
		ly applicable to existing permitted facilities.
a. Is	the faci	ty requesting a major amendment of an existing permit?
u. 10	circ ruci	ty requesting a major amenament of an emoting permit.
	□ Ye	⊠ No
in	yes , list formati	No each request individually and provide the following information: 1) detailed regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed n regarding the scope of each request and 2) a justification for each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in At	yes , list formation ttach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.
in	yes, list formation tach an	each request individually and provide the following information: 1) detailed a regarding the scope of each request and 2) a justification for each request. supplemental information or additional data to support each request.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

This worksheet **is required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

Item 1. Type of Disposal System (Instructions, Page 69)

Check the box next to the type of land disposal requested by this application:

\boxtimes	Irrigation		Subsurface application
	Evaporation		Subsurface soils absorption
	Evapotranspiration beds	\boxtimes	Surface application
	Drip irrigation system		Other, specify: Click to enter text.

Item 2. Land Application Area (Instructions, Page 69)

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
No Limit	223	Coastal Bermudagrass, Sorghum, and Small Grains	N

Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances
- Justification for not removing existing vegetation to be irrigated

Attachment: T.D

Item 4. Well and Map Information (Instructions, Page 70)

- a. Check each box to confirm the required information is shown and labeled on the attached USGS map:

 - ☑ On-site buildings

 - ☑ Effluent storage and tailwater control facilities
 - Buffer zones
 - All surface waters in the state onsite and within 500 feet of the property boundaries
 - All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries
 - All springs and seeps onsite and within 500 feet of the property boundaries Attachment: T.A
- b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice
1	Domestic	Y	Cased	150—ft Buffer
2	Domestic	Y	Cased	150-ft Buffer
3	Domestic	Y	Cased	150-ft Buffer
4	Domestic	Y	Cased	150-ft Buffer
5	Domestic	Y	Cased	150-ft Buffer
6	Domestic	Y	Cased	150-ft Buffer
7	Domestic	Y	Cased	150-ft Buffer
8	PWS	Y	Cased	500-ft Buffer
9	Domestic	Y	Cased	150-ft Buffer
10	Domestic	Y	Cased	150-ft Buffer
11	Domestic	Y	Cased	150-ft Buffer
12	Domestic	Y	Cased	150-ft Buffer
13	Domestic	Y	Cased	150-ft Buffer
14	Domestic	Y	Cased	150-ft Buffer
15	Domestic	Y	Cased	150-ft Buffer
16	Domestic	Y	Cased	150-ft Buffer

17	Domestic	Y	Cased	150-ft Buffer
18	Domestic	Y	Cased	150-ft Buffer
34	Domestic	Y	Cased	150-ft Buffer
35	Domestic	Y	Cased	150-ft Buffer
36	Domestic	Y	Cased	150-ft Buffer
37	Domestic	Y	Cased	150-ft Buffer
38	Domestic	Y	Cased	150-ft Buffer
39	Domestic	Y	Cased	150-ft Buffer
40	Domestic	Y	Cased	150-ft Buffer
41	Domestic	Y	Cased	150-ft Buffer
42	Domestic	Y	Cased	150-ft Buffer
43	Domestic	Y	Cased	150-ft Buffer
44	Domestic	Y	Cased	150-ft Buffer
45	Domestic	Y	Cased	150-ft Buffer
46	Domestic	Y	Cased	150-ft Buffer

Attachment: T.E.

c. Groundwater monitoring wells or lysimeters are/will be installed around the land application site or wastewater ponds.

Yes	\boxtimes	No
103		TAO

If **yes**, provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.

Attachment: Click to enter text.

d. Attach a short groundwater technical report using *30 TAC § 309.20(a)(4)* as guidance. **Attachment:** T.F

Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

- a. \boxtimes USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.
- b. oxtimes Breakdown of acreage and percent of total acreage for each soil type.
- c. \boxtimes Copies of laboratory soil analyses. Attachment: $\underline{\text{T.G}}$

Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. Completion of Table 14 **is required** for all **renewal** and **major amendment** applications. Complete the table with monitoring data for the previous two years for all parameters

regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 14 fo			o enter tex	t. Sam	ples are	e (check one)): 🗆 (Compo	site		rab
Date (mo/yr)	Daily A Flow (g	vg BOD pd) (mg,		L) (mg	ogen /L)	Conductiv (mmhos/c	m) a	Total acres irrigat	ed	Hydra Applic (acre-f	ulic cation rate cet/mont
which a	re not lis	ted in Tab	le 14.	alysis for	paran	neters regul	ated i	n the o	curre	ent pern	nit
Additional Date (mo		Effluent A	nalysis								
Date (mo	yr)										

Date (mo/yr)				
		M		

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** <u>Click to enter text.</u>

Item 7. Pollutant Analysis (Instructions, Page 72)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): <u>8/28/2024-10/17/2024</u>
- b. \boxtimes Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Complete Tables 15 and 16.

Table 15 for Outfall No.: <u>Schreiber Lagoon</u> Samples are (check one): □ Composite ⊠ Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	ND	49.7	61.1	ND
CBOD (5-day)	ND	21.0	ND	ND
Chemical oxygen demand	240	211	265	576
Total organic carbon	26.4	22.5	22.5	15.1
Dissolved oxygen	8.56	8.90	8.11	8.86
Ammonia nitrogen	2.34	2.79	0.363	0.106
Total suspended solids	132	165	258	347
Nitrate nitrogen	1.89	ND	ND	31.6
Total organic nitrogen	5.09	ND	17	13.1
Total phosphorus	7.46	5.50	8.42	10.3
Oil and grease	ND	ND	ND	ND
Total residual chlorine	ND	0.294	0.135	ND
Total dissolved solids	3720	3350	3260	3840
Sulfate	156	148	157	183
Chloride	1520	1340	1430	1370
Fluoride	ND	ND	ND	ND
Total alkalinity (mg/L as CaCO3)	990	522	865	825
Temperature (°F)				
pH (standard units)	8.77	8.73	8.69	8.20

Table 16 for Outfall No.: <u>Schreiber Lagoon</u> Samples are (check one): □ Composite ⊠ Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (μg/L)
Aluminum, total	0.628	0.580	1.37	0.898	2.5
Antimony, total	ND	ND	ND	ND	5
Arsenic, total	ND	ND	ND	ND	0.5
Barium, total	0.0194	0.0232	0.0348	0.0362	3
Beryllium, total	ND	ND	ND	ND	0.5
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	ND	ND	ND	ND	3
Chromium, hexavalent	ND	ND	ND	ND	3
Chromium, trivalent	ND	ND	ND	ND	N/A
Copper, total	ND	ND	ND	ND	2
Cyanide, available	ND	ND	ND	ND	2/10

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Lead, total	ND	ND	ND	ND	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	ND	ND	ND	ND	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	ND	ND	ND	ND	5.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

This worksheet **is required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

Item 1. Edwards Aquifer (Instructions, Page 73)

- a. Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?
 □ Yes ⋈ No
 If no, proceed to Item 2. If yes, complete Items 1.b and 1.c.
 b. Check the box next to the subchapter applicable to the facility.
 □ 30 TAC Chapter 213, Subchapter A
 □ 30 TAC Chapter 213, Subchapter B
- c. If *30 TAC Chapter 213, Subchapter A* applies, attach **either**: 1) a Geologic Assessment (if conducted in accordance with *30 TAC § 213.5*) **or** 2) a report that contains the following:
 - A description of the surface geological units within the proposed land application site and wastewater pond area.
 - The location and extent of any sensitive recharge features in the land application site and wastewater pond area
 - A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): 223

Design application rate (acre-ft/acre/yr): 3.82

Design application frequency (hours/day): 24

Design application frequency (days/week): 7

Design total nitrogen loading rate (lbs nitrogen/acre/year): 300

Average slope of the application area (percent): 1-3

Maximum slope of the application area (percent): 4.2

Irrigation efficiency (percent): <u>85</u>

Effluent conductivity (mmhos/cm): 1.0

Soil conductivity (mmhos/cm): 6.5

Curve number: 71

Describe the application method and equipment: Pivot & Reel Gun

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** <u>T.H</u>

Item 3. Evaporation Ponds (Instructions, Page 74)

- a. Daily average effluent flow into ponds: Click to enter text. gallons per day
- b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** Click to enter text.

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: Click to enter text.

Area of bed(s) (acres): Click to enter text.

Depth of bed(s) (feet): Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds (include units): Click to enter text.

Description of any lining to protect groundwater: Click to enter text.

- b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** Click to enter text.
- c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** <u>Click to enter text.</u>

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): Click to enter text.

Slopes for application area (percent): Click to enter text.

Design application rate (gpm/foot of slope width): Click to enter text.

Slope length (feet): Click to enter text.

Design BOD5 loading rate (lbs BOD5/acre/day): Click to enter text.

Design application frequency (hours/day): Click to enter text.

Design application frequency (days/week): Click to enter text.

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*. **Attachment:** Click to enter text.

INDUSTRIAL TECHNICAL REPORT

Attachments

Prepared For:

Vanden Berge Farms 2090 CR 176 Stephenville, TX 76401

September 5, 2024

Prepared By:



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T.A: FACILITY MAPS

T.A.1 Process Flow Diagram

Figure T.A.1, Process Flow Diagram, provides an overall schematic of the processes at the site.

T.A.2 Vicinity Map

Figure T.A.2, Vicinity Map, is a general highway map generated in AutoCAD using Tiger Primary and Secondary roads data from geospatial Data Gateway at http://datagateway.nrcs.usda.gov/ (retrieved 2020). The location of the facility is depicted on the map.

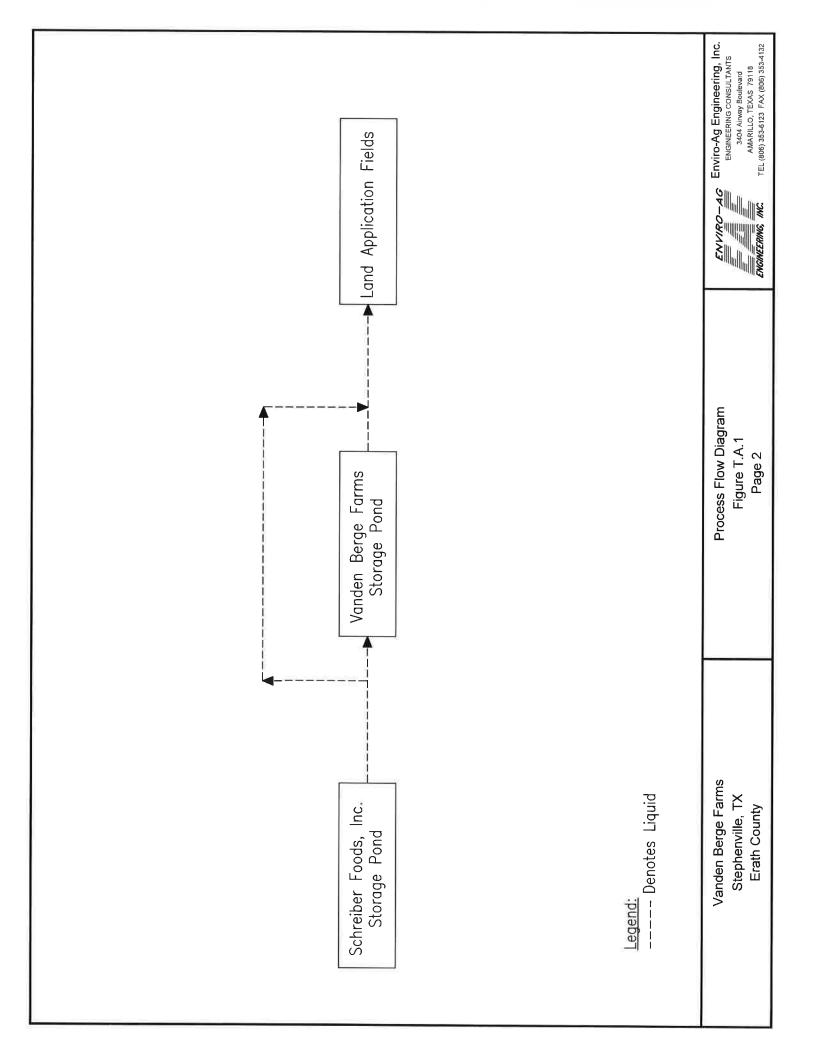
T.A.3 7.5 Minute USGS Map

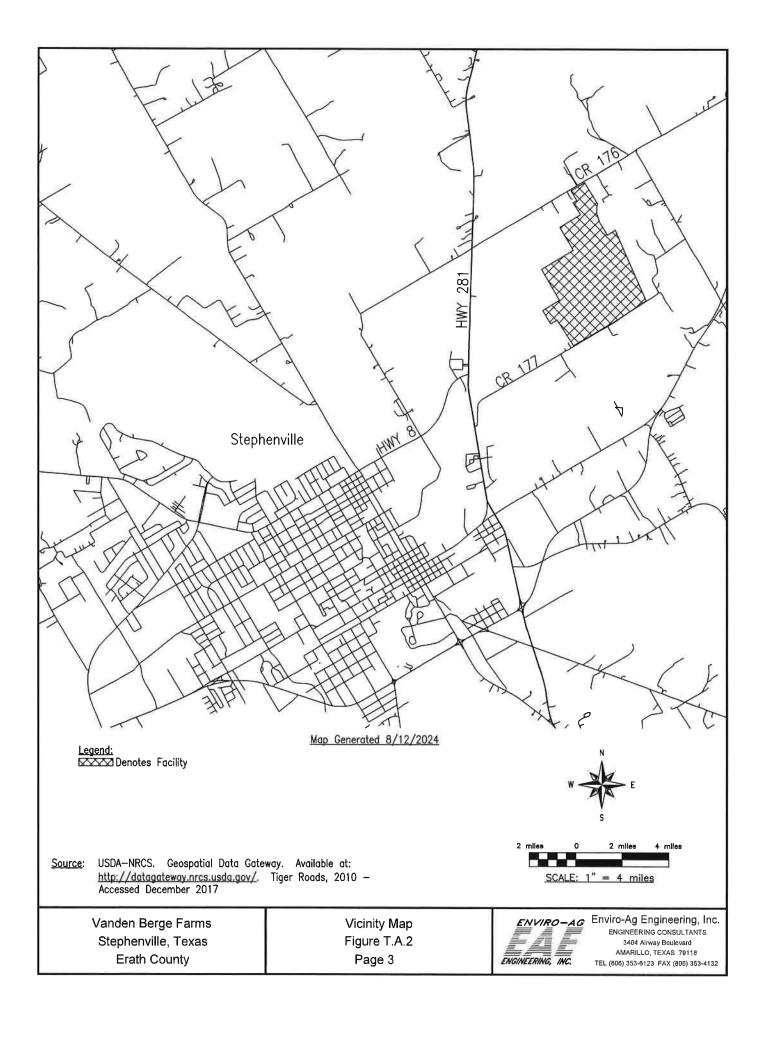
Figure T.A.3, entitled 7.5 Minute USGS Map, is a seamless, high-quality copy of the 7.5-Minute USGS quadrangle map (Stephenville and Knob Hill, TX quadrangles) that shows the boundary of the land owned, operated, or controlled by the facility and used as part of the application; and all springs, lakes, or ponds located on-site and within 1 mile of the property boundary.

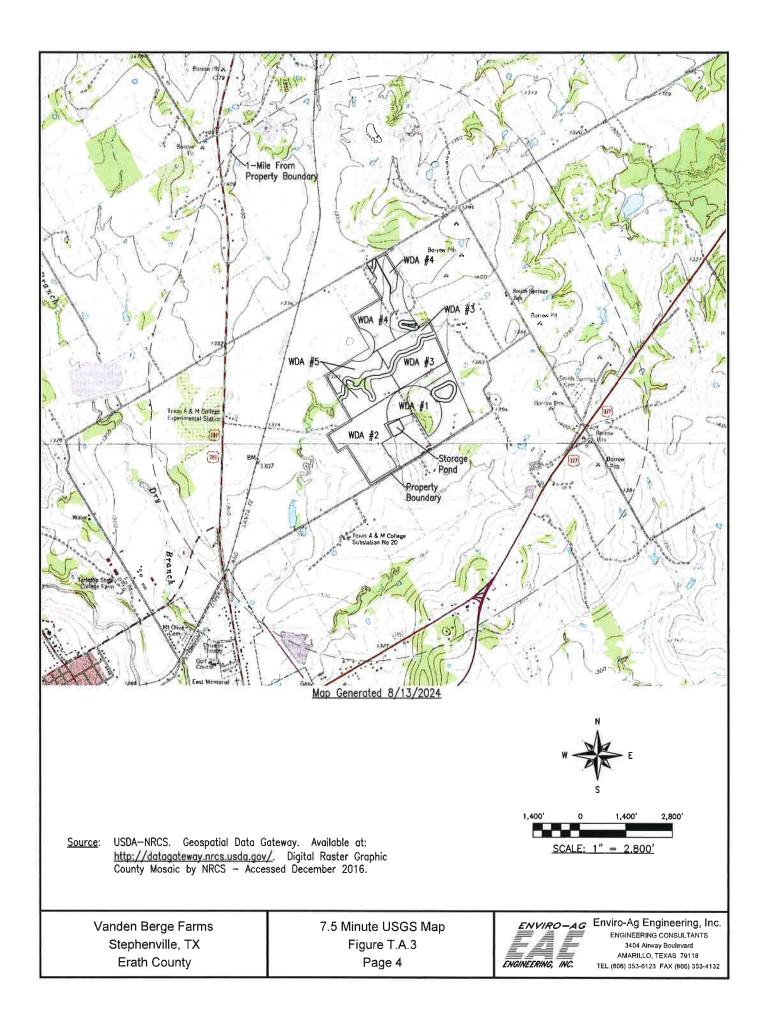
T.A.4 Site Map

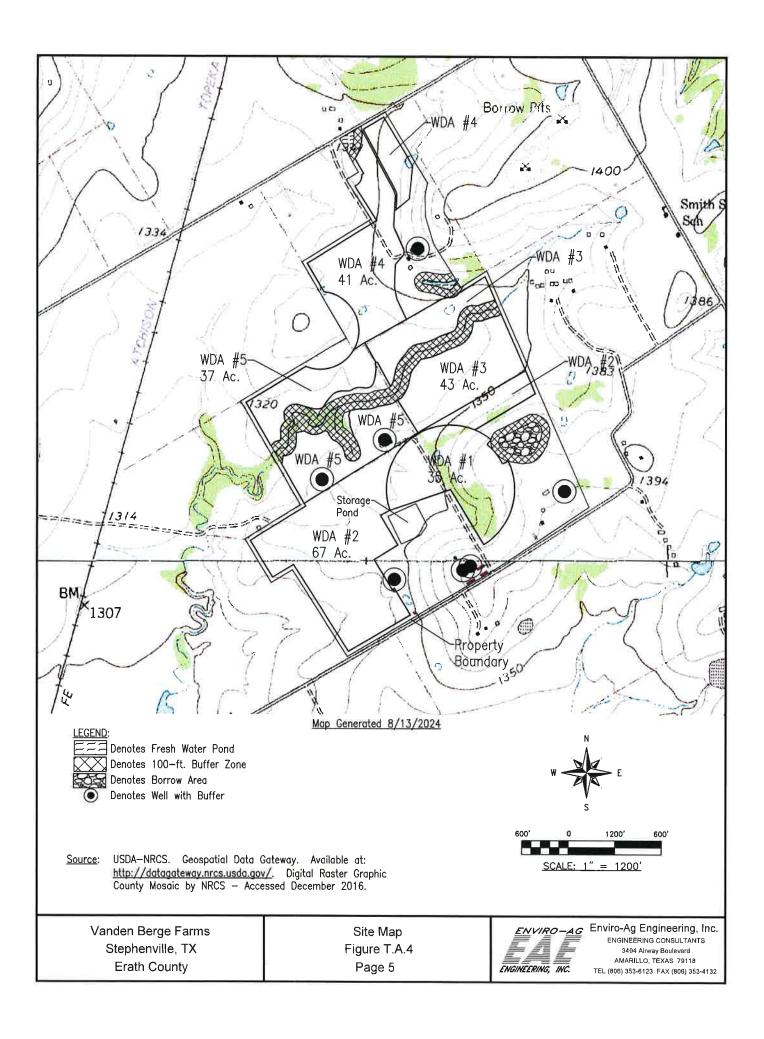
Figure T.A.4, Site Map, is a scaled drawing of the entire property to be permitted showing the locations of the following:

- Storage Pond
- Waste Disposal Areas
- Buffer Zones
- Freshwater Ponds









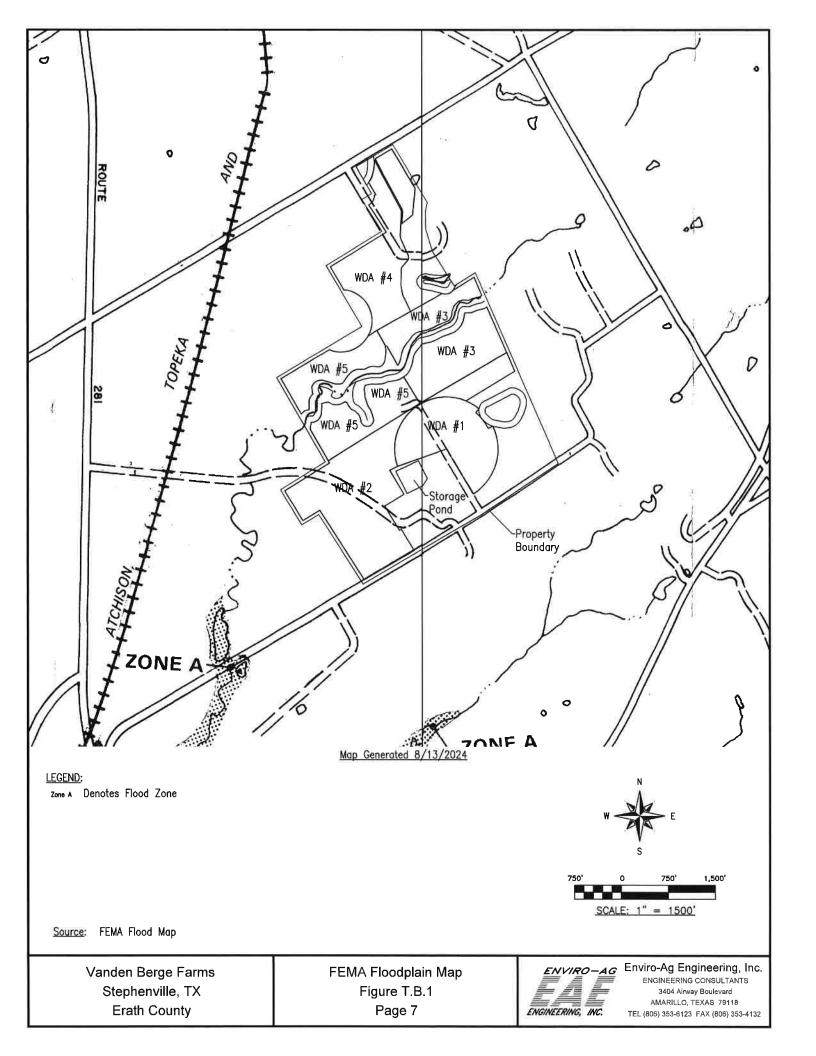
T.B: FLOODPLAIN INFORMATION

T.B.1 FEMA Floodplain Map

Figure T.B.1, FEMA Floodplain Map, shows the storage pond and waste disposal areas overlain on a copy of the FEMA map panels for this area of Erath County.

T.B.2 Protective Measures

According to the FEMA map for Erath County, the storage pond and waste disposal areas are not located in a 100-year floodplain.



T.C: STORAGE POND CERTIFICATIONS



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico: 110 East Mill Road Artesia NM 88210

CERTIFICATION

Schreiber Foods Vanden Berge Erath County, Texas

Capacity Certification - RCS #1

An as-built survey was conducted by Enviro-Ag Engineering, Inc., to determine the total capacity of RCS #1. The capacity was calculated to be:

Structure

Capacity

RCS #1

25.84 acre-feet

Respectfully submitted,

NORMAN H. MULLIN

66107

CICENSE

Vorman Mullin

4/3/24

Norman Mullin, P.E. – License No. 66107 Enviro-Ag Engineering, Inc. – Firm No. 2507

CALCULATION OF SPECIFIC DISCHARGE

SITE:

Schreiber Foods Vanden Berge

NHM

LOCATION:

Erath County, Texas

May '24

STRUCTURE:

RCS #1

This worksheet calculates the specific discharge through a soil liner based on the measured thickness of the installed clay liner and the results of the permeability testing. The maximum allowable specific discharge of the installed 36 inch thick liner at $1.1 \times E$ -06 cm/sec is 0.1587 in/day.

	Hydraulic Conductivity Results of Core Samples						
Laboratory Sample I.D.	6531	6532	6533	6534			
1. Water Depth, feet	11	11	11	11			
2. Liner Thickness, inches	18.0	18.0	18.0	18.0			
Hydraulic Conductivity, cm/sec	4.90E-08	3.70E-08	2.80E-08	3.00E-08			
 Calculated specific discharge, v' 							
Seepage Rate, inches/day	0.0139	0.0105	0.0079	0.0085			
Maximum Seepage Rate, inches/day	0.1587	0.1587	0.1587	0.1587			

NOTES:

- (1) Water depth of the pond in feet.
- (2) Soil liner thickness in inches.
- (3) Hydaulic conductivity of the core sample(s) as determined by flexible wall permeameter in cm/sec (Ref: ASTM D 5084). The following equation is used:

v' = k (H + d) / d

where:

- v' = Specific Discharge of area representative of core sample, inches/day
- d = Measure Liner Thickness at core sample location, feet
- k = Hydaulic Conductivity of liner based on core sample testing, inches/day
- H = Maximum Water Depth, feet
- (4) Maximum Allowable Seepage Rate of 1.1 E-06 cm/sec (0.0374 in/day).

NORMAN H. MULLIN
66107
CENSEO

Norman Mullin, P.E. # 66107 Enviro-Ag Engineering, Inc. TBPE Firm # 2507

T.D: AGRONOMIC MANAGEMENT PLAN

AGRONOMIC MANAGEMENT PLAN WQ0000000000

Prepared For:

Vanden Berge Farms

2090 CR 176

Stephenville, TX 76401

October 28, 2024

Prepared By:



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AGRONOMIC MANAGEMENT PLAN

Purpose

This document supports the Vanden Berge Farms land application of waste as prescribed by the Texas Land Application Permit (TLAP) through the Texas Commission on Environmental Quality (TCEQ). The purpose of this Agronomic Management Plan (AMP) is to illustrate the beneficial use of industrial effluent from Schreiber Foods, Inc. All effluent applications are managed in a manner that ensures environmental stability and maximum crop production.

This plan is updated on an annual basis to address current soil and waste analysis, climatic data, previous water demands and proposed crop water usage for the next plan year. Application rate calculations will be developed and maintained on site for use by the operator to determine application timing and rates.

Background

Vanden Berge Farms is applying for a TLAP authorization through the TCEQ to beneficially irrigate treated effluent from Schreiber Foods, Inc. onto 223 acres of irrigated farmland.

General Objectives of AMP

- Present information pertaining to the effluent, soils, and crops.
- Present irrigation tract(s) layout Figure 1.1.
- Present information pertaining to crop rotations and yield goals to illustrate the appropriateness of the selected crops for use with this project.
- A description of wastewater usage for irrigation. This will include information on actual effluent application rates to meet the crop hydraulic/nutrient demands and maximize crop yield goals.
- An estimation of the annual loading of nutrients supplied by the effluent.
- An overview of wastewater/nutrient storage is needed in the soil profile, and a pre-plant scenario is needed to serve as a starter fertilizer.
- Monitoring soil profiles to ensure no saturated soils are present within 3 feet of the surface.

Overview

Treated effluent from Schreiber Foods, Inc. will be pumped to the storage lagoon. The treated effluent is distributed to high-production farmland that has been typically planted with bermudagrass or Sorghum. These crops are intensively managed for maximum production. The stated crop yield goals will be provided by data from the NRCS or from historical data obtained from the farmer.

The landowner uses management practices to ensure maximized crop production. High residue crops are utilized, and deep tillage is used when necessary to maximize the soil's ability to store and retain water, allowing for maximum root penetration.

Site Features

The regional climate is classified as humid subtropical, with hot summers and mild to cool winters. The growing season averages 220 frost-free days. The average annual rainfall is 30-35 inches and generally occurs during the warm-season months of May, June, July, and August.

Most precipitation occurs during the growing seasons for bermudagrass when evapotranspiration is highest. However, optimum yields can only be achieved through supplemental irrigation of the crops due to low rainfall and high evaporative rates. Most cropping systems require preseason irrigation with growing season application depending upon stored water to produce the maximum yield goals. These are standard operational production practices in this area. The permittee requests preseason irrigation up to 30 days before crop planting to achieve optimum production. This will allow the facility to manage application events to build up a moisture and nutrient profile in the soil before planting. This management tool would reduce the need to use groundwater for pre-water and the costs associated with pre-plant starter fertilizers.

Soils

According to the information contained in the Erath County Soil Survey, soils of the 223-acre irrigation tract consist of; Blanket, Bolar-Denton, Bastsil, Clairette, Fairy-Hico, Frio, Purves-Dugout-Maloterre, Hassle, and Windthorst series. The physical and hydrological properties of these soils are illustrated in Table 1 below. More soil information can be found in supporting documentation.

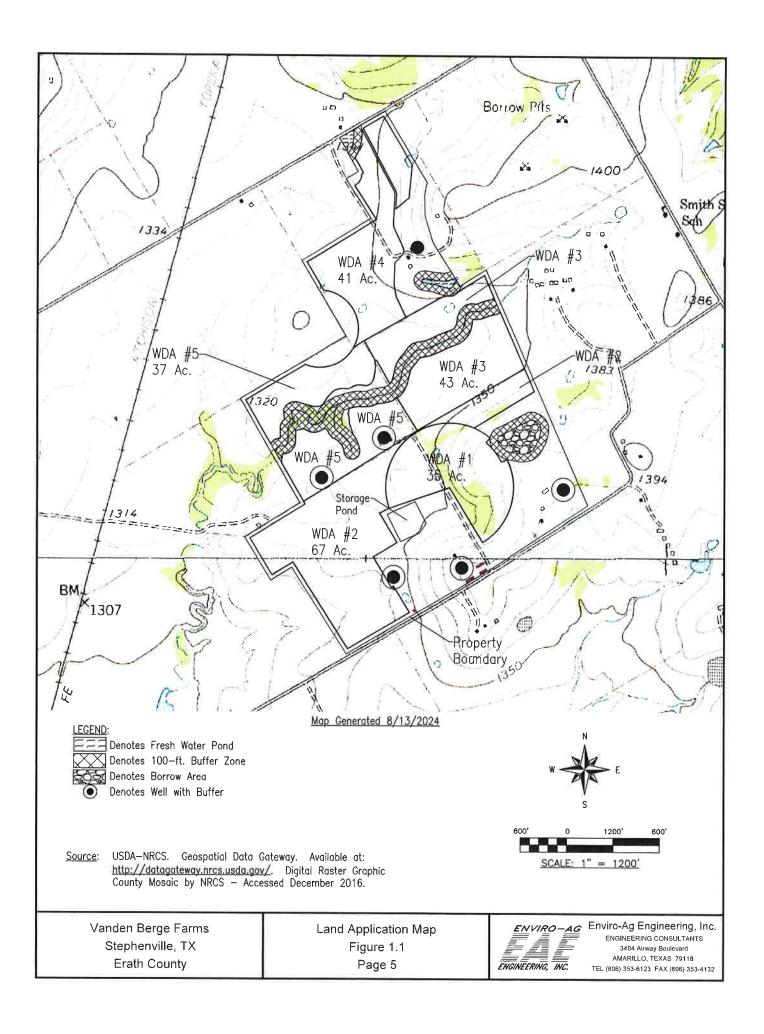
Table 1: Estimated Soil Properties

Soil Series & Map ID	Slope (%)	HSG	Depth (in)	USDA Soil Texture	Permeability / Infiltration Rate(in/hr.)	Available Water Capacity (in/in of soil)
BaB – Blanket	1-3	С	0-14	Clay Loam	0.6-2.0	0.15-0.20
			14-40		0.06-0.6	0.12-0.20
BdC - Bolar	3-5	С	0-16	Clay Loam	0.6-2.0	0.17-0.21
			16-32		0.6-2.0	0.16-0.20
BdC – Denton	3-5	D	0-10	Silty Clay	0.06-0.20	0.11-0.15
			10-28		0.06-0.20	0.09-0.14
			28-32		0.06-0.20	0.09-0.13
BsB — Bastsil	1-3	В	0-8	Sandy Loam	2.0-6.0	0.12-0.16
			8-15		2.0-6.0	0.12-0.16
			15-34		0.6-2.0	0.12-0.16
BsC	3-5	В	0-9	Fine Sandy	2.0-6.0	0.12-0.16
			9-15	Loam	2.0-6.0	0.12-0.16

Soil Series & Map ID	Slope (%)	HSG	Depth (in)	USDA Soil Texture	Permeability / Infiltration Rate(in/hr.)	Available Water Capacity (in/in of soil)
			15-38		0.6-2.0	0.12-0.16
CtB – Clairette	1-3	С	0-4 4-10 10-26	Very Fine Sandy Loam	2.0-6.0 0.6-2.0 0.20-0.6	0.10-0.17 0.15-0.19 0.10-0.18
CtC – Clairette	3-5	С	0-4 4-10 10-26	Loam	0.6-2.0 0.6-2.0 0.20-0.6	0.15-0.19 0.15-0.19 0.10-0.18
FhC2 – Fairy	1-5	В	0-13 13-45	Very Fine Sandy Loam	2.0-6.0 0.6-2.0	0.10-0.17 0.05-0.17
FhC2 – Hico	1-5	В	0-12 12-51	Fine Sandy Loam	2.0-6.0 0.6-2.0	0.10-0.15 0.05-0.17
FriA Frio	0-1	С	0-22 22-40	Silty Clay	0.20-0.6 0.20-0.6	0.12-0.20 0.08-0.16
Pd – Purves	1-20	D	0-8 8-12 12-14	Stony Clay	0.06-0.20 0.06-0.6 0.06-0.6	0.11-0.20 0.08-0.18 0.04-0.07
Pd – Dugout	1-20	D	0-8 8-18	Gravelly Clay	0.20-0.6 0.20-0.6	0.06-0.15 0.07-0.16
Pd – Maloterre	1-20	D	0-8	Gravelly Clay Loam	0.6-2.0	0.06-0.11
WaB – Hassee	1-3	D	0-12 12-50	Fine Sandy Loam	0.6-2.0 0.001-0.06	0.11-0.17 0.12-0.18
WaB2 – Hassee	1-3	D	0-6 6-50	Fine Sandy Loam	0.6-2.0 0.001-0.06	0.11-0.17 0.12-0.18
WkA – Hassee	0-2	D	0-18 18-55	Fine Sandy Loam	0.6-2.0 0.001-0.06	0.11-0.17 0.12-0.18
WnD3 – Windthorst	1-8	С	0-6 6-16- 16-25	Sandy Clay	0.20-2.0 0.20-0.6 0.20-0.6	0.11-0.14 0.15-0.19 0.16-0.20
WoB – Windthorst	1-5	С	0-8 8-33	Very Fine Sandy Loam	2.0-6.0 0.20-0.6 0.20-0.6	0.10-0.17 0.10-0.20 0.10-0.20

As depicted in Table 1, the soils illustrate slow water movement in the lower profiles. Care will be taken to ensure that these limitations are considered when calculating the application rates of specific irrigation areas. Specifically, application rates per application event will be decreased with an increase in the total number of events to ensure that the crops' nutrient and water demands are met.

Currently agricultural practices are in place to maximize crop yields and the ability for the soil to retain and store water. Furthermore, deep tillage occurs periodically, and the soils of the A and B horizons have been mixed thoroughly enough that the surface soils may not resemble those listed in Table 1. Generally, the soil in the area to be used for irrigation illustrates a loamy surface layer (A horizon) underlain by sandy clay loam or clay loam (B horizon). The interface between the A and B horizons is generally abrupt and smooth. In native conditions, this boundary may impede water movement under irrigation, therefore affecting the ability to leach potentially detrimental constituents, such as salts contained in the effluent. Due to these characteristics, the subsoil will be ripped or deep-plowed as needed. It is preferable to rip or deep plow during periods of low soil moisture and just before planting to increase the fracturing of the subsoils, thus increasing the ability of the soils to absorb water (fresh) into the deeper profiles for storage.



Effluent Characteristics

Wastewater Storage

The treated effluent from Schreiber Foods, Inc. will be pumped to the storage lagoon and routed to the land application fields.

Effluent Quality

For the purposes of this plan, the Total Nitrogen content of the effluent to be land-applied is 1.81 lb./ac-in TKN. The Total Phosphorus is 4.10 lb./ac-in as P2O5, based on the effluent samples collected at Schrieber Foods, Inc. Based on the geographical location of the facility and farm practices, the permittee estimates 80% of the total nitrogen is available after volatilization and mineralization.

Effluent Quantity

The average annual amount of effluent available for irrigation is projected to be 70 million gallons (215 ac-ft/yr.).

Annual Cropping Plan

Crop Selection

Vanden Berge Farms aims to grow any of the permitted crops listed in Attachment A. Table 2 illustrates the amount of effluent to be applied based on nitrogen. The total ac-in was derived based upon a crop rotation that depicts the acreages planted to various permitted crops.

The following formula will be utilized to determine the annual application rates based on the effluent's most limiting nutrient content, nutrients in the soil, and crop requirements.

Total nutrient required by crop ((lb./ac)- Soil Test (lb./ac))/ ((lb. per Ac-in of

Nut. in Effl x 0.80)) = Annual Application Rate (Ac-in)

Other Crop Inputs

Supplemental fertilizers may be needed to achieve yield goals, but determinations will be made annually on a field-by-field basis using soil test results. Based on the effluent pH, EC,PAg and sodium content, soil amendments such as elemental sulfur, gypsum, or other inputs may be used to help manage soil pH and salinity.

Vanden Berge Farms Nutrient Budget Table 2

ENVIRO-AG ENGINEERING, INC.

Field ID	Planned Crop Rotation	Crop Yield (1)	Crop Salt Tolerances (2)	Crop N Requirement lb./Ac (3)	0-6" Soil N Residual Ib./Ac (4)	Crop N required lb./Ac (5)	Wastewater Analysis N lb./Ac-in (6)	Adjusted Plant Available N lb./ Ac-in (7)	Ac-In/Ac of Wastewater to apply (8)	Total Gallons/Field (9
WDA #1 (35 acres) Summer	Coastal Hay	3 Cut	8.0-12.0	300	23	277	2,27	1,81	152.9	145,285,889
WDA #2 (67 acres) Summer	Coastal Hay	3 Cut	8_0-12.0	300	11	289	2,27	1,81	159_5	290,167,164
WDA #3 (43 acres) Summer	Sorghum Hay	5 Tons	6.0-8.0	240	4	236	2,27	1,81	130_2	152,074,389
WDA #4 (41 acres) Summer	Coastal Grazing	3 Cut	8,0-12,0	300	13	287	2,27	1,81	158.4	176,336,158
WDA #5 (37 acres) Summer	Coastal Grazing	3 Cut	8.0-12.0	300	2	298	2,27	1,81	164_5	165,231,790

Motec

- (1) Expected yields based on historical data from facility.
- (2) Taken from 30 TAC 309 20(b)(3)(B) Table 3
- (3) From USDA-NRCS Code 590/633 "S Crops" database.
- (4) Taken from annual soil test results from August 2024, All fields will be re-sampled and the annual cropping plan will be updated prior to waste application. It is assumed that residual N will be utilized with the first crop rotation.
- (5) Remainder N required to meet crop demands (crop requirement residual N)
- (6) Estimated N concentration based on wastewater analysis
- (7) Availability of N is calculated utilizing 30 TAC 309C
- (8) Acre inch of wastewater to be applied based lb./ac-n available N (remainder crop N divided by adjusted plant N). No additional fertilizer is required at this rate.
- (8) Application rate to meet crop N requirement
- (9) Total Gallons/Field to be applied (Ac-In/Ac of wastewater x 27154 x Ac = Total Gallons).



Alternative Crop List Attachment A Vanguard Organics, LLC

C 1 V:-11 C1	Nitro	ogen	P2O5		
Crop and Yield Goal	Requirement	Removal	Requirement	Removal	
Alfalfa Hay 10 Tons	530	532	180	101	
Alfalfa Hay 12 Tons	640	638	180	121	
Alfalfa Hay 2 Tons	120	106	35	20	
Alfalfa Hay 4 Tons	210	213	80	40	
Alfalfa Hay 6 Tons	300	319	130	60	
Alfalfa Hay 8 Tons	420	426	180	81	
Bahia 2 Cut Hay 7000 #	140	89	70	21	
Bahia 3 Cut Hay 8000 #	210	102	80	24	
Bahia 4 Cut Hay 9000 #	280	114	115	27	
Bahia Grazing + 1 Hay	110	83	70	19	
Bahia Grazing 1 AU/1 ac	260	114	70	27	
Bahia Grazing 1 AU/2 ac	220	108	45	25	
Bahia Grazing 1 AU/3 ac	180	102	45	24	
Bahia Grazing 1 AU/4 ac	140	95	45	22	
Bahia Grazing 1 AU/5 ac	100	79	45	18	
Bahia Grazing 1 AU/6 ac	60	65	45	15	
Cantaloupes 15-20 tons	120	88	105	82	
Coastal 2 Cut + Graze	260	198	125	62	
Coastal 2 Cut Hay	200	169	125	39	
Coastal 3 Cut + Graze	360	257	125	80	
Coastal 3 Cut Hay	300	238	125	74	
Coastal 4 Cut Hay	400	257	170	80	
Coastal 5-6 Cut Hay	500	297	170	93	
Coastal Grazing + 1 Hay	160	145	70	34	
Coastal Grazing 1 AU/0.5 ac	300	218	70	68	
Coastal Grazing 1 AU/1 ac	240	198	70	62	
Coastal Grazing 1 AU/2 ac	200	169	70	39	
Coastal Grazing 1 AU/3 ac	160	145	70	34	
Coastal Grazing 1 AU/4 ac	120	120	70	28	
Coastal Grazing 1 AU/5 ac	90	103	70	24	
Coastal Grazing 1 AU/6 ac	60	86	70	20	
Coastal GC (30%DM) 21-23 Ton	400	345	170	95	
Coastal GC (30%DM) 18-20 Ton	350	300	170	82	
Coastal GC (30%DM) 15-17 Ton	300	255	125	70	
Coastal GC (30%DM) 9-11 Ton	200	170	125	47	
Common 2 Cut Hay 6000 #	140	113	80	26	
Common 3 Cut Hay 7400 #	210	141	80	46	
Common 4 Cut Hay 8000 #	280	152	80	49	
Common 5-6 Cut Hay 9000 #	350	171	80	56	
Common Grazing + 1 Hay	110	100	70	23	
Common Grazing + 2 Hay	180	132	80	30	
Common Grazing + 3 Hay	250	148	80	48	
Common Grazing 1 AU/1ac	260	152	70	49	
Common Grazing 1 AU/2 ac	220	143	45	46	
Common Grazing 1 AU/3 ac	180	132	45	30	
Common Grazing 1 AU/4 ac	140	113	45	26	
Common Grazing 1 AU/5 ac	100	94	45	22	
Common Grazing 1 AU/6 ac	60	79	45	18	

Connerd Viold Cool	Nitro	gen	P2O5		
Crop and Yield Goal	Requirement	Removal	Requirement	Removal	
Corn 111 - 130 bu	144	117	105	47	
Corn 131 - 150 bu	164	135	105	54	
Corn 151 - 170 bu	180	153	130	61	
Corn 171 - 190 bu	210	171	130	68	
Corn 191 - 210 bu	250	189	130	75	
Corn 211 - 230 bu	280	207	130	83	
Corn 231 - 250 bu	300	225	130	90	
Corn 250 - 275 bu	325	243	130	97	
Corn 276 - 300 bu	350	261	130	104	
Corn 301 - 350 bu	375	279	130	111	
Corn 50 - 70 bu	70	63	80	25	
Corn 71 - 90 bu	90	81	80	32	
Corn 91 - 110 bu	120	99	105	39	
Cotton 0.5 Bale	25	18	30	9	
Cotton 1.0 Bale	50	36	55	18	
Cotton 2.0 Bale	100	71	105	35	
Cotton 3 0 Bale	150	107	105	53	
Cotton 3.5 Bale	175	125	105	62	
Cotton 4 0 Bale	200	142	105	71	
Cotton 4.5 Bale	225	160	105	80	
Cotton 5.0 Bale	250	178	105	89	
Eastern gamagrass- 3000 #	80	57	40	21	
Eastern gamagrass- 6000 #	120	114	60	41	
Fescue, Tall Hay/Graze 7000#	150	140	80	42	
Grain Sorg. 1000 #	20	17	30	8	
Grain Sorg. 10000 #	200	167	130	82	
Grain Sorg. 1500 #	30	25	30	12	
Grain Sorg. 2000 #	40	33	30	16	
Grain Sorg. 3000 #	60	50	55	25	
Grain Sorg. 4000 #	80	67	55	33	
Grain Sorg. 5000 #	100	84	80	41	
Grain Sorg. 6000 #	120	100	80	49	
Grain Sorg. 7000 #	140	117	130	58	
Grain Sorg. 8000 #	160	134	130	66	
Grain Sorg. 9000 #	180	150	130	74	
Guar 3500 lbs	25	22	80	76	
Johnsongrass Hay 6000 #	140	101	80	32	
Klein 3 Cut Hay 7200 #	150	83	55	16	
Klein 4 Cut Hay 7800 #	150	90	55	18	
Klein Grazing + 1 Hay	80	69	55	14	
Klein Grazing 1 AU/1.5 ac	150	90	80	18	
Klein Grazing 1 AU/2.5 ac	80	69	55	14	
Klein Grazing 1 AU/6 ac	40	58	55	- 11	
Legume Overseeded	80	60	105	15	
Legume w/ryegrass	160	94	160	38	
Midland Bermuda 4000 #	120	75	80	17	
Midland Bermuda 6000 #	150	113	105	26	
Midland Bermuda 8000 #	200	150	105	35	



Alternative Crop List Attachment A Vanguard Organics, LLC

Correct World Cool	Nitro	gen	P2O5		
Crop and Yield Goal	Requirement	Removal	Requirement	Removal	
Native Grazing or Hay 4000#	80	44	70	34	
Native Grazing or Hay 3000#	40	33	55	25	
Native Grazing or Hay 1500#	20	17	27	13	
Native Grazing or Hay 750#	10	8	13	6	
Oat Light Grazing	120	107	55	40	
Oat Moderate Grazing	160	110	80	41	
Oats Hay 2-3 tons	120	100	55	37	
Oats Heavy Grazing plus Hay	200	117	80	43	
Old World Bluestem- 3000 #	40	33	55	25	
Old World Bluestem- 6000 #	80	66	55	51	
Peanut Hay Dryland 1 Ton	50	47	70	- 11	
Peanut Hay Dryland 2 Tons	100	93	70	22	
Peanut Hay Irrigated 3 Tons	150	140	95	33	
Peanuts Irrigated 4500 #	180	162	95	18	
Rice Early 7500 #	195	104	45	41	
Rice Late 7500 #	180	104	45	41	
Rice plus Ratoon Early 10000 #	295	139	60	55	
Rice plus Ratoon Late 10000 #	280	139	60	55	
Rve Forage 5000 #	140	84	55	31	
Rye Forage 7000 #	240	I17	80	43	
Ryegrass Hay 6000	140	100	55	37	
Ryegrass Heavy Grazing	200	117	80	43	
Ryegrass Moderate Grazing	140	84	55	31	
SG Green Chop(25% DM) 8 to 9 tons	260	203	90	73	
SG Green Chop(25% DM) 6 to 7 tons	200	158	80	57	
SG Green Chop(25% DM) 4 to 5 tons	135	113	60	41	
SG Green Chop(25% DM) 2 to 3 tons	75	68	40	24	
SG Silage(35% DM) 12 to 14 tons	160	128	90	67	
SG Silage(35% DM) 10 to 11 tons	120	101	70	53	
SG Silage(35% DM) 8 to 9 tons	95	83	40	43	
SG Silage(35% DM) 5 to 7 tons	70	64	30	34	
Silage - Corn(35% DM) 11 - 15 Ton	140	119	80	58	
Silage - Corn(35% DM) 16 - 20 Ton	240	183	100	77	
Silage - Corn(35% DM) 16 - 20 Ton	350	263	105	96	
Silage - Corn(35% DM) 26 - 30 Ton	420	315	135	115	
Silage - Corn(35% DM) 7 - 10 Ton	85	79	60	38	
Silage - Sorg(35% DM) 11 - 15 Ton	200	179	75	55	
Silage - Sorg(35% DM) 11 - 13 Ton	280	238	95	74	
Silage - Sorg(35% DM) 21 - 25 Ton	360	298		92	
Silage - Sorg(35% DM) 26 - 30 Ton	380		115		
		315	130	111	
Silage - Sorg(35% DM) 31 - 40 Ton	450	364	155	135	
Silage - Sorg(35% DM) 41 - 50 Ton	580 700	455	190 220	168	
Silage - Sorg(35% DM) 51 - 60 Ton		550		202	
Silage - Sorg(35% DM) 7 - 10 Ton	125	119	60	37	
Small Grain Heavy Grazing		112	105	41	
Small Grain Light Grazing	60	75	80	28	
Small Grain Moderate Grazing	160	97	105	36	
Sorg Sudan Hay/Graze 11000 #	240	219	105	83	

nent Removal
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Application Methods & Timing

Land Application Methods

The application methods at this facility include center pivot and reel gun irrigation systems. Treated effluent is distributed to the irrigation systems via existing and proposed pumping plants and underground irrigation piping. The irrigation systems are designed to ensure uniform distribution of effluent without the creation of tailwater or runoff.

Irrigation Water Management

Irrigation water management is the process of determining and controlling the volume, frequency, and application rate of irrigation water in a planned, efficient manner. Day-to-day management decisions will be based on the water and nutrient needs of the crops, harvest schedules, and soil moisture.

Soil Moisture Monitoring

The most important aspect of irrigation water management is properly evaluating and monitoring the available soil moisture. Soil moisture in the land application fields is monitored by the feel and appearance method, using USDA guidance.

Irrigation Scheduling

The amount of effluent applied in each irrigation event will be based on soil moisture, crop nutrient requirements, and weather conditions at the time of application.

The irrigation systems should be operated in accordance with the TLAP and with the following Best Management Practices (BMPs):

- Effluent irrigation will not occur when the ground is frozen or saturated within 3 feet of the surface or during rainfall events unless necessary to prevent imminent overflow of the storage pond.
- Effluent irrigation will not exceed maximum crop nutrient requirements.
- Effluent irrigation will not occur to fallow lands, with the exception of pre-watering, as described in the previous section. Application to dormant perennial or winter crops shall be limited to the planned rate shown in the NMP.
- Irrigation practices will minimize the ponding and puddling of effluent and prevent tailwater and the occurrence of nuisance conditions.
- Records of the amount of effluent applied, the crops grown, the planting and harvest dates, and crop yields are maintained for each field.
- Personnel whose job responsibilities require the handling, storage, or land application of effluent should be trained to ensure proper procedures are followed and appropriate records are kept.

Monitoring

Monitoring of irrigation operations should occur before, during, and after effluent application to ensure proper operation and avoid over-application of nutrients. No puddling or runoff should occur. A visual inspection should be performed during operation to determine if any puddling or irrigation-induced erosion occurs. Corrective actions include, but are not limited to:

- Cease irrigation.
- Increase the speed of the reel gun sprinkler to reduce the application rate.
- Reduce the "on" time interval and increase the "off" time interval for surface irrigated fields.

Monitoring of soil moisture, rainfall, and crop ET should occur at least every week during the growing season.

As part of the monitoring, the annual soil tests will be reviewed. The following best management practices may be utilized to monitor leaching of nitrate-nitrogen:

- Apply effluent during optimal growing and in response to plant needs.
- Use of conventional N fertilizers applied close to peak crop N uptake.
- Split commercial fertilizer applications and use a conservative approach to preplant N rate.
- Retain crop residue.
- Regularly adjust irrigation schedules to reflect changes in weather and plant needs or monitor soil moisture values.
- Incorporate organic amendments to improve water-holding capacity and prevent excessive leaching.
- Double cropping with a cover crop or forage crop.
- Use of N inhibitors for reduced leaching from April to June.

Soil samples will be collected from each field in accordance with the TLAP. Sampling will be conducted within the timeframe specified in the TLAP. Effluent samples will be collected as specified in the TLAP to verify nutrient application via irrigation.

System Maintenance

The irrigation systems are operated and maintained in accordance with the manufacturer's recommendations. The system's life can be assured and usually increased by carrying out a good operation and maintenance program. The irrigation system is inspected periodically to ensure proper operation of the pumps, pipelines, and sprinklers.

All measuring devices, valves, nozzle heads, surface pipelines, and other mechanical parts of the system are checked periodically, and worn or damaged parts are repaired or replaced as needed. Worn or improper functioning nozzles are replaced with the same design, size, and type. Nozzle heads operate efficiently and provide uniform application when they are plumb, in good operating condition, and operated at the planned pressure.

Maintain all pumps, piping, valves, and electrical and mechanical equipment in accordance with manufacturer recommendations. Check and clean screens and filters to prevent unnecessary hydraulic friction loss and maintain water flow necessary for efficient pump operation. Protect the pumping plant and all associated electrical and mechanical controls from damage by rodents, insects, heat, water, flooding, lightning, sudden power failure, and sudden water source loss. Ensure that all electrical fittings are

secure and safe. Always replace worn or excessively weathered electric cables, wires, gas tubing, and fittings when first noticed. Check periodically for undesirable stray currents and leaks. Display appropriate bilingual operating instructions and warning signs as necessary. During non-seasonal use, drain pipelines and valves, and secure and protect all movable equipment.

Pollution hazards to ground and surface water can be minimized when good irrigation water management practices are followed. Losses of irrigation water to deep percolation and runoff should be minimized. Deep percolation and runoff from irrigation can carry nutrients and pesticides into ground and surface water. Avoiding spills from agricultural chemicals, fuels, and lubricants will also minimize potential pollution hazards to ground and surface water.

8.0 REFERENCES

Information used to develop this plan was obtained, in part, from the following sources:

- Maas and Grattan. 1999. Agricultural drainage water management in arid and semi-arid areas. FAO Irrigation and Drainage Paper 61, Annex 1. Crop salt tolerance data. Retrieved December 2022. http://www.fao.org/docrep/005/y4263e/y4263e0e.htm
- Texas A&M AgriLife Extension. Retrieved 2023. Using Animal Manure and Wastewater for Crops and Pastures. https://agrilifeextension.tamu.edu/library/farming/
- Texas Almanac. Retrieved May 2023. Texas Temperature, Freeze, Growing Season and Precipitation Records by County.

 https://texasalmanac.com/sites/default/files/images/almanac-feature/countyweatherA.pdf
- USDA NRCS Web Soil Survey, Erath County, accessed September 2024.
- USDA NRCS (2012/2013 TLAP Permit List). Texas Waste Utilization and Nutrient Management 590-633 Plan. Version 5, S Tables.

CLIENT: ENVIR

6224

ENVIRO-AG ENGINEERING INC 3404 AIRWAY BLVD AMARILLO, TX 79118



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329 LAB NO:

55081 - 55090

INVOICE NO:

172720

DATE RECEIVED:

8/16/2024

DATE REPORTED:

08/20/2024

SOIL A	ANALYSIS RE	SULTS	FOR:	VAN	DEN BE	RGE FA	RMS				F	IELD ID	ENTIFIC	ATION:	RICHAR	D GEO	RGE				
METH	OD USED:		1:2 Soil-Water		1 2 Soil-Water	XSL(i)	LOI(r)	Cd Re	duction				Mehlich 3 ICP								
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol Salts mmho/cm	Excess Lime	% Organic Matter	Nitra te-	Nitrogen lb_N/A	Phosphorus ppm P	Potassium ppm K	ppm	ulfur lb_S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
55081	WDA 1	0-6	8,2		0.21	Hi	3.0	12.6	23	195	654	20	36	6210	387	63					
55082	WDA 1	6 - 18	8.4		0.25	Hi	1.4	5.9	21	26	492	21	76	9880	374	103					
55083	WDA 1	18 - 30	8.4		0.30	Hi	1.6	5.1	18	16	238	29	104	10900	318	196					
55084	WDA 2	0-6	8.0		0.17	Lo	2.1	6.0	11	225	515	20	36	5150	230	48					
55085	WDA 2	6 - 18	8.2		0.16	Lo	1.0	2.5	9	137	479	12	43	4870	338	33					
55086	WDA 2	18 - 30	8.1		0.18	No	0.9	5.3	19	31	432	22	79	3080	378	60					
55087	WDA 3	0-6	8.0		0.16	Hi	1.9	2.4	4	81	281	9	16	6210	331	30					
55088	WDA 3	6 - 18	8.2		0.20	Hi	1.2	<1.0	<4	16	231	10	36	7630	372	60					
55089	WDA 3	18 - 30	8.4		0.18	Hi	0.9	1.5	5	9	211	25	90	6620	484	209					
55090	WDA 4	0-6	7.8		0.18	Lo	1.5	7.4	13	10	229	14	25	4770	228	86					

METHO	D USED:		KC	CI Extr	Calculated	TKN							Sa	at. Paste				
Lab Number	Sample ID	Sample Depth	Ammoni ppm	um Nitrogen lb./A	Total N ppm	TKN ppm	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Ratio						
55081	WDA 1	0-6	4	7	1862	1849	51	0.88	106	18	40	0.9						
55082	WDA 1	6 - 18	3	11	886	880	47	0.95	101	15	64	1.6						
55083	WDA 1	18 - 30	3	11	745	740	49	0.89	91	9	95	2.5						
55084	WDA 2	0-6	4	7	1594	1588	47	0.73	100	10	37	0.9						
55085	WDA 2	6 - 18	3	11	761	758	46	0.47	69	10	15	0.4						
55086	WDA 2	18 - 30	3	11	652	647	45	0,69	82	16	37	1.0						
55087	WDA 3	0-6	5	9	1355	1353	50	0.47	89	9	11	0.3						
55088	WDA 3	6 - 18	3	11	763	762	52	0.40	61	7	22	0.7						
55089	WDA 3	18 - 30	4	14	566	564	54	0,55	39	6	77	3.0						
55090	WDA 4	0-6	5	9	1003	996	41	1.10	155	14	64	1.3						

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Ashleigh Laugesen Signer

Lether Language

Page 1 of 2 09/27/2024 11:15 am

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3404 AIRWAY BLVD AMARILLO, TX 79118

6224



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329 LAB NO:

55081 - 55090

INVOICE NO:

172720

DATE RECEIVED:

8/16/2024

DATE REPORTED:

08/20/2024

SOIL A	NALYSIS RESUI	LTS FOR: VAN	DEN BERGE	FARMS	3			FIE	ELD ID	ENTIF	ICATIO	ON: RI	CHARI	D GEO	RGE						
FERTIL	IZER RECOMME	ENDATIONS:						POUN	DS AC	TUAL	NUTR	IENT	PER A	CRE			Ca	tion E	Excha	nge C	apacity
Lab Number	Sample ID	Crop To Be Grown	Yeld Gbal	Lime E	CC Tons/A to ra	aise pH to	 P205	K20	Zn	s	Mn			12			1			Ū	. ,
Humber		De Glown	G5el	6.0	6.5	7.0	P205	1 120	Zn Zn	8	IVII	Cu	MgO	8	Ca	CI	CEC	%Н	%K	%Ca	%Mg %Na
55081	WDA 1																30	0	6	83	11 1
55082	WDA 1																30	0	4	84	10 2
55083	WDA 1																29	0	2	86	9 3
55084	WDA 2																28	0	5	88	7 .
55085	WDA 2																29	0	4	85	10 1
55086	WDA 2																20	0	6	77	16 1
55087	WDA 3																29	0	3	87	10 0
55088	WDA 3																29	0	2	86	11 1
55089	WDA 3																30	0	2	82	13 3
55090	WDA 4																27	0	2	89	7 1

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 55081, 55082, 55083, 55087, 55088, 55089

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 55081, 55084, 55087, 55090

Servi-Tech Laboratory fertilizer recommendations were not requested.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By:

Ashleigh Laugesen

Signer

John Langeren

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3404 AIRWAY BLVD AMARILLO, TX 79118

Servi-Tech Laboratories 6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329 LAB NO:

55091 - 55095

INVOICE NO:

172720

DATE RECEIVED:

8/16/2024

DATE REPORTED:

08/20/2024

SOIL A	NALYSIS RE	ESULTS	FOR:	VAN	DEN BE	RGE FA	RMS				F	IELD ID	ENTIFIC	ATION:	RICHAR	D GEO	RGE				
METHO	D USED:		1.2 Soil-Water		1_2 Soil-Water	XSL(i)	LOI(r)	Cd Re	duction				Mehlich 3 ICP	•							
Lab Number	Sample ID	Sample Depth	Sail pH	Buffer pH	Sof Salts mmho/cm	Excess Lime	% Organic Matter	Nitra te- ppm	Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	St ppm	ulfur Ib S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
55091	WDA 4	6 - 18	7,9		0.19	Lo	0.9	9.8	35	3	236	11	40	6610	368	85					
55092	WDA 4	18 - 30	8.3		0.17	Lo	0.8	10.5	38	3	193	9	32	5600	467	219					
55093	WDA 5	0-6	7,2		0.10	No	1,7	<1_0	<2	70	241	10	18	2020	148	59					
55094	WDA 5	6 - 18	7.9		0.15	No	0.9	<1.0	<4	13	356	7	25	3860	349	74					
55095	WDA 5	18 - 30	8,1		0.21	Lo	0.8	<1.0	<4	5	225	14	50	6850	509	150					

METHO	D USED:		KC	Extr	Calculated	TKN							Sat Paste
Lab Number	Sample ID	Sample Depth	Ammoniu ppm	im Nitrogen lb:/A	Total N ppm	TKN ppm	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Ratio	
55091	WDA 4	6 - 18	5	18	500	490	47	0.71	97	11	41	1.1	
55092	WDA 4	18 - 30	6	22	415	404	47	0.71	54	9	91	3.0	
55093	WDA 5	0 - 6	5	9	1261	1260	43	0.71	100	12	48	1.2	
55094	WDA 5	6 - 18	3	11	493	492	45	0.56	65	10	39	1,2	
55095	WDA 5	18 - 30	5	18	517	516	44	0.67	59	13	73	2.2	

FERTILI	ZER RECOMME	ENDATIONS:							POUN	DS AC	TUAL	NUTR	IENT	PER A	CRE			Ca	ation I	Exchar	ge Ca	apacit	tv
Lab Number	Sample	Стор То	Yield	Lime, E	CC Tons/A to ra	nise pH to:											(49.7)	1			•	•	•
Number	ID.	Be Grown	Goal	6.0	6,5	7.0	N	P2O5	K20	Zn	S	Mn	Cu	MgO	В	Ca	CI	CEC	%Н	%K	%Ca	%Mg	%Na
55091	WDA 4																	29	0	2	86	11	1
55092	WDA 4																	30	0	2	82	13	3
55093	WDA 5																	12	0	5	83	10	2
55094	WDA 5																	23	0	4	82	12	1
55095	WDA 5																	30	0	2	82	14	

SPECIAL COMMENTS AND SUGGESTIONS:

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Ashleigh Laugesen

Signer

Lucine Luginer

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3404 AIRWAY BLVD AMARILLO, TX 79118



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329 LAB NO:

55091 - 55095

INVOICE NO:

172720

DATE RECEIVED:

8/16/2024

DATE REPORTED:

08/20/2024

SOIL ANALYSIS RESULTS FOR:

VANDEN BERGE FARMS

FIELD IDENTIFICATION: RICHARD GEORGE

Lab Number(s): 55093

6224

Servi-Tech Laboratory fertilizer recommendations were not requested.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Ashleigh Laugesen Signer

Liken Kungesen

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T.E: WATER WELL INFORMATION

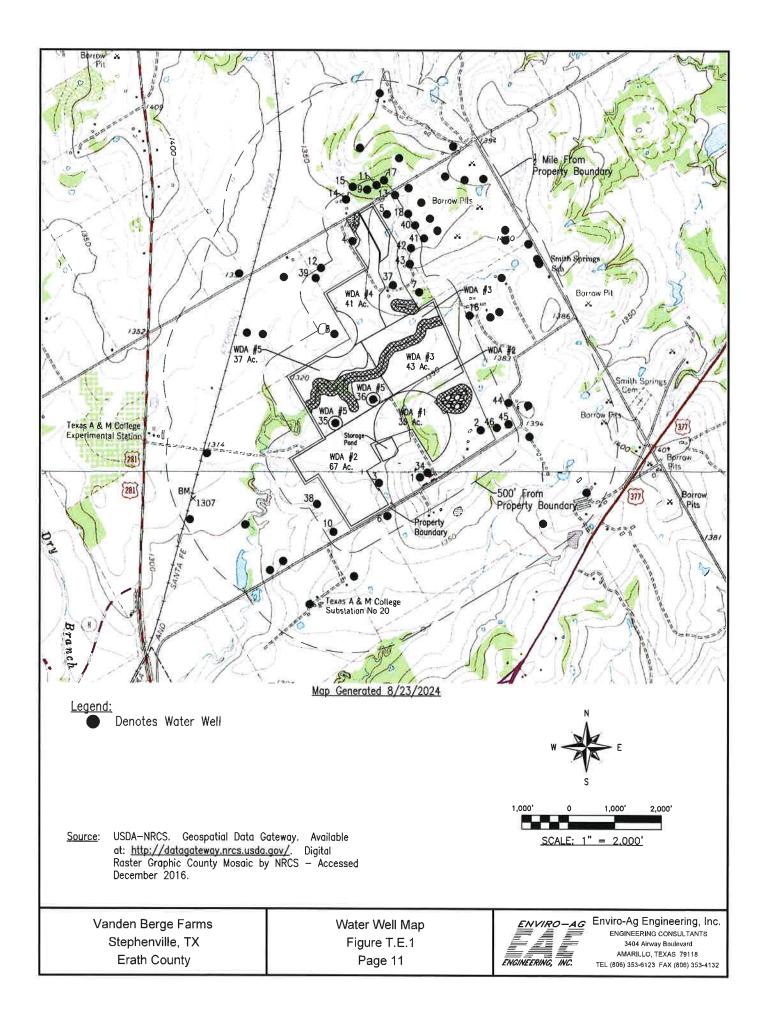
T.E.1 Water Well Map

Figure T.E.1, Water Well Map, shows the locations of water wells within ½ mile of the property boundary.

T.E.2 Water Well Information

Water well data was obtained from a variety of sources, including on-site inspections, Research, a database research firm in Toronto, ON-Canada, and the Texas Water Development Board (TWDB) Water Data Interactive (WDI) online database. The information provided by Environmental Risk Information Services (ERIS) was obtained from a variety of public sources. ERIS does not ensure and makes no warranty or representation as to the accuracy, reliability, quality, or errors occurring from data conversion or the interpretation of their report. The TWDB WDI database includes data from the TWDB Groundwater Database and Submitted Driller's Reports.

10





Project Property: Schreiber Foods, Inc.

Schreiber Foods, Inc. Stephenville TX 76401

Project No:

Order No: 24081500488

Requested by: Enviro-Ag Engineering, Inc.

Date Completed: August 19, 2024

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Executive Summary

Property Information:

Project Property:

Schreiber Foods, Inc.

Schreiber Foods, Inc. Stephenville TX 76401

Order No: 24081500488

Project No:

Coordinates:

Latitude:

32.2527179 -98.18102533

Longitude: UTM Northing: UTM Easting:

3,569,015.69

UTM Easting UTM Zone:

577,439.76 14S

Target Property Geometry:

POLYGON

County/Parish Covered:

Erath (TX)

Zipcode(s) Covered:

Stephenville TX: 76401

State(s) Covered:

TX

Executive Summary: Report Summary

Database	Searched	Project Property	Within 0.50mi	Total
Federal				
FED USGS	Υ	0	<u> </u>	0
State				
TCEQ WELL LOGS	Υ	3	18	21
SDRW WELLS	Υ	0	17	17
GWDB	Y	0	4	4
WW FORT BEND	Y	0	0	0
WW HIGH PLAINS	Y	0	0	0
WW HARRIS GAL	Υ	0	0	0
WUD	Υ	0	3	3
	Total:	3	42	45

^{*} PO - Property Only

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
1	TCEQ WELL LOGS	ROBERT CAUDLE	TX	SSE	0.00 / 0.00	15
			Grid No Owners Name: 31-55-2	ROBERT CAU	IDLE	
2	TCEQ WELL LOGS	VELON REESE	TX	ESE	0.00 / 0.00	18
			Grid No Owners Name: 31-55-2	Y VELON REE	SE	
3	TCEQ WELL LOGS	RONNIE QUARLES	TX	S	0.00 / 0.00	21
			Grid No Owners Name: 31-55-2	RONNIE QUA	RLES	

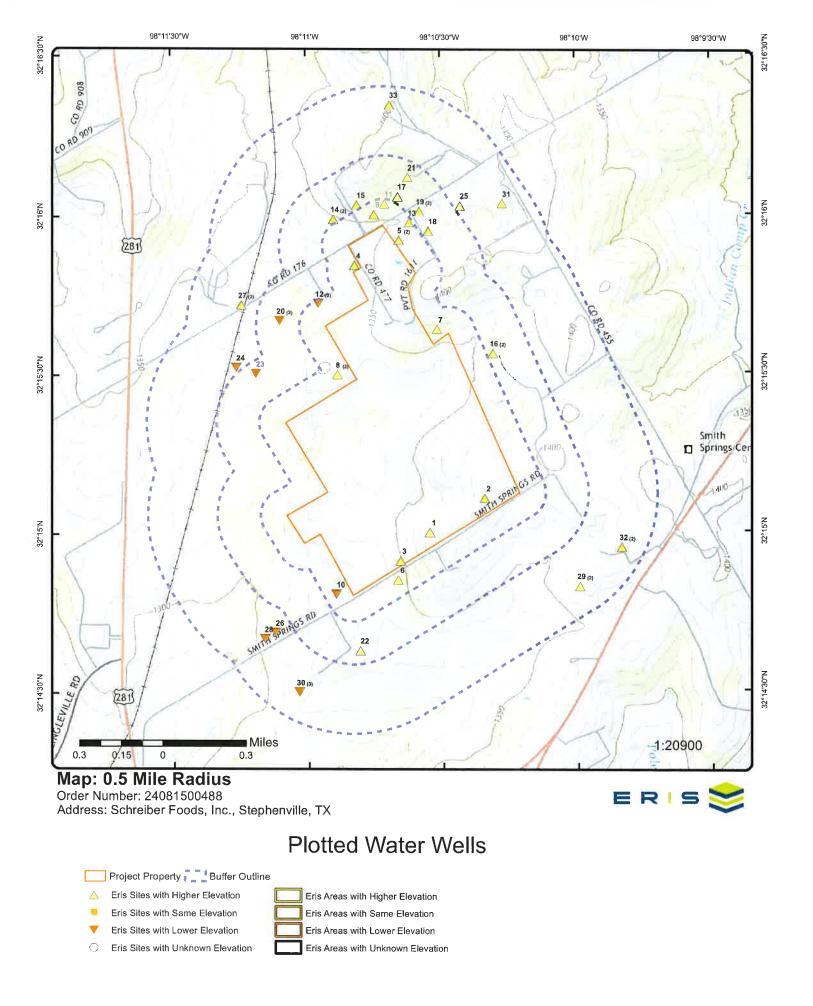
Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
4_	TCEQ WELL LOGS	KELLY CASSTEVENS	TX	NNW	0.02 / 80.81	23
			Grid No Owners Name: 31-47	'-8 KELLY CASSTE	EVENS	
<u>5</u>	SDRW WELLS	Cory Pipal	690 CR 477 Stephenville TX 76401	N	0.02 / 94.37	<u>25</u>
			Track NO: 660142			
5	SDRW WELLS	Cory Pipal	2220 CR 176 Stephenville TX 76401	N	0.02 / 94.37	<u>26</u>
			Track NO: 659976			
<u>6</u>	TCEQ WELL LOGS	DONNEL GAINES	TX	S	0.04 / 192.45	27
			Grid No Owners Name: 31-55	-2 DONNEL GAIN	ES	
_	TCEQ	DEDT WOLCUT				
7_	WELL LOGS	BERT WRIGHT	TX	NNE	0.04 / 194.64	<u>30</u>
			Grid No Owners Name: 31-47	'-8 BERT WRIGHT		
	M/LID					
8	WUD	SCHREIBER FOODS	TX	NW	0.05 / 269.79	33
			Utility Name WTRSRC: SCHR	REIBER FOODS INC	G G0720026B	
	CDDW/	0.1. 11				
8	SDRW WELLS	Schreiber Foods	923 CR 176 Well #2 Stephenville TX 76401	NW	0.05 / 269.79	<u>34</u>
			Track NO: 646869			
0	SDRW	Nick Braun	TBD CR 176	N.I.	0.05 /	2.5
9	WELLS	NICK DIQUIT	Stephenville TX 76401	N	0.05 / 277.73	<u>35</u>
			Track NO: 543960			
10	TCEQ	DONNEL GAINES		SSW	0.05 /	36
	WELL LOGS	DOTATE OF MINES	TX	0000	278.35	<u>36</u>
			Grid No Owners Name: 31-55	-2 DONNEL GAINI	ES	
11	SDRW	Nick Braun	TBD CR 176	N	0.08 /	<u>39</u>
, 	WELLS		Stephenville TX 76401		415.88	
			Track NO: 560730			
12	TCEQ WELL LOGS	MONTY NEEB		NW	0.08 /	40
	WELL LOGS		TX		445.55	
			Grid No Owners Name: 31-47-	-8 MONTY NEEB		
12	SDRW WELLS	Gordon Carroll	1602 CR 176	NW	0.08 /	43
	VVLLLG		Stephenville TX 76401 Track NO: 635195		445.55	
			7.80h 110. 000180			
13	TCEQ WELL LOGS	TOBY STONE	TV	N	0.09 /	44
			TX		449.98	

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
			Grid No Owners Name: 31-47-8M	TOBY STONE		
14	TCEQ WELL LOGS	DON COAN	TX Grid No Owners Name: 31-47-8	NNW DON COAN	0.11 / 588.80	47
14	TCEQ WELL LOGS	A T GORDON	TX Grid No Owners Name: 31-47-8M	NNW	0.11 / 588.80	<u>50</u>
15	SDRW WELLS	Nick Braun	TBD CR 176 Stephenville TX 76401 Track NO: 543961	N	0.11 / 599.80	<u>52</u>
16	SDRW WELLS	Kenneth Gifford	4171 CR 177 stephenville TX 76401 <i>Track NO:</i> 329374	NE	0.12 / 615.92	<u>53</u>
16	TCEQ WELL LOGS	BERT WRIGHT	TX Grid No Owners Name: 31-47-8	NE BERT WRIGHT	0.12 / 615.92	54
17	SDRW WELLS	Nick Braun	TBD CR 176 Stephenville TX 76401 Track NO: 560729	N	0.12 / 627.49	<u>57</u>
18	SDRW WELLS	James Sommer	325 CR 477 Stephenville TX 76401 <i>Track NO:</i> 203770	N	0.12 / 656.82	<u>58</u>
19	SDRW WELLS	Elizabeth Tatsch	2488 CR 176 Stephenville TX 76401 <i>Track NO:</i> 335178	N	0.14 / 725.99	<u>59</u>
19	TCEQ WELL LOGS	ED TATSCH	TX Grid No Owners Name: 31-47-8	N ED TATSCH	0.14 / 725.99	<u>60</u>
20	TCEQ WELL LOGS	LOUIS BOLLINGEL	TX Grid No Owners Name: 31-47-8	NW LOUIS BOLLING	0.17 / 880.64 GEL	<u>62</u>
<u>20</u>	SDRW WELLS	CDS STXDC 2021 LLC	923 County Road 176 Stephenville TX 76401 Track NO: 605326	NW	0.17 / 880.64	<u>65</u>
<u>21</u>	SDRW WELLS	RANDY TATSCH	3055 CR 176 STEPHENVILLE TX 76401 Track NO: 562001	N	0.20 / 1,034.32	<u>66</u>
22	SDRW WELLS	Texas Agrilife Research	Off of Smith's Springs Road Stephenville TX <i>Track NO:</i> 336732	SSW	0.20 / 1,062.96	<u>67</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
23	SDRW WELLS	CDS STXDC 2021, LLC	1356 CR 176 Stephenville TX 76401 <i>Track NO:</i> 598115	WNW	0.21 / 1,100.01	<u>68</u>
<u>24</u>	SDRW WELLS	CDS STXDC 2021, LLC	1356 CR 176 Stephenville TX 76401 <i>Track NO:</i> 598116	WNW	0.27 / 1,413.71	<u>69</u>
<u>25</u>	TCEQ WELL LOGS	GORDON TAYLOR	TX Grid No Owners Name: 31-47-8	NNE GORDON TAYL	0.27 / 1,430.68 OR	<u>70</u>
<u>26</u>	TCEQ WELL LOGS	DAVID HALFORD	TX Grid No Owners Name: 31-55-2	SW DAVID HALFOR	0.31 / 1,646.44 RD	<u>73</u>
27	GWDB	AMPI Cheese Plant	TX State Well No Owner Name: 3147	NW 7802 AMPI Che	0.31 / 1,659.38 ese <i>Plant</i>	<u>75</u>
<u>27</u>	WUD	SCHREIBER FOODS	TX Utility Name WTRSRC: SCHREIE	NW BER FOODS INC	0.31 / 1,659.38 <i>G0720026A</i>	83
28	WUD	WHITE HORSE CHRISTIAN ACADEMY	TX Utility Name WTRSRC: WHITE H	SW	0.36 / 1,883.88	84
<u>29</u>	TCEQ WELL LOGS	TROY GORDON #1	TX Grid No Owners Name: 31-55-2U	SE	0.40 / 2,115.18	<u>85</u>
29	TCEQ WELL LOGS	TROY GORDON	TX Grid No Owners Name: 31-55-2U	SE	0.40 / 2,115.18	<u>87</u>
<u>30</u>	GWDB	Texas A&M University Tarleton Experiment	TX	SSW	0.40 / 2,115.30	<u>89</u>
30	GWDB	Tarleton College Exp. Station	State Well No Owner Name: 3158	ssw	0.40 / 2,115.30	98
30	TCEQ WELL LOGS	TILL STONE	TX Grid No Owners Name: 31-55-2	SSW	ollege Exp. Station 0.40 / 2,115.30	101
<u>31</u>	SDRW WELLS	James Young	2703 CR 455 Stephenville TX 76401 <i>Track NO: 425567</i>	NNE	0.40 / 2,117.54	103
32	GWDB	Poston Farms	TX	ESE	0.42 <i>l</i> 2,211.76	104

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
			State Well No Owner Na	ame: 3155304 Poston Fa	rms	
32	TCEQ WELL LOGS	TOBY STONE	TX	ESE	0.42 / 2,211.76	108
			Grid No Owners Name:	31-55-2U TOBY STONE		
33	TCEQ WELL LOGS	F. E. SUTTON	TX	N	0.43 / 2,293.38	110
			Grid No Owners Name:	31-47-8 F. E. SUTTON		



Aerial Year: 2022

0.075

Address: Schreiber Foods, Inc., Stephenville, TX

Source: ESRI World Imagery

Order Number: 24081500488

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



1:11887

Item 14. Laboratory Accreditation (Instructions, Page 49)

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:
 - o periodically inspected by the TCEQ; or
 - o located in another state and is accredited or inspected by that state; or
 - o performing work for another company with a unit located in the same site; or
 - o 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: Click to enter text.

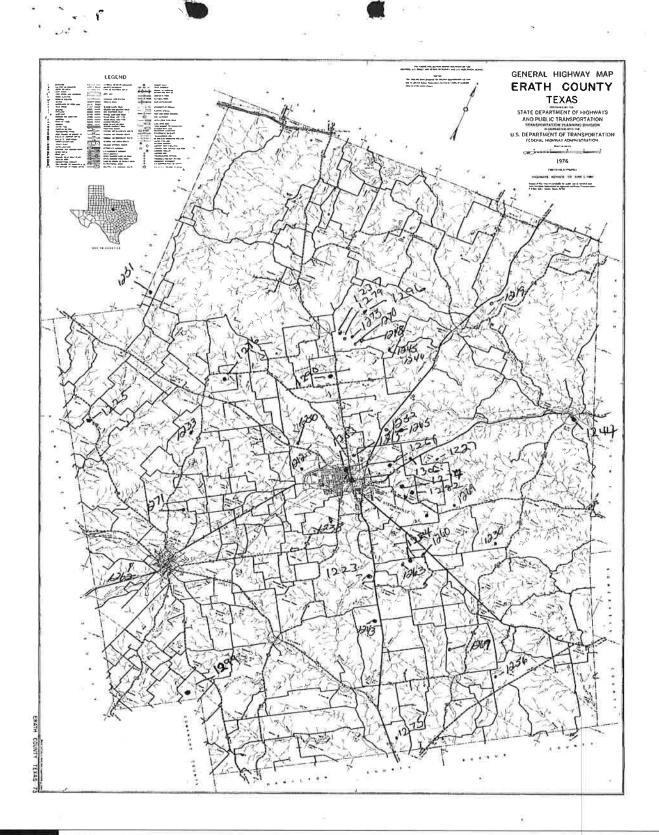
Title: Click to enter text,

Signature: Greb Vande 14/ Date: _____ 11-8-24

Detail Report

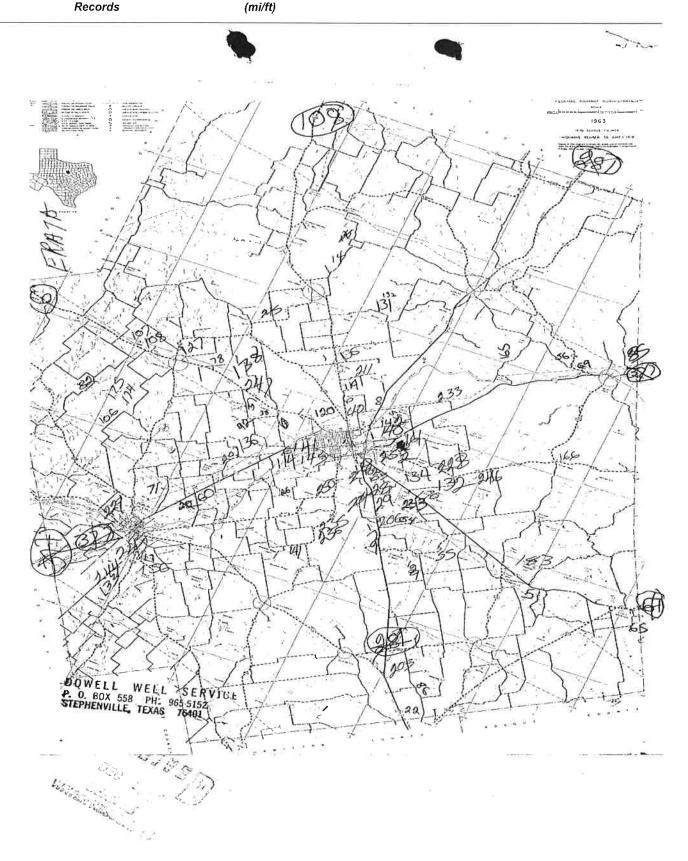
Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB	}
1	1 of 1	SSE	0.00 /	ROBERT CAUDLE	TCEQ	
			0.00	TX	WELL LOG	38
Grid No:		31-55-2				
Date Drilled	!:	09/09/1987				
Owners Na	ne:	ROBERT CAL	DLE			
County:		ERATH				
Water Usag	e:	DOMESTIC				
Static Level	l :	260			8	
Depth Drille	ed:	340				
Latitude:		32.249996				
Longtiude:		-98.1757746				

					7	81	
Please use black ink. Send original copy by certified mail to the Texas Water Commission P.O. Box 15087 Austin, Toxes 78711		State of 1 ER WELL	REP		n Reverse Side	Texas Water Well Driller P. O. Box 13087 Austin, Texas 76711	s Board
1) OWNER Robert 2) LOCATION OF WELL: COUNTY FRATA	Caudle A	des in (N	Lant or	Pay RFDI D	Beld) Ha	rland If	341
Driller must complete the legal descri- with distance and direction from two flon or survey lines, or he must locat well on an official Quarter or Helf-Si General Highway Map and attach the	ption to the right intersecting sec- a and identify the / 26 / map to this form.	agal doscription Section No Abstract No. Distance and	direction	n from tw	Survey Nameo intersecting section or	survey lines	
3) TYPE OF WORK (Check): New Well Deopening Reconditioning DPlugging	4) PROPOSED USE (Check): Theomestic			ly	1 5 1	OD (Check): Air Hammer	Oriven Bored
6) WELL LOG: Date Drilling: Started Completed 198	DIAMETER OF HOLE Dia. (in.) From (ft.) T Surface	o (ft.)	☐ Oper	n Hole ol Packed	MPLETION: Straight Wall Other ad give interval from		,
From To (ft.)	Description and color of formation	on 8)	CASIN	G, BLAN	K PIPE, AND WELL SCI	REEN DATA:	
0-15-	Topsoil ellow Clay Red Clay	Die (in.		Perf.	, Plastic, etc. , Slotted, etc. en Mgf., II commercial	Setting (ft.) From To 0 340	Gage Casing Screen
90-110	Blue CIAU						
140-180	Shale /						
210-240 240-280 280-300 300-340	SAND SAND CING SAND LOM	> <u>√</u> 9)		ted from		_ft. No. of Secks Used _ _ft. No. of Secks Used _	,Inc
		10	Spe	cified Sur	MPLETION face Slab Installed (Rule or Used (Rule 319.44(d) ernative Procedure Used	1	
	(D) E @ E (V)	E (1)	Sta	asian (low	2 60 fl. below len	d surface Date 9/1	9/87
	SEP 00 180	0				- 4451431	
[List rawerse	TEXAS WATER COMM	1231011	TUPE Turb	ino	□ Jet Subme		
(Use reverse side if necessary) WATER QUALITY: Oid you knowingly penetrate ony strate which contained undesirable water? I Yes No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? Oepth of strate Was a chemical analysis made? I Yes				TESTS:	□ Pump □ Bailer gpm with	ft. drawdown after	
I here by certify that this we knowledge and ballof. I und COMPANY NAME DO WELL CTYPE (ell was drilled by me (or under my deratand that failure to complete it Well Service or Print)	INC.	will resu	each and a	og(s) being returned for a	In are true to the best of m	Y.
(Signed)	558 S	teph (Signed)	e N	11/1	e /eX	9.5 764	0/_
(Licensed Please attach electric log, chemical an	Water Wall Critics) olysis, and other partinent informa			(Ragistère	d Oritter Trainee)	For TWC using only S 5 - Well No. 3 7 5 5 - Located on map	2
1464/D 012/E 01 20 831							



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
2	1 of 1	ESE	0.00 / 0.00	VELON REESE	TCEQ
			0.00	TX	WELL LOGS
Grid No:		31-55-2Y			
Date Drille	d:	09/22/1979			
Owners Na	nme:	VELON REES	E		
County:		ERATH			
Water Usa	ge:	DOMESTIC			
Static Leve	el:	60			
Depth Drill	ed:	120			
Latitude:		32.2517676			
Longtiude:	•	-98.1723629			

→ **	00		50	0
Send original copy by	State	of Texas	2-2	For TOWR use only
certified mail to the Texas Department of Water Resources P. O. Box 13087	WATER W ATTENTION OWNER: Confident			For TDWR use only Well No. 3/ 55 28 Located on map 965
Austin, Toxas 78711	0	D o	nge Nome on neverse side	Received: C.F.S.
141	Teese Address	(Street or	330 Steph	City) (Side) (Zip)
County ERATH	miles in _	(N.E., S.W	direction from	(Town)
	☐ Lagal de	scription:		
Driller must complete the legal descrip with distance and direction from two i			Block No	
tion or survey lines, or he must locate a well on an official Quarter- or Half-Sca General Highway Map and attach the n	de Toxas County		Survey Name on from two intersecting section	
ia l				
31 TYPE OF WORK (Check):	4) PROPOSED USE (Check):	cned map.	5) DRILLING METHOD 10	
New Well Despening	□ Domestic □ Industrial □ Public	Supply	and the second s	mmer [] Oriven [] Borad
C Reconditioning Plugging	☐ Irrigation ☐ Test Wall ☐ Other _		The state of the s	Fool
B) WELL LOG:	DIAMETER OF HOLE Dis. (in.) From (ft.) To (ft.)		HOLE COMPLETION:	Wall Underreamed
Date drilled 9-2 2-79	674 0 120	It Gri	vel Packed [] Other	
Date drifted	617 0 120	II G	irovel Packed give interval	trom <u>80 ft. to 120</u> ft
Fram To (ft.) (ft.)	Description and color of formation material	8) CASI	NG, BLANK PIPE, AND WEL	L SCREEN DATA:
10-5- 7	os Soil	Dia New	Steel, Plastic, etc.	Seiting (ft.) Gage
5-20 (alache.	fin.) Used	Perf., Slotteri, etc. Screen Mgf., if commen	cial From To Scree
20-60	Blue Clay	410 V	pre, pars	50A
00 - 13 A	2 deg Close		110	
13 180	very		ļ	
			CEMEN.	TING DATA
		Cornen	ted from	ft. to80ft
	111-1		dused poured	1.112.1. 4 21
		Cemen		mpany or Individual)
	74		ER LEVEL:	
		Steti	s level ft. below in	ind surface Date 9-22-79
		Artes	sian flowgpm	Date
		10) PAC	KERS: Type	Depth
*				
		-		
		11) TYP	E PUMP:	
		□ Tur	bine □Jet 🖽Ś	ubmersible 🗀 Cylinder
(Ulea suunga s	ide if necessary)	□ D Oth		<u> </u>
13) WATER QUALITY:	ide ii necessary)	Depth	to pump bowls, cylinder, jet,	e1c.,f1.
Did you knowingly penetrate any	strate which contained undesirable	12) WEL	L TESTS:	
water? Yes Wa If yes, submit "REPORT OF UNI	DESIRABLE WATER"	Отур	e Test: 🔲 Pump 🖼 🕏	miler
Type of water?	Depth of strata	- Yiel	d:gpm with	20ft, drawdown afterhrs.
	I hereby certify that this well was drille each and all of the statements herein are			
NAME MORK A	1 0	II Drillers Reg	Idai	MAR 1 5 1982
ADDRESS POBOL 5	38 Sta	pheni	ville Ta	1 76401
Signed) Mauk Do	and Q	Do	well wes	1 Service Inc
	lysis, and other partinent information, it	avaitable.	ICompa	ny Mame)
DWR-0392 (Rev. 1-12-79)	DEDA DIMENT OF WA			



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
3	1 of 1	s	0.00 / 0.00	RONNIE QUARLES	TCEQ
			0.00	TX	WELL LOGS
Grid No:		31-55-2			
Date Drille	d:	10/02/1981			
Owners Na	me:	RONNIE QUA	RLES		
County:		ERATH			
Water Usa	ge:	DOMESTIC			
Static Leve	el:	170			
Depth Drill	ed:	240			
Latitude:		32.2485077			
Longtiude:	i	-98.1776157			

Section 1981	8			3			eur
Send original copy by cortified mail to the			of Texas		···	For TDWR usp only	
Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711	ATTENTION OWNER:	ATER WE Confidenti			rse Side	Located on map	165 165
1) OWNER Ronnie Quari						enville Tex	
	(ame)			Washington	(City		(Zip)
County Craw				direction direction	from 17	Epleway (Town)	
Driller must complete the legal descrip with distance and direction from two i tion or survey lines, or he must locate well on an official Duarter- or Half-Sca General Highway Map and attach the n	tion to the right ntersecting sec- and identify the de Toxos County hep to this form.	Abstract Distance	No	Block NoSurvey Non from two intersections	ame ing section or su	rvey lines	
3) TYPE OF WORK (Check):	4) PROPOSED USE (Chec	See attach	ied map.	5) DRILLING ME			
XNew Well Despening	M Domestic □ Industria		upply			☐ Driven ☐ Bored	
☐ Reconditioning ☐ Plugging	☐ Irrigation ☐ Test We)	Other				☐ Jetted ☐ Other _	
6) WELL LOG;	DIAMETER OF HO Dia. (in _i) From (ft.)	DLE To (ft.)		HOLE COMPLETIO	N: Straight Wall	☐ Underrea	med
Date drilled 10-2-81	Surface 0	240		vel Packed	Other	240_11. to_/	190 11
From To	Description and color of for	mation	-	NG, BLANK PIPE, AI			
~ > 00 40	material					T	
100-20 Dold la	0.1 p		Oin. New or Used	Perf., Slotted, e	71C.	Setting (ft.)	Gage Casing
10 -140 Dr. Do Drees	400 mester					From T	o Screen
140-130 DEAD EL)	Seen Clan		41d N	PVC, per	cı.	270 20	O son40
180-200 Dent 0	0						
200770 Travel				34		ļ	
					-		
				and from 190 d used Poure		10O	ft.
		h###	Comen	ted byDowel:	l Well S	ervice. Ind	> .
			Stati	c level 201t.	below land surf	ace Date	
[0]	EGEIVE		10) PAC	KERS:	Гуре	Depth	
		נט					
	AUG 2 5 1982		-				
	DEPT. OF						
- W	ATER RESOURCES		11) TYP	E PUMP:			
7/10			□ Tur		Submers	ible 🔲 Cylind	ier
(Use raverse s	ide if necessary)		Oth		due to an		
13) WATER QUALITY:			Depth	to pump bowls, cylin	der, jet, etc.,		-tu
Did you knowingly penetrate any strata which contained undesirable water? Yes X No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water?			12) WELL TESTS: Typn Test: Pump Bailer Jotted Estimated Yield: Typn Test: Pump User Pump Pump Pump Pump Pump Pump Pump Pump				
Was a chemical analysis made?	Depth of state		552	d: A gom v	enterior di	t. drawdown after 🗸	hrs,
	I hereby cortify that this we each and all of the statemen	ell was drilled ts herein are t	by me (or u	nder my supervision) est of my knowledge i	and that and belief.		
NAME W. D. Dowell	Print)	Water Well	Drillers Regi	stration No.	1268		
ADDRESS P. O. Box	75 1722	phenv11		Texas	Jes	7640	1.
(Signed) WWW.	Divil/	(C)1		ell Well Se	(State) FV1CA, I (Company Name	nc.	
Please attach electric log, chemical anal	lysis, and other partinent info	ormation, if av	eilable.				
TDWR-0392 (Rev. 1-12-79)	DEPARTME	NT OF WAT	FR RESO	URCES COPY			

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
4 1 of 1 NNW	1 of 1	NNW	0.02 / 80.81	KELLY CASSTEVENS	TCEQ
		00.01	ΤX	WELL LOGS	
Grid No:		31-47-8			
Date Drilled	l:	12/18/2000			
Owners Na	me:	KELLY CASS	TEVENS		
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	f:	265			
Depth Drille	ed:	440			
Latitude:		32.2640276			
Longtiude:		-98.1803452			

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy. Telest Department of License and Regula. In This form must be completed and filed with the department of reverse side of owner's copy. P.O. Box 12157 Austin, Texas 78711 (5121463-7880 FAX (512)463-8616 and owner within 60 days upon completion of the well.								
	Email address: water.well@licensc.state.tx.us							
	W	ELL REPO	ORT					
I) OVVINER	+ Appending	4000		en e	skat Marijala			
Kelly Casstovens	Address CR 176	City	teph	envi	lle Tx	7640 (
2) WELL LOCATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
ERATH	Physical Address Same	City			State	Zip		
3) Type of Work	Lat.	Lon	2.		Grid# 3	1-47-2		
New Well Reconditioning	4) Proposed Use (check)			nental Soil	Boring Domestic	5) N	11	
Replacement Deepening	Industrial Irrigation							
	Rig Supply	If Public Supply	well, were p	lans submit	ted? Yes No			
6) Drilling Date	Diameter of Hole				nod (check) 🚨 Driven		ľ	
Started 12/16 100	Dia.(in) From (ft)	To (ft)			Mud Rolary 🚨 Bored			
	6/2 0	440			Cable Tool 🔲 Jetted			
Completed 1318 19			Oth	er				
From (ft) To (ft) Descrip	otion and color of formatio	n material			mpletion 🚨 Open He		П	
0 10 Re	1 Clay				ned 🗷 Gravel Packed C	Otherft_to #600 ft		
10 205 Bl	w Clay Shale Fin	-r			Pipe, and Well Screen		_	
205 220 B	w con khave nem	estone	-	New	Steel, Plastic, etc.	Setting (ft) Gage		
220 290 Res	O Clay		Dia.	Qr .	Perf., Slotted, etc	Casi	ng	
	w Day Found		(in.)	Used	Sercen Mfg., if commercia	From To Scre	en	
250 350 Est	nd + Heren		+-7	14	FOO	- 44		
330 335 RA	O Nous		1					
335 370	2							
	20 Clay		9) Cer	menting	Data			
410 440 Ta	, &		Ceme	nting from	1. to 200 ft.	# of sacks used 25	_	
111 121	I Owner Pcopy, If necessary)		Method	Used Po	ft. toft.	# of sacks used		
13) Plugged	ed within 48 hours		Centent	ing By D	owell well		-	
Casing left in well: Cement/Bentonite	placed in well:		Distance to septic system field or other concentrated contaminationft. Method of verification of above distance					
From (ft) To (ft) From ((t) To (ft)	Sacks used	507 5	-5			_	
					ompletion c Slab Installed			
			☐ Spec	ified Surfac	e Sleeve Installed			
14) Type Pump ☐ Turbine ☐ Jet □	Submersible Cylinder			ss Adupter l oved Altem	Jsed ative Procedure Used			
Other								
Depth to pump bowls, cylinder, jet etc., 15) Water Test	Ω.		II) W	ater Lev	el fighelen Date / 2-	7 / 0/P SEQ#		
Typetest 🔲 Pump 🚨 Bailer 🙉 Jett			Artesia	n Flow	gpm. Date /	J. Seu .		
Yield: gpm with ft. dra 16) Water Quality	wdown after hrs.		12) Ps	ickers	Type	Depublish co		
Did you knowingly penetrate a strata wh	ich contain undesitable constituent	s.	12/11		FEB 1			
Type of water	t a REPORT OF UNDESTRABLE V	WATER	_		I FED X	Y 640.		
Was a chemical analysis made					СОМПЕНЬ	GE C		
Company or individual's Name (ty	ype or print) Dowc ((we (1 5c	Ruic	Lie: No.	891		
Address P.O. Box 4	102 M	City	Step	hence		Zip 764	col	
Signature Mark	Dwell ,	/ si	enatur L	5		21910	1	
Licensed Driller Primp Install	Ditter	MAN THE REAL PROPERTY.	2 3000	APR 254 (1)	CHROCE SECTION OF THE PARTY OF	TO THE REAL PROPERTY OF THE PARTY OF THE PAR	1000	

Pink - Driller/Pump Installer

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
5	1 of 2	N	0.02 / 94.37	Cory Pipal 690 CR 477 Stephenville TX 76401	SDRW WELLS
Track NO: Date Submi Owner Nam Owner Addi	e:	660142 2024-02-23 Cory Pipal 690 CR 477			
Owner Addı	ress2:				
Owner City:		Stephenville			
Owner State	ə:	TX			
Owner Zip:		76401			
County:		Erath			
Type of Work		New Well			
Typ of Wrk Proposed U		Domestic			
Prop Use O		Domestic			
Latitude:	in Desor.	32.264233			
Longitude:		-98.177			
Drilling Date	e Started:	2024-02-22			
Drilling Date	e Completed:	2024-02-22			
Chemical A		No			
Company N		Dowell Well Se	ervice		
Company A		PO Box 402			
CompanyA		Chanhaarilla			
Company C Company S		Stephenville TX			
Company Z		1/			
Company C					
Data Source		Full SDR Data	base		
Report Link		https://www3.tv	wdb.texas.gov/a _l	ps/waterdatainteractive/GetReports.aspx?	Num=660142&Type=SDR-Well
well Boreno	ole Information				
Top Depth:		0			
Bottom Dep	oth:	455			
Well Levels					
Measureme		335			
Measureme	nt Date:	2024-02-22			
Well Strata					
Water Type	:				
Trinity					

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
5	2 of 2	N	0.02 / 94.37	Cory Pipal 2220 CR 176 Stephenville TX 76401	SDRW WELLS
Track NO:		659976			
Date Submi	tted:	2024-02-21			
Owner Nam	e:	Cory Pipal			
Owner Addı	ess:	2220 CR 176			
Owner Addı					
Owner City:		Stephenville			
Owner State):	TX			
Owner Zip:		76401			
County:	_	Erath			
Type of Wor		New Well			
Typ of Wrk					
Proposed U		Domestic			
Prop Use O	th Descr:	22 205522			
Latitude:		32.265533 -98.1777			
Longitude: Drilling Date	Started:	2024-02-21			
Drilling Date	Completed:	2024-02-21			
Chemical A		No			
Company N	•	Dowell Well Se	rvice		
Company A		PO Box 402			
CompanyAd					
Company C		Stephenville			
Company S	tate:	TX			
Company Z					
Company C	ountry:				
Data Source	e:	Full SDR Datab			
Report Link	:	https://www3.tv	/db.texas.gov/ap	ops/waterdatainteractive/GetReports.aspx?N	um=659976&Type=SDR-Well
Well Boreho	ole Information				
Top Depth:		0			
Bottom Dep	th:	435			
Well Levels					
Measureme Measureme		320 2024-02-21			
Well Strata					
Water Type:	:				
Trinity					

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
6	1 of 1	s	0.04 / 192,45	DONNEL GAINES	TCEQ
			192.45	TX	WELL LOGS
Grid No:		31-55-2			
Date Drilled:		02/16/1987			
Owners Name:		DONNEL GAI			
County:		ERATH			
Water Usage:		IRRIGATION			
Static Level:		340			
Depth Drilled:		420			
Latitude:		32.2475232			
Longtiude:		-98.1777498			

Distance

(mi/ft)

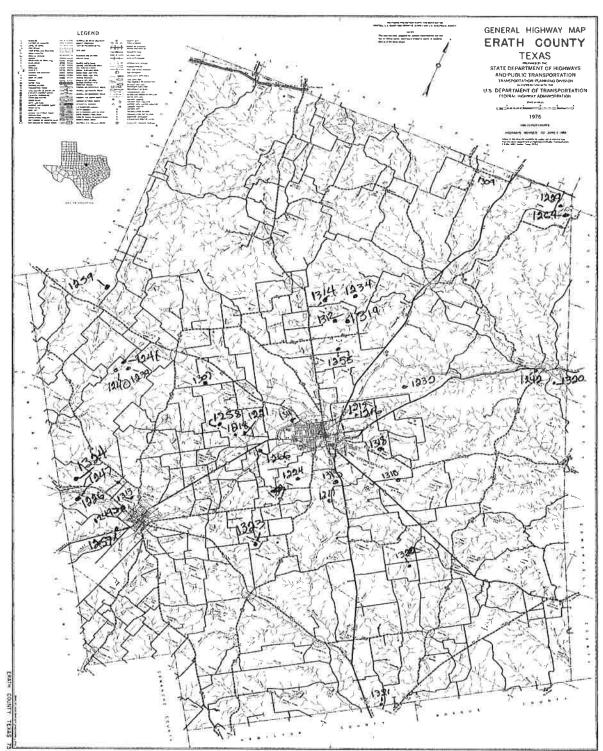
Order No: 24081500488

			•			
Please use black ink, Sand original copy by certified mail to the Texas Water Commission P.O. Box 13087 Austin, Texas 78711		of Texas ELL REPORT Hality Privilege Notice of		Texas Water Well Drillers Board P. O. Box 13087 Austin, Toxas 78711		
1) OWNER Donnel	Daines adams	Rt I Bail	850, Stephe	milla . 21 261		
2) LOCATION OF WELL:	Name Moores Moore		direction from			
	☐ Legal de					
Oriller must compline the legal descr with distance and direction from two tion or survey lines, or he must locat well on an official Quarter- or Half-S General Highway Map and attach the	intersecting sec- e and identify the 2/6 cate Texas County map to this form. Distance	t No.	o intersecting section or sur			
3) TYPE OF WORK (Check):	4) PROPOSED USE (Check):	7 7 7	5) DRILLING METHOL			
New Well Despening	□ Domestic □ Industrial □ Monitor Irrigation □ Test Well □ Injection		Mud Rotery All	r Hammer 🗀 Jetted 🗆 Bored		
6) WELL LOG:	DIAMETER OF HOLE	7) BOREHOLE CO				
Oste Orilling: Started	Dla. (in.) From (it.) To (it.) Surface 7 /3/4 0 420	Open Hole Gravel Packed If Gravel Pack	Straight Wall Other	CI Underreamed		
From To	Description and color of formation	8) CASING, BLANK PIPE, AND WELL SCREEN DATA:				
(ft.) (ft.)	material A	Tu T				
5-25	Section	Un Or Perf	l, Plastic, etc. , Slotted, etc. en Mgl., il commercial	Setting (ft.) Gage Casin From To Scree		
25-180	inale.	7" N. Stee	15/0Hed	0 420 8		
180-210	pand					
362360	CACAC					
310-370	Thales					
400-410	Rod Clay		DUR"	1. No. of Sacks Used 10 1. No. of Sacks Used 11 11 Secure		
		Pilless Adapt	MPLETION face Slab (nstalled (Rule 3 er Used (Rule 319,44(d)) ternativa Procedure Used (f			
		11) WATER LEVEL Static level Artesian flow	340_ft. below land	surface Date 2 16/257		
(D) (S	OEIVED	12) PACKERS:	Туре	Depth		
	[0]	116				
	EP 06 1988	13) TYPE PUMP:				
(1)	WATER COMMISSIO*	☐ Turbine	☐ Jet Submersi			
15] WATER QUALITY:		Depth to pump b	owls, cylinder, jet, etc.,			
Did you knowingly penetrate as water? Yes No If yes, submit "REPORT OF UI Type of water? Was a chemical analysis made?	NDESIRABLE WATER" Depth of strata Yes Yes	14) WELL TESTS: Type Test: Yield:	☐ Pump ☐ Bailer	Jetted		
	off was drilled by ma (or under my supervisions that failure to complete items 1 to					
COMPANY NAME DOWA!	Well Service	Well Driller's License No	1891			
ADDRESS P. O. Brook 1558 Stephenville TX 76401						
(Signad) Mark	Signator Well Driller) (Si	gned)(Registers	d Driller Trainee)	PHO		
Please attach electric log, chemical ar	alysis, and other pertinent information, if		W	or TWC use only 5.5 - 2		

TWC 0392 (Rev. 08-10-85)

TEXAS WATER COMMISSION COPY



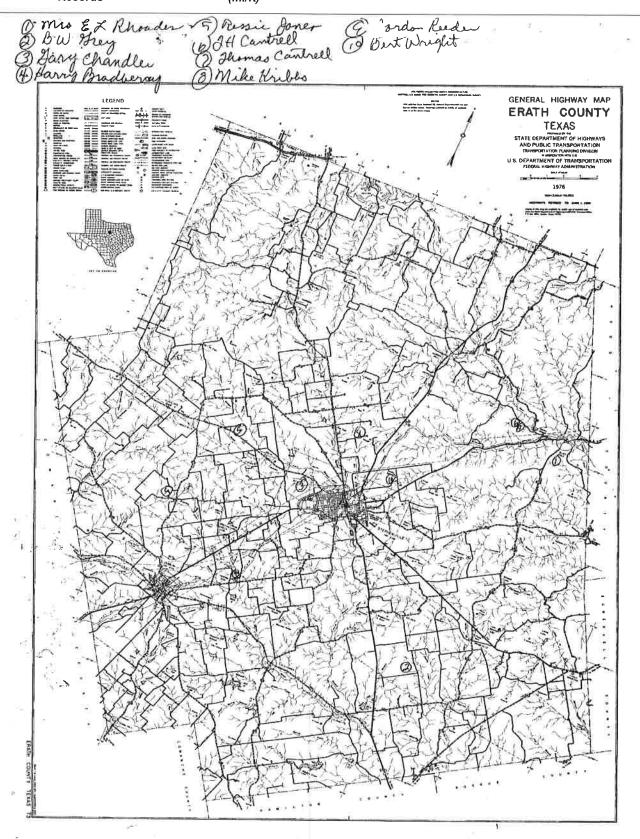


29

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	1 of 1	NNE	0.04 / 194.64	BERT WRIGHT	TCEQ
				TX	WELL LOGS
Grid No;		31-47-8			
Date Drille		10/23/1989			
Owners Name:		BERT WRIGH	Т		
County:		ERATH			
Water Usage:		DOMESTIC			
Static Lev		301			
Depth Dril	led:	429			
Latitude:		32.2606338			
Longtiude:		-98.1752611			

Send original copy by certified mail to: Texas	Water Con	n, P.O. Box 13087	, Austin, Te	189 787	1			Please use	
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side			ate of Te ELL REP				P	ter Well Drill .O. Box 1306 tin, Texan 78	17
1) OWNER BETT (Na 2) LOCATION WELL: County Exacts	Sright	7	DORESS A	2v SW	Street or RF	Stephy D) (C) Irection from Ste	plies	le X (State	764) (Zip)
Distance and direction from two inters	eral Highway Map an	d attach the map only the map of	o this form.				·	e well on an o	fficial
3) TYPE OF WORK (Check): New Well Deepening Reconditioning Plugging	4) PROPOSED U	☐ Industrial ☐	Monitor Injection		bilc Supply Watering	5) DRILLING METH	and productions	r 🗆 Jetted	
Completed 10-18 1984	DIAMETER Dia. (jn.) From Surf	(fl.) To (fl.			REHOLE CO Open Hole Gravel Packed Tavel Packed	Straight Wall		derreamed	fl.
From (ft.) To (ft.) Des	scription and color of	formation material) CAS	ING, BLAN	PIPE, AND WELL SCR	EEN DATA:		
- 6 Jos Sail	lend Ro	-0.	Dia, (In.)	New or Used	Steel, Pla Perf., Slo Screen M		Settln	g (ft.) To	Gage Casting Screen
9-70 Blue St	ale	40	4/2	N	Ste	il	0	429	156
14-265 Blue 65-280 Water 30-394 Blue	Shile				Stor	ted	404	429	4
13) TYPE PUMP:	200	Prave Prave Prave APR t.	I V E	Con O) SUF	iented from	face Slab Installed [Rule	tt. No. of St.	igka Unod _ LLS C	10 Esmes
14) WELL TESTS: Type Test: Pump Den Yield: gpm with	fer □ Jetted T			SIGN	ER LEVEL:	er Used [Rule 287.44(3) ernative Procedure Used	[Rule 287,7		- 2 - C
	REPORT OF UNDE				e levels 20	gpri	1, [Date	می م
Type of water? Was a chemical analysis made?	Yes Dayo			-, -AC	.c.no.	Ducki	ny	7 2	5 1
ereby certify that this well was drilled by me at fallure to complete Itoms, thru 15 will resurp MPANY NAME	(or under my supervi	sion) and that eac returned for compi	elion and res	ubmiltal	ents herein (125	knowledge ar	nd bellef, I und	derstand
gned) (Street or R	or print) No Ne Ne Vell Driller	if S	tes (Sign	led) _	wr	(Sta	m#	(Zip)	<u>'</u>

WWD-012 (Rev. 09/21/88)



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	1 of 2	NW	0.05 / 269.79	SCHREIBER FOODS	WUD
				TX	
Primary Co: Contact Ti: Operating S PWSID: Source ID: Utility Name WTRSRC: Date Drilled Well Depth: Screen Top. Screen Top. Screen Usag Gallons Per CCN: Latitude: Longitude: System Stat	tatus: : : om: e: Minute:	JUSTIN GROTO OPERATOR OPERATIONA 0720026 G0720026B SCHREIBER F G0720026B 09/10/2010 462 317 397 ACTIVE - PER 60 N/A 32.25827778 -98.18144444 ACTIVE	L FOODS INC		

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	2 of 2	NW	0.05 / 269.79	Schreiber Foods 923 CR 176 Well #2 Stephenville TX 76401	SDRW WELLS
Track NO: Date Submi Owner Nam Owner Addi Owner City: Owner State Owner Zip: County: Type of Wok Typ of Wrk Proposed U Prop Use O Latitude:	e: ress: ress2: e: oth Descr: dse:	646869 2023-08-25 Schreiber Food 502 North Madi Green Bay WI 54301 Erath New Well Public Supply			
Longitude: Drilling Date Drilling Date Chemical A Company N Company A Company S Company S Company Z Company C Data Source Report Link	e Completed: nalysis: ame: ddress: ddress2: ity: tate: jp: ountry:	-98.181444 2010-07-19 2010-09-10 Yes Associated Wel PO Box 16 Stephenville TX 76401 Full SDR Datab https://www3.tw	ase; SDRDB W	ell Location (Map) ps/waterdatainteractive/GetReports.aspx?Nu	rm=646869&Type=SDR-Well
Well Boreho	ole Information				
Top Depth: Bottom Dep	th:	0 4			
Top Depth: Bottom Dep	th:	321 462			
Top Depth: Bottom Dep	th:	4 321			
Top Depth: Bottom Dep	th:	462.0			
Well Levels					
Measureme Measureme		308 2010-09-10			
Well Strata					
Water Type	:				
Trinity					

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
9	1 of 1	N	0.05 / 277.73	Nick Braun TBD CR 176 Stephenville TX 76401	SDRW WELLS
Track NO:		543960			
Date Submi	tted:	2020-05-22			
Owner Nam	e:	Nick Braun			
Owner Addi		5411 CR 522			
Owner Addı					
Owner City:		Stephenville			
Owner State	e <i>:</i>	TX			
Owner Zip:		76401			
County:		Erath			
Type of Wor		New Well			
Typ of Wrk Proposed U		Domestic			
Prop Use O		Domestic			
Latitude:	in Descr.	32.266639			
Longitude:		-98.178833			
Drilling Date	e Started:	2020-05-15			
	e Completed:	2020-05-15			
Chemical A	nalysis:	No			
Company N		Dowell Well Se	rvice		
Company A		PO Box 402			
CompanyAc					
Company C		Stephenville			
Company S		TX			
Company Z					
Company C Data Source		Eull SDP Datab	SOON SDDDD W	oll Looption (Man)	
Report Link		https://www.st.	idse; SDRDB W	ell Location (Map) ps/waterdatainteractive/GetReports.aspx?Nui	
Nepon Link	•	nups.//wwwo.tw	/du.texas.guv/ap	ps/waterdatainteractive/GetReports.aspx/Nui	m=543960&Type=SDR-Well
Well Boreho	ole Information				
Top Depth: Bottom Dep	th:	415.0			
Ton Donath		0			
Top Depth: Bottom Dep	th:	0 415			
Well Levels					
Measureme Measureme		310 2020 - 05-15			
Well Strata					
Water Type:	,				

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
10	1 of 1	ssw	0.05 /	DONNEL GAINES	TCEQ
			278.35	TX	WELL LOGS
Grid No:		31-55-2			
Date Drilled	l:	02/15/1987			
Owners Nai	me:	DONNEL GAIL	NES		
County:		ERATH			
Water Usag	e:	IRRIGATION			
Static Level	l:	325			
Depth Drille	ed:	410			
Latitude:		32.2467769			
Longtiude:		-98.1816091			

					9	*
Please black ink, Send orligited edpy by certified hall to the Texas Water Commission P.O. Box 13067 Austin, 1 zens 78711	State WATER W ATTENTION OWNER: Confiden	ELL	REP		on Reverse Side	Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711
2) LOCATION OF WELL:	(Name) Jaines Address &	St.	ontor V s.w.	BOY RED)	850 Styr	henerelle 24
Oriller must complete the legal described in distance and direction from two tion or survey lines, or he must local well on an official Quarter- or Half-S General Highway Map and attach the	o intersecting sec- te and identify the /2/5 Abstrac Scale Texas County or map to this form.	No at No e and d	irectio		ock No Tow Survey Name o intersecting section or s	vnship
3) TYPE OF WORK (Check): New Well Despening Reconditioning DPlugging	4) PROPOSED USE (Check): □ Domestic □ Industrial □ Monitor Mirrigation □ Test Well □ Injection	□ Publi	ic Supp	ρlγ		Air Hammer
6) WELL LOG: Date Drilling: Started	DIAMETER OF HOLE Dia. (in.) From (it.) To (it.) Surface 1214 0 4/0	7}	BORE Ope	n Hole rel Packad	MPLETION:	Underreamed 1350 ft. to 15 ft.
From To (ft.) (ft.)	Description and color of formation material	8)	1		K PIPE, AND WELL SCR	
5- 5-	Sport	Dia. (in.)	New or Used	Perf.	I. Plastic, etc. , Slotted, etc. en Mgf., if commercial	Setting (ft.) Gage Casing Screen To Screen
210-265 25-320 320-370	Shalo					
400-478	Rodday	2	Cemen Metho		300 st. to 350	It. No. of Sacks Used 20 It. No. of Sacks Used
7		1 7	K) Spe	elfiad Sur ess Adapte	MPLETION (ace Sleb installed (Rule : er Used (Rule 319,44(d)) temativa Procedura Used	19
(D)) E	BEIVED		Sta	R LEVEL	325 fr. below land	d surface Date 2/15-87
Lie	EP 0 8 1988	121	PAGE	Eno;		Overing
	a side if necessary)		□ Turb	r	□ Jet □ Submer	sible Cylinder
15) WATER QUALITY: Did you knowingly penetrate a water?	ny strata which contained undestrable NDESIRABLE WATER* Depth of strate Ves *** X No	14)		L TESTS: Test:	☐ Pump ☐ Bailer gpm_with	☑ Jetted ☐ Estimated (t. drawdown after hrs.
I here by certify that this knowledge and belief. I un	well was drilled by me (or under my supervise derstand that failure to complete items 1 th Well Solvice, Water	iru 12 v	vili resa	nach and s ult in the l	og(s) being returned for a	n are true to the best of my Ompletion and resubmittal
ADDRESS P.O. BO (Street or FI)		to pred)	ohe	NV.	ille TX	76401
Please attach electric log, chemical e).	(Registers		For TWC use only 5 - 2

TWC-0392 (Rev. 06-10-85)





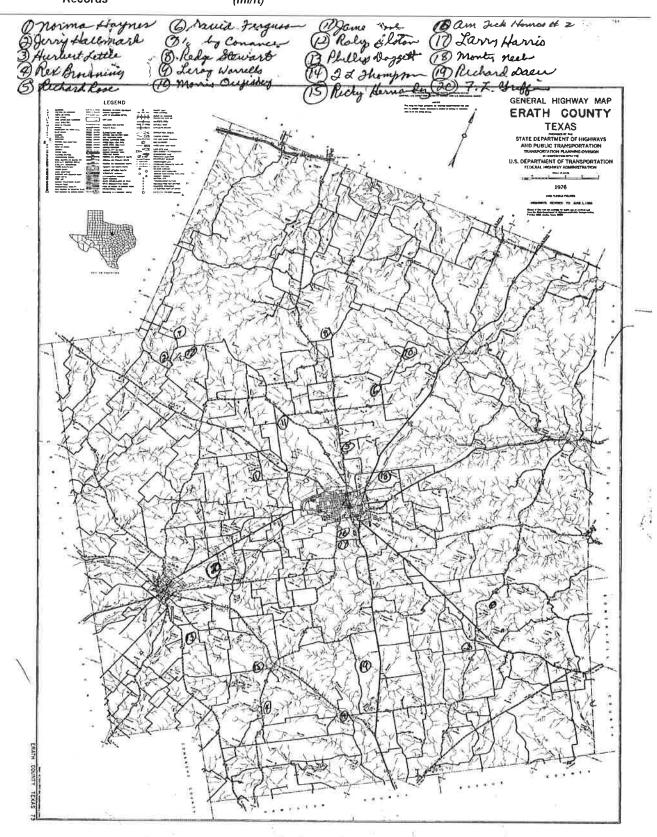
Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
11	1 of 1	N	0.08 / 415.88	Nick Braun TBD CR 176 Stephenville TX 76401	SDRW WELLS
Track NO:		560730			
Date Submi	tted:	2020-12-04			
Owner Nam		Nick Braun			
Owner Addi		TBD CR 176			
Owner Add					
Owner City:		Stephenville			
Owner State		TX			
Owner Zip:		76401			
County:		Erath			
Type of Wo	rk:	New Well			
Typ of Wrk					
Proposed U		Domestic			
Prop Use O					
Latitude:		32.267425			
Longitude:		-98.178392			-
Drilling Date	e Started:	2020-11-16			
Drilling Date	e Completed:	2020-11-16			
Chemical A	nalysis:	No			
Company N	ame:	Dowell Well Se	ervice		
Company A		PO Box 402			
CompanyA	ddress2:				
Company C		Stephenville			
Company S		TX			
Company Z					
Company C					
Data Source		Full SDR Data	base; SDRDB W	ell Location (Map)	
Report Link	:	https://www3.tv	wdb.texas.gov/ap	pps/waterdatainteractive/GetReports.aspx?Nui	n=560730&Type=SDR-Well
Well Boreho	ole Information				
Top Depth:		0			
Bottom Dep	nth*	435			
Dottom Dep	,	400			
Top Depth: Bottom Dep	oth:	435.0			
Well Levels					
Measureme	nt	330			
Measureme		2020-11-16			
Well Strata					
Water Type	:				

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
12	1 of 2	NW	0.08 / 445.55	MONTY NEEB	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nar County: Water Usag Static Level Depth Drille Latitude: Longtiude:	e: :	31-47-8 12/23/1987 MONTY NEEE ERATH DOMESTIC NOT REPORT 357 32.2620272 -98.1826036			

Please use black ink, Send original copy by certified mail to the Texas Water Commission P.O. Box 130B7 Austin, Texas 78711		tate of Te R WELL ofidentiality is	REP			Texas Water Well Drillers & P. O. Box 13087 Austin, Texas 78711	brace
1) OWNER MONTY 2) LOCATION OF WELL: COUNTY ENATE	Neet Addr	1817	Z or	AFO)	Stephene (City) direction from Bl	elle 2 es 76 Ephewill	101
Driller must complete the legal descrivith distance and direction from two tion or survey lines, or he must locat well on an official Quarter- or Hall well on an official Quarter- or Hall Science at Highway Map and attach the	iption to the right Sr p intersecting sec- e and identify the A cale Texts County				nck No Town _ Survey Name o intersecting section or sur		
3) TWE OF WORK (Check): New Well Deepening Reconditioning Plugging	4) PROPOSED USE (Check): Domestic Industrial Monit	tor □Publi	s Supp	ily	☐ Air Rotary ☐ Cal	O (Check): Do	riven ored
6) WELL LOG: Date Drilling 2 - 20 158 Started 12 - 23 18	DIAMETER OF HOLE Dia. (in.) From (it.) To (77 // Surface 9 26/14/90 33	1	Grav	n Halir rel Packed	MPLETION: Straight Wall Other	Underreamed	ft.
Frim Ti.) 0-B 200 6-24 8an 24-60 Blue 60-69 8an 69-85 Blue 85-220 Len 70-300 Blue	Description and color of formation material Sall Rock Shale Shale Islane Sandy Shale	Dia. (in.)	New or Used AV	Stee Part. Scre Scre Stee Stee Stee Stee Stee Stee Stee Ste	K PIPE, AND WELL SCRE I, Plostic, etc. , Slotted, etc. , Slotted, etc. If the many street of the s	Sotting (ft.) From To O 357 337-357	Gage Casin Scree
300-356 Wa	ter Sand + Greo	el	Spe Pitl App WATE	cified Sur ger Adopt proved Ali ER LEVEL	face Slab Installed (Rule 3' er Used (Rule 319:44(d)) ternative Procedure Used (F .: 	Rule 319.71) surface Date 12-23	<u>-87</u>
	D) ECETVE (I) JAN 11 1988	13)	TYPE	ERS:	Type Oucker	Depth Color Cylinder	
16) WATER QUALITY:	ny strate which contained undesirable NDESIHABLE WATER Depth of strate Depth of strate		WEL	o pump b	Pump La Boilor	336 It.	oct
I here by carrify that this v	vell was drilled by me (or under my suiderstand that failure to complete item		ill ron	ult in the I	og(s) being returned for co		/

TWC-0392 (Rev. 06-10-85)

Site

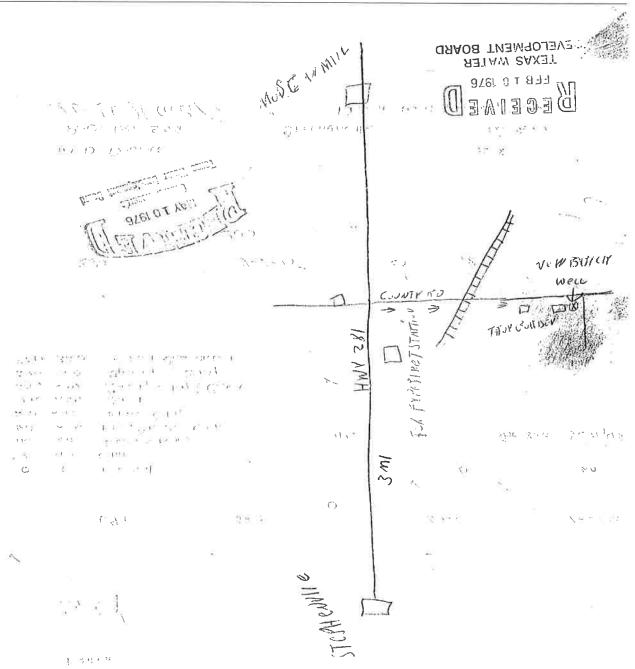


Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
12	2 of 2	NW	0.08 / 445.55	Gordon Carroll 1602 CR 176 Stephenville TX 76401	SDRW WELLS
Track NO: Date Submit Owner Name Owner Addr Owner Addr Owner City: Owner State Owner Zip: County: Type of Wor Typ of Wrk O Proposed U: Prop Use Ot Latitude: Longitude: Drilling Date Company N: Company Ac Company Company Ci Company	e: ess: ess2: k: Oth Descr: se: h Descr: Completed: nalysis: ame: ddress: idress2: ity: iate: p: ountry:		ase; SDRDB We	ell Location (Map) ps/waterdatainteractive/GetReports.asp	ar(N) was constant for the constant of the con
Well Boreho	le Information				
Top Depth: Bottom Dep	th:	435.0			
Top Depth: Bottom Dep	th:	0 435			
Well Levels					
Measuremei Measuremei		300 2023-03-20			
Well Strata					
Water Type:					

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	al.	DB
13	1 of 1	N	0.09 / 449.98	TOBY STONE		TCEQ
			449.96	TX		WELL LOGS
Grid No:		31-47-8M				
Date Drilled	:	09/05/1975				
Owners Nar	ne:	TOBY STONE				
County:		ERATH				
Water Usag	e:	DOMESTIC				
Static Level	:	280				
Depth Drille	d:	320				
Latitude:		32.2662598				
Longtiude:		-98.1769442				

₹						100
und original copy by settified mail to the exam Water Development Board , O. Rox 13007 ustin, Texas 78711		ate of Texas		767 1 (200 - 2)	For TWDB to Well No Located on Received:	map W/
1) OWNER: Person having well drilled Toby	Stone (Name)	Address	(Huckahan)	Hwy) S	tepheno:	le. Tx.
90	(Name)	AVI - NA	Astreet or HED	I. 100000	(CIEY)	(State
Landowner Same		Address	(Street of RFD)	me St	LAW PI	HENVILLE (State
2) LOCATION OF WELL;			2120	OAK	LAWN PI	2.
County ERATH		miles in	W., etc.)	tion from		Town)
Locate by sketch map showing landmarks, ro hiway number, etc.*	ada, creeks,	Give	legal location wi	ith distances survey lines.	and directions	
and a Ri		Labor			League	
over	North	Block			Survey	
,	1	Abstra	ect No.			
(Uso reverse wide if necessary)		(PM / 3	NET SWE SEE) OF S	ection		
3) TYPE OF WORK (Check):	4) PROPOSED USE (C)		5)"	TYPE OF WELL	(Check):	
Wew Well Deepening		ndustrial Muni	lcipal +4	totary	Driven	Dug
Reconditioning Plugging	Irrigation 1	fest Well Othe	te C	Cable	Jettod	Bored
From To Description a (ft.) (ft.) formation		9) Caning: Type: (Old New		/Plantic	Other
0 3 TOP 901		Comente		0	_Et. to _	60_
3 40 Clay		Diameter		Setting		
40 60 Lumestons.		(inches)	From	(ft.)	To (ft.)	Gage
100 200 Blue Shale & C	: ley	41/2	0		320	SCH.
200 240 Blue Clay						
240 255 Samd		10) SCREEN:				
255 280 Sandy Clay	Coal	Type				3
280 300 Gravel & C		Merforat	ed bo:		Slocted	
300 320 ? Lost Ciacu		Diameter (inches)	From	Setting	To (ft.)	Slot
					27 (10.7)	
				-		
(Use reverse side if necessar 7) COMPLETION (Check);	TY)	11) WELL 17	STS:			
Straight wall /Gravel packed	Other	Was a	sump test made?	Yea ,	No If yes	, by whom?
Under reamed Open Hole		0.000.000				
B) WATER LEVEL: 5 000	9	Yteld:		.35	_Et. drawdown :	
Static level 280 ft. below land surf		S Hailer	test 20 gpm v	15 th	_ft.drawdown as	fterh
Artesian pressure lbs. per square i	_		an flow	_8pm		
Depth to pump bowls, cylinder, jet, etc.,	300	ft. Tempera	nture of water			
below land surface,		12) WATER QU	DALITY: chemical analysi:	s made ?	Yes	: Stannar
		11	/ strata contain			. 6.
12.			f water?			
I hereby centify	that this well was				pth'of strata_	
NAME W.D. Dowell (Type or Print)	he statements herei	n are true to the b	llers Registration	edge and beli	68 64.	
ADDRESS P.O. Box 558	1	Stephonoul	c	F.,	x. gada	
(Street or RFD)) On a	10	Stephenoill	CON NAME OF THE PARTY OF THE PA		(State)	
(Signed) // / / Swell		· Dou	sell Well	Service	I INC.	
(Water Well Drillery			11	Commence was Alexandre		
(Water Well Drillory	3		(4	locupa ny Name)		

TWD85-WD-6



Information furnished in Section 2) of the TWDRE-CV-53 is vary importent. Unless the well can be accurately located on a map

When giving a legal description include a sketch showing location of the well within the described stat. e.g. survey speciate.

Reference points from which distences are secented and directions given should be of a parameter need to nearest from the distence of the count, their sections from the count of the count, the count of the count o

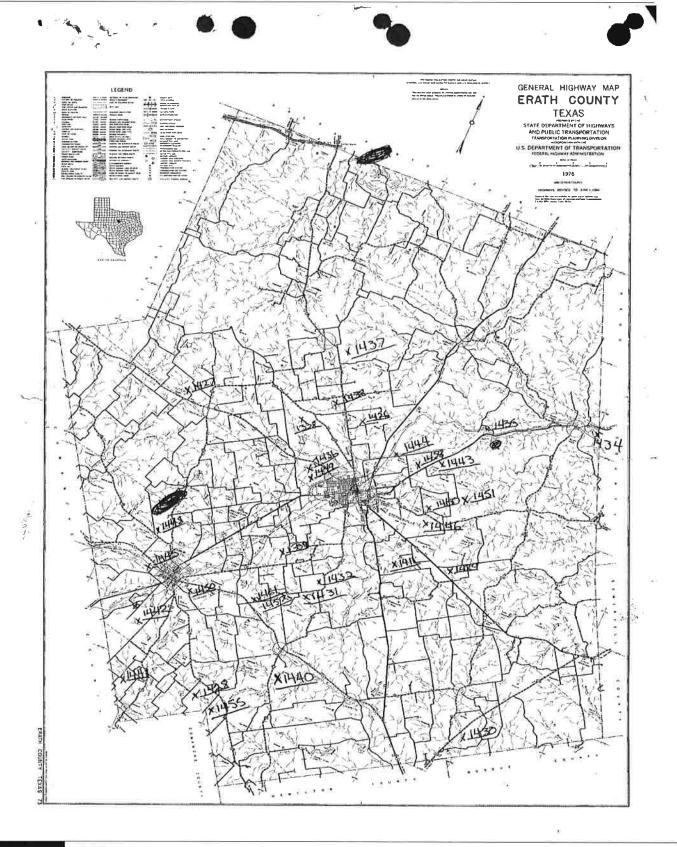
The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient dotail so that the well may be plotted on a General Highway Map of the county in which the well is located.

S) FOCULTON OF WELL:

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
14	1 of 2	NNW	0.11 / 588.80	DON COAN	TCEQ
				TX	WELL LOGS
Grid No: Date Drille Owners Na County: Water Usa; Static Leve Depth Drill Latitude: Longtiude	ame: ge: el: led:	31-47-8 01/24/1990 DON COAN ERATH DOMESTIC 310 400 32.2664453 -98.181638			

State of Texas WELL REPORT The provided in the provided of the provided in th	o original copy by certified mail to: Texas Water (on, P.O. Box 13	087, Auelin, Tex	as 757	41			Please use	black ink.
2 LOCATION OF WELL: County Chairmon County Chairmon County Cou					#1	444	P.	O. Box 1308	7
Courser or Hath-Scale Traces Coursy General Highrey Map and stands the map to Sets form. Course Description Section No. S	2) LOCATION OF WELL:	4	-		#WASHED OF STREET) / (c)	(y)	(State)	76461 (Zip)
Competed Despending Programs Promestic Industrial Developing Programs Developing Programs Developing	Ouarter- or Half-Scale Texas County General Hight LEGAL DESCRIPTION: Section No Block No Distance and direction from two intersecting se	way Map and attach the maTownship ction or survey lines	p to this form. Abs	tract N			·		ficial
Date Drilling: Started Ompleted 19 20 Dis. (iii.) Started Ompleted Ompl	☑New Well ☐ Despening ☑	omestic Industrial		_		☐ Mud Rotary	Air Hamme	benet 🗖 w	☐ Bored
New or Perf. Sotted, etc. Serting (ft.) Gage (asting or Perf. Sotted, etc. Serting (ft.) Casting (asting of Perf. Sotted, etc. Serting (ft.) Casting (asting of Perf. Sotted, etc. Serting (ft.) Casting (asting of Perf. Sotted or Perf. Sotted Perf. Sotte	Date Drilling: Started 19	From (ft.) To Surface	(ft.)		Open Hole	Straight Wall			<u></u>
Support Supp		and color of formation mate	Ola.	New	Steel, Plas Perf., Slot	atic, etc. ted, etc.	Settin		Casting
Turbine	337-340 B 340-370 R 370-400	Mavel	y	Ce	MENTING DA	TA [Rulo 287.44(1)] (2) 11. to 34(1)	n. No. of Si	acks Used _/	
Yes Two If yes, submit "REPORT OF UNDESIRABLE WATER" 12) PACKERS: Typo Depth	Turbine	SEP 5 1991 District Dissimal Communication C	O Dad	1) W//	RFACE COMP Specified Surf Pitiess Adapte Approved Alte ATER LEVEL: atic level 3	race Slab Installed (Rule 287,44(3) or Used (Rule 287,44(3) or attive Procedure Used	(Rule 287.7	1]	Ω
that failure to complete terms 1 thru 15 will result in the log(e) being returned for completion and resubmittail. COMPANY NAME DOWELL WELL SERVICE WELL DRILLER'S LICENSE NO. 1891 ADDRESS P.O. Box SSSS STEPHENVIIIE TX 7640 (Street or RFD) (City) (Street) (State)	Yes Two If yes, submit *REPOR* Type of water? Depth o	OF UNDESIRABLE WAT	ER*	_					
Please attach electric log, chemical analysis, and other pertinent information, if available. For TWC use only: Well No. 31-47.8 Located on map	that failure to complete Items 1 thru 15 will result in the COMPANY NAME DOWELL WE (Type or print) ADDRESS P. O. Bo X (Street or RFD) (Signed) (Ucensed Well Drill)	log(e) being returned for co	mpletion and res ICE WES TEPH (City	L DRI	al. LLER'S LICEN	SE NO	891 X Ner Trainee)	76 4 (Zip)	1. 1

WWD-012 (Rev. 09/21/88)



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
14	2 of 2	NNW	0.11 / 588.80	A T GORDON	TCEQ
			300.00	TX	WELL LOGS
Grid No:		31 - 47-8M			
Date Drilled	:	10/12/1978			
Owners Nai	ne:	A T GORDON			
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	:	260			
Depth Drille	d:	320			
Latitude:		32.2664453			
Longtiude:		-98.181638			

Send original copy by				For TVD	8M
cortified mall to the Toxas Vater Development Board P. O. Box 13087	State of	Texas		Well No Located	. 31-47-11m
Austin, Texas 78711	WATER WELL	REPORT		Receive	on map JG
1) OWNER: Ferson having well drilled A.	T. GORDON	Address Rt	2 steph	enville	Texas
Landowner 50 me	(Rame)	Address	ect or RFD)	(City)	(State)
2) LOCATION OF WELFTO		(Str	ect or RFD)	(Gity)	(State)
county RATH	Amiles	in N.E. S.W., c	direction from	Agola	enville
Locate by sketch map showing landmarks hiway number, etc.*	, roads, creeks,	Give legal	location with distant ctions or survey lin	ces and direction	
2 =		1	ections of survey III		
1 I VWELL	North	Block			
Ď. T T. NO.	4	Abstract No		Survey	
(the reverse mide if necessary	<u> </u>	II.	k SEk) of Section		
3) TYPE OF WORK (Check):	4) PROPOSED Check):			100	
New Hell Deepening	Domestic Industri	al Municipal	5) TYPE OF WE	LL (Check): Driven	Dug
Reconditioning Plugging	Irrigation Test We	11 Other	Cable	Jetted	Bored
6) WELL LOG: Dismeter of hole 644 in Den	th drilled 320 ft. D		woll 320		2.
		1		_ft. Date drill	led /3-12-7
	menaurementa made from		ve ground level.		
	on and color of ion material	9) Casing: Type: Old	Stee	RYC	Other
0-5 T.	<	Gemented from	R	ft. to	220 ft.
5-35	alacho	Diameter	Setting		
35-220	ha O.a	(inches)	From (ft.)	To (ft.)	Cage
120-235	200	470.		320	Jah 40
135-180	L. C.C.	N 0250			
101 300	The Court				
20 020	aree \	10) SCREEN: Type			
		Perforated		Slotted	
		Dismeter	Setting		Slot
		(inches)	From (ft.)	To (ft.)	Size
		\mathcal{H}	280	320	316
Use reverse wide if nec					
7) COMPLETION (Check):		11) WELL TESTS:		/	
Straight wall Gravel packed	Other	Was a pump to	ast made? Yes	lf ye	a, by whom?
Under reamed Open Hole		Yiold	641		
Static level 260 ft. below land	surface Date 10-12-78		gpm with		
-Marie		Bailer test	X22	ft.drawdown	afterhrs.
	/ A A A	Artesian flow	4		
Depth to pump bowls, cylinder, jet, e	te., NO PUMP It.	Temperature o	of water		
below land surface.		12) WATER QUALITY:	: al analysis made?	Yes	1
	1		-		"//
	1		ta contain undasirabl		cs CTo.
T handle week		Type of water		depth of strata	<u> </u>
each and all	ify that this well was drilled of the statements herein are t	by we (or under n	my supervision) and t f my knowledge and be	hat Lief.	
NAME W. D. Dowell		er Well Drillers F		1268	
ADDRESS P. D. BAL 558	51	hear 16	Tail	71.0	, II
(Street) RIP)	COLLE	neworte.	· /exas	(State)	
(Signed) WW Water Well will		Dowe	11 Well 3	ERVICE	forc.
(water well Aftit			(Company Nam	(e)	
Please attach electric log, chemical ana	lysis, and other pertinent info	ormation, if avail	lable.		
*Additional instructions on reverse side					

TWORE WO #

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
15	1 of 1	N	0.11 / 599.80	Nick Braun TBD CR 176 Stephenville TX 76401	SDRW WELLS
Chemical A Company N	e: ress: ress2: rk: Oth Descr: lse: th Descr: e Started: e Completed: nalysis: ame:	543961 2020-05-22 Nick Braun 5411 CR 522 Stephenville TX 76401 Erath New Well Domestic 32.267111 -98.180167 2020-05-20 2020-05-20 No Dowell Well Sel PO Box 402	rvice		
Company A Company A Company C Company S Company Z Company C Data Source Report Link	ddress2: ity: tate: ip: ountry: e:	Stephenville TX Full SDR Datab		ell Location (Map) ps/waterdatainteractive/GetReports.a	aspx?Num=543961&Type=SDR-Well
Well Boreho	ole Information				
Top Depth: Bottom Dep	th:	0 435			
Top Depth: Bottom Dep	th:	435,0			
Well Levels					
Measureme Measureme		325 2020-05 - 20			
Well Strata					
Water Type.					

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
16	1 of 2	NE	0.12 / 615.92	Kenneth Gifford 4171 CR 177 stephenville TX 76401	SDRW WELLS
Track NO: Date Submitto Owner Name Owner Addre Owner Addre Owner City: Owner State: Owner Zip: County: Type of Work Typ of Wrk O Proposed Us Prop Use Otl Latitude: Longitude: Drilling Date Drilling Date Chemical An Company Na Company Ad Company Cit Company Cit Company Cit Company Co Data Source: Report Link:	c: ess2: th Descr: e: n Descr: Started: Completed: alysis: me: dress: dress2: y: ste: o: untry:		ise; SDRDB We	ell Location (Map) ps/waterdatainteractive/GetReports.aspx?Num=329374&7	ovno-SDR Woll
Well Borehol Top Depth: Bottom Depth: Top Depth: Bottom Dept		115.0 0 115	· · · ·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Well Levels		110			

Well Strata

Measurement:

Measurement Date:

Water Type:

Fresh

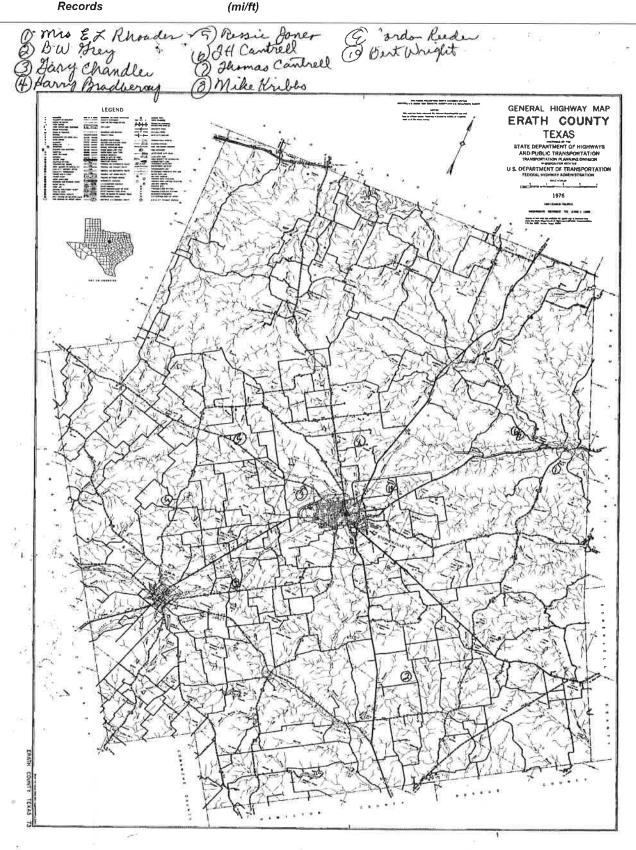
60

2013-07-31

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
16	2 of 2	NE	0.12 / 615.92	BERT WRIGHT	TCEQ
			015.92	TX	WELL LOGS
Grid No:		31-47-8			
Date Drilled	:	10/23/1989			
Owners Nai	ne:	BERT WRIGH	Т		
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	:	301			
Depth Drille	d:	429			
Latitude:		32.2593622			
Longtiude:		-98.1718074			

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Zip)
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WWD-012 (Rev. 09/21/88)



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
17	1 of 1	N	0.12 / 627.49	Nick Braun TBD CR 176 Stephenville TX 76401	SDRW WELLS
Track NO:		560729			
Date Submi	tted:	2020-12-04			
Owner Nam	e:	Nick Braun			
Owner Addı	ress:	TBD CR 176			
Owner Addı					
Owner City:		Stephenville			
Owner State):	TX			
Owner Zip:		76401			
County:	_	Erath			
Type of Wor		New Well			
Typ of Wrk		D			
Proposed U Prop Use Of		Domestic			
Latitude:	in Descr:	22 267770			
Lantude. Longitude:		32.267778 -98.1775			
Drilling Date	Started:	2020-11-12			
	Completed:	2020-11-12			
Chemical A		No			
Company N	•	Dowell Well Se	rvice		
Company A		PO Box 402			
CompanyAc					
Company C	ity:	Stephenville			
Company S	tate:	TX			
Company Zi					
Company C					
Data Source				ell Location (Map)	
Report Link	:	https://www3.tw	/db.texas.gov/ap	ps/waterdatainteractive/GetReports.aspx?N	lum=560729&Type=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dep	th:	435			
	••••	,,,,			
Top Depth: Bottom Dep	th:	435.0			
Well Levels					
Measuremei	n#•	325			
Measureme		2020 - 11-12			
Well Strata Water Type:					
,,,,,,					

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
18	1 of 1	N	0.12 / 656.82	James Sommer 325 CR 477 Stephenville TX 76401	SDRW WELLS
Track NO:		203770			
Date Submit	ted:	2010-01-06			
Owner Name	e:	James Sommer			
Owner Addr	ess:	325 CR 477			
Owner Addr	ess2:				
Owner City:		Stephenville			
Owner State	:	TX			
Owner Zip:		76401			
County:		Erath			
Type of Wor	k:	Replacement			
Typ of Wrk					
Proposed U		Domestic			
Prop Use Of	h Descr:				
Latitude:		32.265834			
Longitude:	S	-98.175555			
Drilling Date		2009-12-28			
	Completed:	2009-12-29			
Chemical Ai		No Dowell Well Ser	ulaa		
Company Na Company A		PO Box 402	vice		
CompanyAd		F O BOX 402			
Company C		Stephenville			
Company St		TX			
Company Zi		76401			
Company C					
Data Source		Full SDR Databa	ase; SDRDB W	ell Location (Map)	
Report Link.	!			pps/waterdatainteractive/GetReports.aspx?Num=203770&T	ype=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dep	th·	395			
Вошот Вер	<i>u.,</i>	000			
Top Depth: Bottom Dep	th:	395.0			
Well Levels					
Measureme	nt:	275			
Measureme		2009-12-29			
Well Strata					
Water Type:					

fresh

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
19	1 of 2	N	0.14 / 725.99	Elizabeth Tatsch 2488 CR 176 Stephenville TX 76401	SDRW WELLS
Track NO: Date Submit Owner Nam Owner Addr Owner Addr Owner City: Owner State	e: ress: ress2:	335178 2013-08-15 Elizabeth Tatsch 2488 CR 176 Stephenville TX	ı		
Owner Zip: County: Type of Wor Typ of Wrk (Proposed U	rk: Oth Descr:	76401 Erath Replacement Domestic			
Chemical Ar	e Started: e Completed: nalysis:	32.266667 -98.176111 2012-05-23 2012-05-23 No			
Company No Company Ac Company Company St Company Zi Company Company Company Company Company Company Company Company No	ddress: ldress2: ity: tate: p:				
Data Source Report Link);	Full SDR Databa https://www3.two	ise; SDRDB We lb.texas.gov/app	ll Location (Map) s/waterdatainteractive/GetReports.aspx?Nเ	ım=335178&Type=SDR-Well
Well Boreho	le Information				
Top Depth: Bottom Dep	th:	430.0			
Top Depth: Bottom Dep	th:	5 430			
Top Depth: Bottom Dep	th:	0 5			
Well Levels					
Measuremer Measuremer		350 2012-05-23			
Well Strata					
Water Type:					

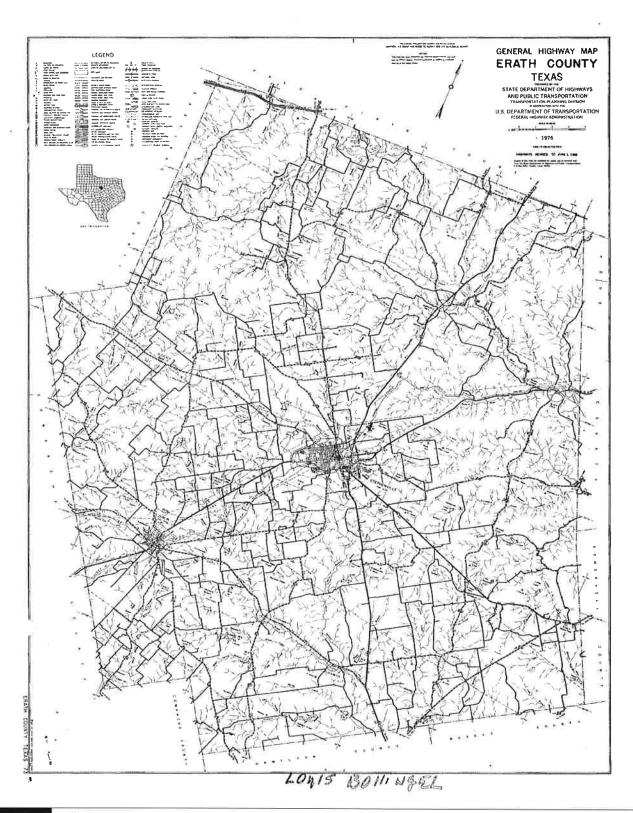
Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
19	2 of 2	N	0.14 / 725.99	ED TATSCH	TCEQ WELL LOGS
				TX	WELL LOGS
Grid No:		31-47-8			
Date Drilled	:	09/06/2001			
Owners Nar	ne:	ED TATSCH			
County:		ERATH			
Water Usag		DOMESTIC			
Static Level		330			
Depth Drille	d:	537			
Latitude:		32.2668439			
Longtiude:		-98.1763323			

	(
ATTENTION OWNER: Confidentiality STATE OF TEXAS Privilege Notice on Reverse Side MATER WELL REPORT 1) OWNER: TATSCH, ED ADDRESS: 2488 CR 176 C1TY	: STEPBENVILLE STATE: TX ZIP: 76401-
1) OMBER: TATSCH, ED ADDRESS: 2466 CR 176 2) ADDRESS OF WELL: County: BRATH GRID # 31-47-8 Street or RFD: SMITH SPRINGS RD City, State, Zip code: STEPHENVILLE , TX 76401-	5)
3) TYPE OF WORK: NEW MELL 4) PROPOSED USE: DOWNSTIC If Public Supply well, were plans sub	mitted to the TNRCC?
DIAMETER FROM TO 6.75 SUR 537 AIR ROTARY COMPLETED: 09/06/01	GRAVEL PACKED IP GRAVEL FROM 287 FT. TO 537 FT. FROM FT. TO FI.
CASING, BLANK PIPB, AND WBLL SCRBEN DATA: DIA NEM/USBD DESCRIPTION FROM TO GAGE CASING SCRBEN 4 N PLASTIC, BLANK 0 477 SCH40 4 N PLASTIC, SLOTTED 477 537 SCH40	
GROLOGICAL DESCRIPTION: FROM TO DESCRIPTION 0 1 TOP SOIL 1 30 SANDY CLAY CALICHE SAND 30 150 RED AND BLUE CLAY SAND SANDY CLAY 150 195 RED AND BLUE CLAY 195 220 BLUE AND GREY CLAY LINESTONE-SHALE 220 275 SANDY CLAY SAND 275 325 BLUE SANDY CLAY RED CLAY 325 335 SAND-GRAVEL 335 347 BLUE SANDY CLAY SANDSTONE 347 425 SAND-GRAVEL 425 435 RED AND BLUE CLAY SANDY CLAY 425 435 RED AND BLUE CLAY SANDY CLAY 436 498 SAND-GRAVEL 438 537 CLAY SHALE 13) TYPE PUMP: 14) WELL TEST: SUBMERSIBLE	9) CEMENTING DATA: Cemented from No. of Sacks Used 0 FT. TO 287 FT. 30 FT. TO FT. Method used: CEMENT-PUMPED Cemented by: GANY Distance to septic field lines: 100+ ft. Method of verification of above distance: CUSTOMBR 10) SURPACE COMPLETION: SPEC. STEEL SLEAVE 11) MATER LEVEL: STATIC LEVEL: 330 FT. DATE: 09/06/01 ARTESIAN FLOW: GPM. DATE: 12) PACKERS: TYPE DEPTH
DEPTH TO PUMP: 380 YIELD: 16 GPM WITH UNKN PT 1 15) WATER QUALITY: TYPE OF WATER: NO STRATA OF UNDESTRABLE WATER PENETRATED	NO CHEMICAL ANALYSIS NADE
COMPANY NAME: ASSOCIATED SERVICES WATER WELL DRILLER'S LICENSE NO. ADDRESS: P.O. BOX 16 CITY: STEPHENVILLE STATE: TX ZIP CO I REREBY CERTIFY THAT THIS WELL WAS DRILLED BY ME (OR UNDER MY SUPERVISION) ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I UNDERSTAND THAT PAILURE LOG(S) BEING RETURNED OR COMPLETION AND ESUBMITTAL.	DE: 76401 MBLL NO. LOCATED ON MAP AND THAT RACH AND ALL OF THE STATEMENTS HEREIN
(signed) (LICENSED WATER WELL DRILLER)	(REGISTERED DRILLER TRAINER) FILE ID OCT 0 9 2001 OCT OCT OCT OCT OCT OCT OCT OC

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	1 of 2	NW	0.17 / 880.64	LOUIS BOLLINGEL	TCEQ
		000.04	ΤX	WELL LOGS	
Grid No:		31-47-8			
Date Drilleo	l:	04/14/1993			
Owners Nai	ne:	LOUIS BOLLII	NGEL		
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	l :	31			
Depth Drille	ed:	75			
Latitude:		32.261111			
Longtiude:		- 98.185			

end original copy by certified mail to: Tesu	ne Water Cor No	on, P.O. Box 13087, Ac	eun, Texas 76711		-		Please use i	_	
ATTENTION OWNER: Confidentially Privilege Notice on Reverse Side		State of Yexas WELL REPORT				Texas Water Well Drillers Board P.O. Box 13037 Austin, Texas 78711			
2) LOCATION OF WELL:	(eme)	mies	in <u>N</u> (NE, SW, ex	chi	oction from <u>Steph</u>	enville (Town)		
Cuarter or Haif-Scale Texas County Ger LEGAL DESCRIPTION: Section No Block No Distance and direction from two inte BEE ATTACHED MAP	neral Highway Mep a	ahip	s form. Abstract No.	·					
3) TYPE OF WORK (Check): ED New Weil Deepening Progging	4) PROPOSED SixDomestic Irrigation	☐ Industrial ☐ M	ortion Public		6) DRILLING METH Mud Rotary [St. Air Rotary [
6) WELL LOQ: Date Drilling: Started 4/14 1e93 Completed 4/14 1e93	Dia. (In.) Fro	m (ft.) To (ft.)	Op.	en Hole wel Packe	MPLETION: Straight Wali Other Intervel from		Serreamed	ft.	
From (ft.) To (ft.) D	escription and color of	Lahetam notamon to	B) CASIN	G, BLANK	PIPE, AND WELL SCR	EEN DATA:			
21 34 34 49 49 51 51 61 61 75 (Use reverse 13) TYPE PUMP:	etc., 60		6) CEME Cemer Methox Cerner 10) SURFJ	Plas NTING DA Noted from _ dured _ dured by _ ACE COMI ecified Sur ecified Stellers Adapte	TA [Rude 287.44(1)] 1 tic TA [Rude 287.44(1)] 1 tic TA [Rude 287.44(1)] 1 tic Conventional	e 287.44(2)(A) e 267.44(3)(A) (6)]	To 75		
Yleid: 10 gpm with 5 ft. drawdown after 1 hrs. 15) WATER CUALITY: Old you knowingly penetrate any strata which contained undestrable constituents? Old you knowingly penetrate any strata which contained undestrable constituents? Old you knowingly penetrate any strata which contained undestrable undestrable constituents? Old you knowingly penetrate any strata which contained undestrable water? Old you knowingly penetrate any strata which contained undestrable constituents? Old you knowingly penetrate any strata which contained undestrable constituents?			11) WATEL Static I Artesia 12) PACKI	evel _3: n flow _	R. below land a pr	m. 0	hateDepth	L4/9	
ereby certify that this well was drilled by in at fallure to complete items 1 thru 15 with resemble Disa (Typ.) DORESS P. (Street o	ne (or under my supe ssuit in the log(s) belo mond_Dr.illi se or print)	ng returned for complete	on and resubmittal. WELL DRILLE Granbury, (City)		are true to the best of my ISE NO. 2682 TX (Sta	7.6	id bellef, i uni	Je rutauru	
(License	d Well Dritter)	Information If available	(Signed)	TWC use	(Registered Dri		ed on map 2	7.47	

TWC-0199 (Rev. 05-18-90)



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	2 of 2	NW	0.17 / 880.64	CDS STXDC 2021 LLC 923 County Road 176 Stephenville TX 76401	SDRW WELLS
Track NO:		605326			
Date Submit	tted:	2022-05-17			
Owner Nam		CDS STXDC 2	2021 LLC		
Owner Addr	ess:	125 Camelot E)rive		
Owner Addr	ess2:				
Owner City:		Fon Du Lac			
Owner State);	WI			
Owner Zip:		54935			
County:		Erath			
Type of Wor	rk:	New Well			
Typ of Wrk					
Proposed U		Industrial			
Prop Use Of	th Descr:				
Latitude:		32.261111			
Longitude:		-98.185			
Drilling Date	Started:	2022-05-11			
	Completed:	2022-05-16			
Chemical A		No			
Company N			ell Services, Inc.		
Company A		PO Box 16			
CompanyAc		Otanham illa			
Company Company St		Stephenville TX			
		76401			
Company Zi Company C		70401			
Data Source		Full SDR Data	haca: SDRDR W	ell Location (Map)	
Report Link				ops/waterdatainteractive/GetReports.aspx?Nun	n=6053268.Type=SDD \Moll
	ele Information		as.ionasigavia	por material administration of the control of the c	TO COOLEGE TYPE CONTENT
Top Depth: Bottom Dep	th:	424.0			
Top Depth:		0			
Bottom Dep	th:	5			
Top Depth:		5			
Bottom Dep	th:	424			
Well Levels					
Measureme		299			
Measureme	nt Date:	2022-05-16			
Well Strata					

Water Type:

2nd Trinity

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
21	1 of 1	N	0.20 / 1,034.32	RANDY TATSCH 3055 CR 176 STEPHENVILLE TX 76401	SDRW WELLS
Track NO: Date Submitt Owner Name Owner Addre Owner Addre Owner City: Owner State: Owner Zip: County: Type of Work Typ of Wrk O Proposed Us Prop Use Ott Latitude: Longitude: Drilling Date Chemical An Company Na Company Ad Company Ad Company Cit Company State Company Cot Data Source: Report Link:	ess: ess2: ess2: ess2: especial passes:	562001 2020-12-20 RANDY TATSC: 3055 CR 176 STEPHENVILLE TX 76401 Erath New Well Domestic 32.268056 -98.176667 2020-10-23 2020-10-23 No BENNETT WAT 7300 W. HWY 3 TOLAR TX 76476 Full SDR Databa https://www3.two	ER WELL DRILL 77 ase; SDRDB Wel		x?Num=562001&Type=SDR-Well
Well Borehol	e Information				
Top Depth: Bottom Depti	h:	0 425			
Top Depth: Bottom Depti	h:	425,0			
Well Levels					
Measuremen Measuremen		340 2020-10-23			
Well Strata					

Water Type:

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
22	1 of 1	ssw	0.20 / 1,062.96	Texas Agrilife Research Off of Smith's Springs Road Stephenville TX	SDRW WELLS
Track NO:		336732			
Date Submi	tted:	2013-08-20			
Owner Nam	e:	Texas Agrilife F	Research		
Owner Addi	ress:	1229 Hwy 281			
Owner Addi	ress2:				
Owner City:	;	Stephenville			
Owner State	e:	TX			
Owner Zip:		76401			
County:		Erath			
Type of Wo		Replacement			
Typ of Wrk					
Proposed U		Domestic			
Prop Use O	th Descr:				
Latitude:		32.243889			
Longitude:	- 0441	-98.180278			
Drilling Date		2012-05-03			
Chemical A	e Completed:	2012-05-03			
Company N		No Associated Ser	vices		
Company A		Associated Sei	vices		
CompanyA					
Company C					
Company S					
Company Z					
Company C					
Data Source		Full SDR Datab	oase; SDRDB W	ell Location (Map)	
Report Link	:			pps/waterdatainteractive/GetReports.aspx?Num=33	6732&Type=SDR-Well
Well Boreho	ole Information				
Top Depth: Bottom Dep	oth:	450.0			
Top Depth: Bottom Dep		0 100			
Top Depth:		100			
Bottom Dep	oth:	450			
Well Levels					
Measureme Measureme		330 2012-05-03			
Well Strata					
Water Type	<i>:</i>				
Trinity					

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
23	1 of 1	WNW	0.21 / 1,100.01	CDS STXDC 2021, LLC 1356 CR 176 Stephenville TX 76401	SDRW WELLS
Track NO:	44 I	598115			
Date Submi Owner Nam		2022-02-26 CDS STXDC 2	0021 11.0		
Owner Add	ress:	125 Camelot D			
Owner City: Owner State	,	Fond du Lac WI			

Owner Zip: 54935
County: Erath
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Irrigation

 Prop Use Oth Descr:
 32.258379

 Latitude:
 -98.186473

 Longitude:
 2022-02-17

 Drilling Date Started:
 2022-02-17

 Drilling Date Completed:
 2022-02-17

 Chemical Analysis:
 No

Company Name: Moore's Water Well Service Company Address: 3633 South Hwy 281

CompanyAddress2:
Company City:
Company State:

TX

Company State: TX
Company Zip: 76067
Company Country:

Data Source: Full SDR Database; SDRDB Well Location (Map)

Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=598115&Type=SDR-Well

Order No: 24081500488

Well Borehole Information

Top Depth: Bottom Depth:

440.0

Top Depth: 0
Bottom Depth: 440

Well Strata

Water Type:

Fresh

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
24	1 of 1	WNW	0.27 / 1,413.71	CDS STXDC 2021, LLC 1356 CR 176 Stephenville TX 76401	SDRW WELLS
Track NO: Date Submittowner Name Owner Addre Owner Addre Owner State. Owner Zip: County: Type of Worl Typ of Wrk O Proposed Us Prop Use Otl Latitude: Longitude: Drilling Date Chemical An Company Na Company Ad Company Co Company Sti Company Sti Company Sti Company Co Company Co Company Co Cota Source: Report Link:	es: ess: ess2: esth Descr: ee: h Descr: Started: Completed: alysis: me: ldress: ddress2: fy: ate: b:	598116 2022-02-26 CDS STXDC 20 125 Camelot Dr Fond du Lac WI 54935 Erath New Well Irrigation 32.258686 -98.187693 2022-02-18 No Moore's Water 1 3633 South Hw Mineral Wells TX 76067 Full SDR Datab https://www3.tw	Well Service y 281 ase; SDRDB We	ell Location (Map) ps/waterdatainteractive/GetReports.aspx?Num=5	98116&Tvne≕SDRJWell
Well Borehol	e Information				
Top Depth: Bottom Dept	h:	440.0			
Top Depth: Bottom Dept	h:	0 440			
Well Strata					

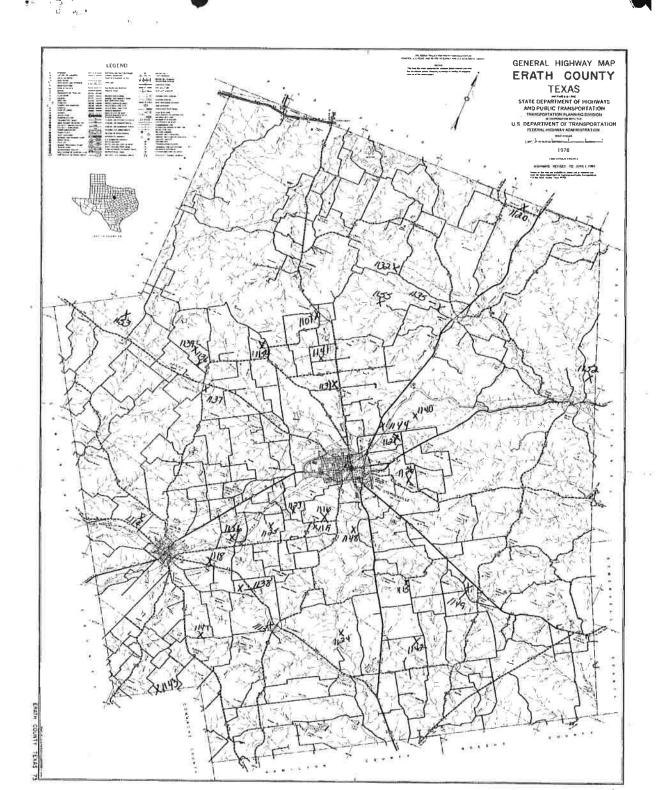
Water Type:

Fresh

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
25	1 of 1	NNE	0.27/	GORDON TAYLOR	TCEQ
			1,430.68	TX	WELL LOGS
Grid No:		31-47-8			
Date Drilled	<i>l</i> :	12/28/1985			
Owners Nat	me:	GORDON TAY	YLOR		
County:		ERATH			
Water Usag	e:	IRRIGATION			
Static Level	l:	330			
Depth Drille	ed:	430			
Latitude:		32.2671213			
Longtiude:		-98.1737924			

G.						mi N/SL 13mi W/E	1_		
Please use black ink. Send Original copy by certified mail to the Texas Water Commission P.O. Box 13087 Austin, Yexes 78711	V ATTENTION OWN	VATER W		REP		Ē	Tekes Water to P. O. Box 136 Austin, Texas	087	3oard
1) OWNER GORDON -	TAY OR	Address	95 (N.E.	S W.	Ch.	ARIOTTE Step Ichy direction from Step	phenuille phenuill	Tex (Zip	1680[
Driller must complete the legal descrip with distance and direction from two tion or survey lines, or he must locate well on an official Quarter- or Helf-Sc General Highway Map and attach the	and identify the		No t No o and dir	ection		Survey Name o intersecting section or si			
3) TYPE OF WORK (Check): 30 New Well Despening Greconditioning Plugging	4) PROPOSED USE (Check Domestic Dindustrial Mirrigation Direct Well	Monitor			lγ	5) DRILLING METHO	(ir Hammer 🗀		riven ored
6) WELL LOG: Data Drilling: Started 12-27 1985 Completed 12-38 1985	DIAMETER OF H Die. (in.) From (ft.) Surface		7) 8	OREI Oper Grev	n Hote el Packed	MPLETION: Straight Wall Other d give interval from .	_ U	nderreamed	2 ft.
0 - 4 Tops	Description and color of formaterial		8) C	ASIN	Steel	K PIPE, AND WELL SCA	EEN DATA:	e (fu)	Gage
20-40 CAlich	ahite Clay		-14:0 h	Or Used	Scree	Slotted, etc. en Mgt., if commercial	From	430	Casing Screen
240-240 Spale 240-260 Slue 260-290 Sand									
240-310 Red C	191								
400-430 SAND	")		101 :	SURF	ACE CONcifled Surf		5ekuice 319.44(c))	icks Used	
	©EUNE!	Y		VATE	A LEVEL	: 340ft, below land		0	
	TAY 2 9 1996		12) 6	Arte	etian flow	Type	Date	Depth	
(Use reverse side if necessary) 15) WATER QUALITY: Did you knowingly penetrate any strate which contained undesirable water? Yes 16. No If you, submit "REPORT OF UNDESIRABLE WATER"				13) TYPE PUMP: Turbine					
Type of water? Was a chemical analysis made? I here by certify that this we knowledge and belief. I und	Depth of strata Yes A No It was drilled by me (or understand that failure to complete the complete that the complete th	eto Itams 1 th	lon) and	ll resu	ach and al	il of the statements herein g(s) being roturned for co	t. drawdown af	thest of my	1.
ADDRESS P.O. Box 5.	58		ed U1			Tex.	70	101	
(Signed) (Signed)	Natur Well Driller)	(Sig	ned)			(State)	or TWC use or	nty 2] . t.(-	7_9
Please attach electric log, chemical ana		ormation, if a				W	ocated on map		1-0

53/



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
26	1 of 1	sw	0.31 /	DAVID HALFORD	TCEQ
			1,646.44	TX	WELL LOGS
Grid No:		31-55-2			
Date Drilled	! :	08/21/2001			
Owners Nai	me:	DAVID HALFO	ORD		
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	l:	290			
Depth Drille	ed:	425			
Latitude:		32.2447838			
Lonatiude:		-98.1853738			

				*1	-		25	
Attention Owner: Confidentiality Privilege Notice on teverse side of owner's copy.	Wale P.O. Box 12157 Aus	Ton free (800)80 dress: <u>water well</u> (Installer Pro 12)463-7880 03-9202 @license.st	gram 0 FAX (51		and and	form must be of filed with the de owner within 64 in completion of	paroneni 0 da ys
1) OWNER	i sa Anvisiús (Di	WELL RE		ATION	DATA".		rediction of the second	A-1.1
Name David Halford	1817 CR 177	27 LE TV - T	Ste	oheny	Accesses 1	State TX	Zip 764	01
2) WELTI-LOCATION	Physical Address	Control of the second s			alari izero	State	Zip	Villa e
Erath	3 mi NE of	FIGURE STREET		- No. of the Control	1, 1000		1 55 2	
3) Type of Work New Well Reconditioning Replacement Deepening	☐ Industrial ☐ Irriga ☐ Rig Supply	leck) Monitor. Lion Confection L'Public Supp	Public S ly well, were	opply 🔲 plais subm	De-watening C	Testwell No	5) X	nt
6) Drilling Date Started 8 / 21 /01 Completed 8 / 21 /01	Diameter of Dia.(in) From (f		Ø Air	Rotary C	Mud (check) Mud Rotary Cable Tool	Bored	4.6	
F4654(0);	i o o ide i po deleja	(1) STATES OF			mpletion			r Wall
0 25 cla	HEC	EIVED	L Cre	vel Packed	med 29 Grave give the interval	from 290	A to 425	Hack is
25 80 sha 80 190 lin	TOUR TOUR	MAIL HOOM	er l	New	Steel, Plastic	, etc.	Sening (A)	Gage
		1 3 2001	(in)	Or Used	Perf. Stoned Screen Mfg.,	if commercial	From To	Casing
220 290 lij		2 0 2001	4	N	Plasti	c	0 425	
	nd red	AMOUNT .	++		r			
413 429 (1)	ay red					***************************************		
				nenting		20 .	ENGL 5 TV	10
/Use myerre side of Well	Owner's copy, if necessary)		Ceme	nung man	280 A to	290 n	# of sacks used.	2
	d within 48 hours	K I E BASS TO	Distance	ing By e to septic t	nventio Company system field or of	her concentrati	ed comamination	NA:
From (f) To (f) From (f	1) To(A)	Sacks used			ompletion	ance		-
I4) Type Pump			O Speci OKSpeci	fied Surfac	e Slab Installed e Sleeve Installe		£	
	Submersible O Cylinder	7			milive Procedure	Used		
Depth to pump bowls, cylinder, jet etc., 15) Water Test Typetest O Pump O Bailer O Jette Yield: 20 gpm with 5 ft. draw	d 🛭 Estimated 1/4 hr				el)_fl. below [spm. [Date 8 21	0.1	
16) Water Quality Did you knowingly penetrate a strata white Type of water Type of water	th contain undestrable consti REPORT OF UNDESTRAE	wents.	12) Pa	ckers	Ту	pe .	Depth	
Was a chemical analysis made Yes	DENNET	WATER WELL	DRILLING	INC.		\		
Company or individual's Name (typ	oc or print) 7300 W	. HWY 377 TX-76476	يومات الله	-	Ĺ	ic. No.	Ti-	
Address	LICENSE				s	late	Zip	
contine M Bessell	11	/ /		enemo	rentice (12)	7		ne a
OF B CORP. WALKING	The source of the second	A STATE OF THE STA	TOWN THE TANK	o estate	HOCE IL USENO	DIPHER TO	Date	4.400

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB			
27	1 of 2	NW	0.31/	AMPI Cheese Plant	GWDB			
			1,659.38	ΤX	37755			
Well Rep Tr	ack No:							
State Well N		3147802						
Owner Name:		AMPI Cheese Plant						
Drilling Star	t Dt:							
Drilling Mon	nth:	8						
Drilling Day	:	1						
Drilling Year	r:	1988						
Well Depth:		450						
Well Usage:	•	Industrial						
Water Level	Status;							
Latitude:		32.2619450						
Longitude:		-98.1888890						
Data Source: Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations								
Well Info Re		https://www3.tv	/db.texas.gov/ap	ps/waterdatainteractive//GetReports.aspx?Num=3147802&Type=	=GWDB			
Document L	.ink:	https://www3.tv	/db.texas.gov/ap	pps/waterdatainteractive//GetScannedImage.aspx?Num=3147802	&Cnty=Erath			

Texas Water Development Board Well Schedule

State Well No. 31 47 802 Previous Well No. County ERATH 143 River Basin BRAZOS 12 Zone 3 Lat. 32 15 42 Long. 98 11 19 d of County County County ERATH 143
Owner's Well No, Survey, Survey
Owner AMPICHESEPLANT Driller DOWELL Driller
Address 1600 E. LAMAR RIVO. P.O. 60X 5040 ARLINGTON Tenant/Oper.
Date Drilled OBOI 1988 Depth 450 Depth Datum D Altitude 1338 Alt. Datum
Aquifer TWIN MOUNTAIN 218 TWMT Type Well Type
Well Construction Method MVD ROTARY H Material STEEL 5
Completion GRAVEL PACK Screen Material STEEL S Lift Date Pump Mfr. Type SUBM No. Stages Casing or Blank Pipe (C) Well Screen or Slotted Zone (S) Open Hole (O) Cemented from 0 to 400 Diam. Serting (feet)
Bowls Diamin. Settingft.Column Diamininininin.
Motor Mfr. Fuel or ELECT E Horsepower 7 5 8 4 00 450
Yield Flow GPM Pump GPM Meas.,Rept.,Est Date 3
Performance Test Date 1988 Length of Test Production 150 GPM
Static Level 360 ft. Pumping Level — ft. Drawdown — ft. Sp.Cap. — GPM/ft.
Quality (Remarks
Water Use Primary TNOUSTENIN Secondary Terriary :
Other Data Water Water Quality Logs Other Data
Date Meas
Water Date Levels Date
Date
14
13
Recorded By BR Date Record Collected D7 20 1974 (20 max) Reporting Agency O/
Remarks 1
2
3
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
, Aquifer 218 TWMT
well No. 31 - 47 - 802
93-0384 2979)
The state of the s

Water Quality Sampling Run

			7											_				
Sample No. 1005 Date: 9-30-94 By: 61R)	Bottle 7 Total SUB-	Samples		All filtered	unless other-	wise stipulated.	All on ice.	Starting pH 7.11	14,10 ml. of 0.02N to	50 ml. of Sample	Ending pH 4.50		mi. pH mi. pH mi. pH	0 7.11 1000 6.38	1.00 7.00 11.00 6.29	72.3 2.00 690 12.00 6.12	3.00 6.80 13.00 5.70	400 6.65 1400 4.83
Name: AMPI CHEESE Address: 1600 E. LAMAR BLVD. BOX 5040 ARLINGTON 76005	Bottle 3 Bottle 4 Bottle 5 Bottle 6	500 ml	Radioactivity Nitrate (TOC)Organics		2 ml 1 ml	HNO H SO	(Nitric) (Sulfuric)	Time in: 1020	Time out: 1/30	Weather 80° DRY	682 umhos/cm Outside Temp: 200	Sampling point: @ WELLHEAD	Time: 1025 1035 1041 1051 1055	DH: 6.76 6.93 6.97 7.00 7.00	Temp: 22.0 21.8 21.8 21.9	Eh: - 72.3	Cond. 683 682 682 682 682	INDUSTRIAL other notes: 8-1-88
31-47-802 EBATH 218 TWMT	Bottle 1 Bottle 2 Bo	1 liter	Anions Cations Radi		Preserve with: 2 ml 2	HNO	(Nitric) (h		UTM LSD Remark	(00010)	Specific Conductance (00094) 682 umhos/cn	7,00	-72,3 mv.	82244) O mg/l	9086) 282 mg/l	1452) meq/l D mg/l	00453) meq./ 344. 1 mg/l	(+)
SWN: County: Aquifer(s):					Pres				Water Level	Temperature (00010)	Specific Cand	pH (00400)	Eh (00090)	Pheno! ALK (82244)	Total ALK (39086)	Carbonate (00452)	Bicarbonate (00453)	Total Cations(+)

Total Hardness (46570) Dissolved Solids (70301)

Total Anions (-)

Texas Water Development Board Chemical Water Analysis Report

HM. MB .1995. 1005 HM = Heavy Trace and Alkaline-Earth Metals

	TWDB Use Only	
Work No.	11330	
IAC No	3120	

Send Reply To: Ground Water Unit Texas Water Development Board P.O. Box 13231 Austin, Toxas 78711

Attention: PHIL N	ORDSTROM	State Well Number: 31-47-802						
County: ERATH		Date & Time: 9-20-94 €1100						
Owner: AMPI CHI	EESE	Send Copy To Owner						
Address:		Sampled After Pumping:	Houre					
Date Drilled:	Depth:	Yield: GPM Q Measured	O Estimated					
Collection Point:	pH	Use: Temperature:	•					
By: BIRI	·	Specific Conductance:						

Requested Chamica	Analysis
Laboratory No.	

Date Received: SEP 23 1994

		mg/L			mg/L
Calcium	(00915)	77	Sodium	(00930)	40
Magnesium	(00925)	32	Potassium	(00935)	4.9
Lithium	(01130)	0,021	[Convert to µg/L for Data Entry]		
		μg/L			µg/L
Aluminum	(01106)	< 20	Manganese	(01056)	14,4
Antimony	(01095)	< 2.0	Mercury	(71890)	< 0.13
Arsenic	(01000)	< 2.0	Molybdenum	(01060)	<u> <50</u>
Berium	(01005)	1>7	Nickel	(01065)	<10
Beryllium	(01010)	< 210	Selenium	(01145)	24.0
Cadmium	(01025)	20.5	Silver	(01075)	< 10
Chromium	(01030)	<10	Strontlum	(01060)	1400
Cobalt	(01035)	410	Thallium	(01057)	216 62.0
Copper	(01040)	_ < 4.0	Vanadium	(01085)	<u> </u>
Iron	(01048)	434	Zinc	(01090)	11.8
Lead	(01049)	< 5.0			

Note: Crossout those elements not to be analyzed.

Texas Water Development Board Chemical Water Analysis Report

	ī	RAD- MB . 1	995.1005		
		RAD . Rad	lioactivity Sample	77	WD8 Un Only
Send Reply To: Ground Water Monitoring Unit Texas Water Development Board				_	11220
P.O. Box 13231 Austin, Texas 78711					
Artention: PHIL NORD	STROM		_ State Well Number:	31-47-8	<i>'02</i>
County: ERATH			_ Date & Time: 9-6	20-94@110	ю
Owner ANDI CHEE	Œ		Send Copy To C	Owner	
Address:			Sampled After Pumpin	F	Hours
Date Drilled:				GPM 🖸 Mesni	red D Estimated
Collection Point: By: BIRI			Use: Specific Conductance:		we°C
Requested Chemical Analysis			SEP 23 1994		
Laboratory No.:		Date Received:		Date Reported:	NOV211994
Alpha	(01503)	4.25	2.5	pCi/l	
Вега	(03503)		t/12	pCi/l	
	(09503)			pCi/l	
	(81366)			pCi/l	
	(11500)	V		_Р СіЛ	

94-0147-RJJ

98 H - 27 ₅₈

Texas Water Development Board **Chemical Water Analysis Report**

GWR. MB . 1995 . 1005 (Anions) TWDB Um Only Work No. 11220 Send Reply To: Ground Water Unit Texas Water Development Board P.O. Box 13231 Austin, Texas 78711 Attention: PHIL NOROSTROM State Well Number: 31-47-802 County: ERATH Date & Time: 9-20-94@ 1100 Owner: AMPI CHEESE Send Copy To Owner Address: BOX 5040 ARLINGTON 76005 Sampled After Pumping: Hours Date Drilled: 8-1-88 Depth: 450 @ Estimated Yield: 150 GPM @ Mensured Use: TUDUSTRIAL Temperature: 21.9 Collection Point: WELLHEAD pH 7.00 By: BIRI Specific Conductance: 682 **OCT 1**0 1994 Requested Chemical Analysis SEP 23 1994 Laboratory THO-Sample No. EB4 1738 Date Received 09/23/94 Date Reported 10/08/94 MEQ/L MG/L MEQ/L MG/L Silica (00955) 1.8 Sulfate (00946) 0.32 14 Chloride (00941) 1..64 5 8 Fluoride (00360) 0.02 0.43 P.Akalinity(00415) 0.00 F-Akalinity(00410) 5.54 277 Boron 0.23

* Convert mg/l Boron to µg/l for data entry.

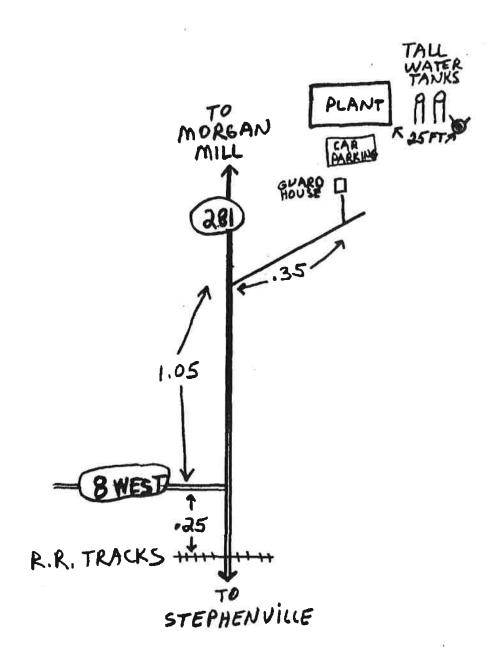
(71870)

Bromide

0.32

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operine Conductance:
                                                                                   SEP 30 199-
Requested C
                                                 SEP 23 1994
                                   Date Received:
                                                                     Date Reported:
                                                                    Date Reported 09/30/94
                                  Date Received 09/23/94
THD-Sample No. EB4 1751
                                                                        0.2 TKN as N mg/L
0.07 Ammonia as N mg/L
0.01 Nitrite as N mg/L
                                                        00623-
                                                        -80800
                                                        00613~
                                                                        0.01 Nitrate as N mg/L
                                                        00618-
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Ontherrough compile	Management Consideration of the last of th	paper service right	, \$60a	co-Hea		cosa NeThe	Manada	
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Whom Hotel	☐ Despening	CDomette Qin	destrict Chiantina	□ Public Suppl	196		Air Hartmer Gletted	
☐ Reconstitioning-	Ci Physicing	∏irrişaton ⊐Te	en West - Classocition	The-Western	0.	200	Cable Tool Quier _	
OF WELL LOCK			ER OF HOLE	7) BORES	HOLE CO	MPLETJON:		
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Fine To		Distriction and col	or of forestion	B CARING	L GLAN	H FIPE, AND WELL SCI	DEN GATA:	
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A - 250	5 %	July De	Some	2		Water VI Si	· · · · · · · · · · · · · · · · · · ·	
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		Danout	SAGURY			ATA (Run 207.4411)		G (2.3)
7 - 3	W()	Dange	Bunch		41	1847 H 14 (C)	fr. No. of sens Use	حجد
7	5A	7	-	7.51		C	Take shake second-100	-
74.7	<u> </u>	Danda	drawe	Σq	10	11. 1p 164	.lt. Ha. Il leaks Upo	
五 <u>五</u>	50	Danda	Share	Monhad	1	H = 1000	.lt. Ha. Il leaks Upo	
1 1 1 1 1 1 1	50	Landa	The second second	Monhay	mad Inc.	11. 1p 164	.lt. Ha. Il leaks Upo	- E
	50	Landa	The second second	Menhadi Camana 109 SURP		H=1000	.lt. Ha. Il leaks Upo	
	50	Landa Pad	The second second	Menhadi Camenn 109 SURP/	MCE COA	PLETION PROPERTY (Project LET)	-11. 10. 11 100 100 -164 	
	50	Banda	The second second	Cometes Cometes 100 SURP/	ACE ODA	PLETION PROPERTY SERVICE STATE	HUZAN	
	50	Pande	The second second	Cometes Cometes 100 SURP/	ACE ODA	PLETION PROPERTY (Project LET)	HUZAN	
		Landa	The second second	Cometes Cometes 100 SURP/	ACE COS	PLETION PLETION PLETION PLETION PROPERTY 1977.4422221 PROPERTY PROPERTY Used [Rule	HUZAN	A D
		Landa	The second second	Monhad Common 109 SURP/ 17 Spec 12 Fee	ACE COS	PLETION INC. 187	14. 120. 11 Tons United Decided Co-16.44	
		Lande	The second second	Monhaid Countries 109 SURP/ 17 Spec 12 Free 11) WATER	ACE COM	PLETION SPLETION SPLETIO	14. 120. 11 Tons United Decided Co-16.44	
		Lande	The second second	Monhaid Countries 109 SURP/ 17 Spec 12 Free 11) WATER	ACE COMMENT OF THE PROPERTY OF	PLETION SPLETION SPLETIO	A CALLED DATE OF THE PARTY OF T	77.10
		Sanda Pad (The second second	Menhagi Comenn 109 SURP/ (7 Spec UT Prom Appr 11) WATEL	ACE COMMENT OF THE PROPERTY OF	PLETION PLE	7.440748 Date	77.20
		Sande	The second second	Menhagi Comenn 109 SURP/ (7 Spec UT Prom Appr 11) WATEL	ACE COMMENT OF THE PROPERTY OF	PLETION PLE	A CALLED TO DELLE OF THE CALLED TO THE CALLE	
		Sande	The second second	Menhagi Comenn 109 SURP/ (7 Spec UT Prom Appr 11) WATEL	record Action of the Action of	PLETION PLE	A PARTIES DATE OF THE PARTIES OF THE	
		Lande	The second second	Menhagi Comenn Comenn Top Stuff (7 Spec LT reser App 11) WATEL Area 127 PACKE	ACE COS Mice Sport Mac Sport Mac Adopted Mac Adopted M	PLETION PLETION PLETION PLECTION PLECTION PLECTION PLECTION TYPE TYPE	ALLOND CONGRETARY CAUTEAR CAUTEAR CONTROL DATE DATE Date Date Date Date Date	77.00
			The second second	Monhael Countries 109 SURP/ T Spec T Free Adds 11) WATEL 127 PACKE 133 TYPE Twiss Twiss Total	ACE COS ACE COS Mine Septi III A Adopte III A Adopte III A III A III III A III A III A III A III A III A III A III A III A III A III A III A II A II A III A III A III A II A I	PLETION TYPE Type Type Type	Additional Dates Design	7.10
		Sanda Sanda	The second second	Monhael Countries 109 SURP/ T Spec T Free Adds 11) WATEL 127 PACKE 133 TYPE Twiss Twiss Total	ACE COS ACE COS Mine Septi III A Adopte III A Adopte III A III A III III A III A III A III A III A III A III A III A III A III A III A III A II A II A III A III A III A II A I	PLETION See State transport (Bule JE? Lisse) (True JE? 4-428)(1) fr below (gran Type	1. 12. 11 Tents United Company 1.44(FEAR) 1.44(FEAR)	TES TEST
IS WATER GUAL Old the office of	.TT)		Day	Monhad Common Common IGO SURP/ IT Spee IT Free IT FACKS I	ACE COMMON TO THE LESS OF LESS	PLETION TYPE Type Type Type	1. 12. 11 Tents United Company 1.44(FEAR) 1.44(FEAR)	-
Did the ording pa	LITY)	ado a necesary!	Day	Monhad Courses 100 SURP/ 1 Spec 1 Free 1 Add 127 PACKS 127 PACKS 127 PACKS 127 PACKS 128 PACKS 138 PACKS 148 PACKS 14	ACE COMMON TO THE LESS OF LESS	PLETION TYPE Type Type Type	1. 12. 11 Tents United Company 1.44(FEAR) 1.44(FEAR)	ft.
Did the offling particular of the control of the co	LITY) CITES OF LINE THEORY OF LINE	ado a necesary!	Day	Method Contents 109 SURP/ (17 Special Property Contents 110 PACK! 120 PACK! 120 PACK! 120 PACK! 140 WELL True	ACE COMMON PARTY OF THE PARTY O	LETTON Constitution of Bule 187 Constitution 287.4422211 produce fracedure Used (final Type Type July 17 Balance Type Type Type Type Type	A Control Cont	ft.
Did the ording posteroid of the party of the	LITY) CITES OF LINE THEORY OF LINE	make at necessary!	Day	Method Contents 109 SURP/ (17 Special Property Contents 110 PACK! 120 PACK! 120 PACK! 120 PACK! 140 WELL True	ACE COS STORY OF THE STORY OF T	LETTON Constitution of Bule 187 Constitution 287.4422211 produce fracedure Used (final Type Type July 17 Balance Type Type Type Type Type	A Control Cont	ft.
Did the offling particular of the control of the co	LITY) CITES OF LINE THEORY OF LINE	Complete of Variation of the Complete of the C	Dail	Monhael Countries 109 SURP) Special Figure Addition 110 MATEL 127 PACKE Turbs Turbs Opens of 148 WELL Type	ACE COS STORY OF THE STORY OF T	LETTON Constitution of Bule 187 Constitution 287.4422211 produce fracedure Used (final Type Type July 17 Balance Type Type Type Type Type	A Control Cont	ft.
Did the offling particular of the control of the co	LITY) CITES OF LINE THEORY OF LINE	Complete of Variation of the Complete of the C	Day	Monhad Courses 100 SURP/ 1 Spee 17 Spee	ACE COMMON	LETTON Constitution of Bule 187 Constitution 287.4422211 produce fracedure Used (final Type Type July 17 Balance Type Type Type Type Type	A Control Cont	ft.
Did too or William per electron and brain in 19 years and washed in Types of variously Wild a silventhiam is harving asset saladis to man	LITY) CITES OF LINE THEORY OF LINE	Complete of Variation of the Complete of the C	Dail	Monhael Countries 109 SURP) Special Figure Addition 110 MATEL 127 PACKE Turbs Turbs Opens of 148 WELL Type	ACE COMMON	Type July Tabona Type July Tabona Type Type	A Control Cont	ft.
Did too or William per electron and brain in 19 years and washed in Types of variously Wild a silventhiam is harving asset saladis to man	LITY) CITES OF LINE THEORY OF LINE	Complete of Variation of the Complete of the C	Dail	Monhad Courses 100 SURP/ 1 Spee 17 Spee	ACE COMMON	Type July Tabona Type July Tabona Type Type	A Control Cont	ft.
Did too or William per electron and brain in 19 years and washed in Types of variously Wild a silventhiam is harving asset saladis to man	LITY) CITES OF LINE THEORY OF LINE	Complete of Variation of the Complete of the C	Dail	Monhad Courses 100 SURP/ 1 Spee 17 Spee	ACE COMMON	Type July Tabona Type July Tabona Type Type	A Control Cont	ft.



31-47-802

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
27	2 of 2	NW	0.31 / 1,659.38	SCHREIBER FOODS TX	WUD
Primary Co: Contact Ti: Operating S PWSID: Source ID: Utility Name WTRSRC: Date Drilled Well Depth: Screen Top. Screen Top. Screen Bott Water Usag Gallons Per CCN: Latitude: Longitude: System Stat	itatus: : : : : om: e: Minute:	JUSTIN GROT OPERATOR OPERATIONA 0720026 G0720026A SCHREIBER F G0720026A 08/01/1988 450 400 450 ACTIVE - PER 80 N/A 32.26197222 -98.18736667 ACTIVE	L FOODS INC		

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
28	1 of 1	sw	0.36 / 1,883.88	WHITE HORSE CHRISTIAN ACADEMY	WUD
				TX	
Primary Co: Contact Ti: Operating S. PWSID: Source ID: Utility Name WTRSRC: Date Drilled: Well Depth: Screen Top: Screen Bott: Water Usage Gallons Per CCN: Latitude: Longitude: System Stat	tatus: : : om: e: Minute:	OWNER VANESSA B H OPERATIONA 0720063A G0720063A WHITE HORS G0720063A 08/21/2001 425 0 0 ACTIVE - PER 33 N/A 32.24802 -98.182586 ACTIVE	L E CHRISTIAN A	CADEMY	

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
29	1 of 2	SE	0.40 /	TROY GORDON #1	TCEQ
			2,115.18	TX	WELL LOGS
Grid No:		31-55-2U			
Date Drilled	l:	05/23/1978			
Owners Na	ne:	TROY GORDO	ON #1		
County:		ERATH			
Water Usag	e:	DOMESTIC			
Static Level	l:	300			
Depth Drille	ed:	380			
Latitude:		32.2471405			
Longtiude:		-98.1665066			





					Bus
Send original copy by certified mail to the Texas Water Development Board	State of	Texas		For TWDB Well No.	31-55-24
P. G. Box 13087 Auetin, Texas 78711	WATER WELL	REFORT		Received	
1) OWNER: Person having well drilled	ROY GORDON	Al Address Box	1470 =	Stephen	ville To
Landowner 52	Me	Address	or RFD)	yerey)	(Seath)
2) LOCATION OF WEAT R \ LI	1-31	15	10/20/20/	(CIEY)	(State)
Locate by sketch map showing landmar		(N.E., S.W., etc.)	direction from		ENVILLE
blvay number, etc.* SMATHS	PRINGS	Adjacent section	stion with distance ons or survey line	es and directions,	ns from
2 Roll	North	Labor Block		League	
Dell'	n_ 4	Abstract No		_ survey	
(Use reverse side if necesse	ry)	(NW t NE t SW t SI	Et) of Section		
3) TYPE OF WORK (Check): New Well Despening	4) PROPOSED USE (Check): Domeatin Indust:		5) TYPE OF WEL	(Check): Driven	Dug
Reconditioning Plugging	Irrigation Test (dell Other	Cable	Jettod	Bored
6) WELL LOG: Dismester of hole 6 in. D	epth drilled 380 fc.	Depth of completed we	380	ft. Date drill	00 5-23-7
	ll mensurements made from	/	ground lovel.		
(ft.) (ft.) form	tion and color of ation material	9) Casing; Type; Old	Steel	Plantic	Other
0-5 75		Cemented from		ft. to	520_ ft.
3- 90 Clay	2	Dimmeter (inches)	From (ft.)	To (ft,)	Gage
90-260 Shall	₹	410	O	380 -	Sch40
280-180 Dam					
360 - 300 de	AUEL	101 000000			
380 - 380 OR	HUEL	10) SCREEN: Type			
		Pertogated		Slotted	
		Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size
A		1/	340	380	3/6
(Use reverse side if no 7) COMPLETION (Check);	econsary)	11) WELL TESTS:			
Straight wall Gravel packed	Other	Was a pump test	made? Yes	NA If ye	s, by whom?
Under reamed Open to 1	•	Yield:	gpm with_	ft. drawdown	after hrs.
8) WATER LEVEL: Static level 300 ft. below land	d surface Date 5-23-77	Bailer test 20	Sepm with 1.5	ft.drawdown	afterhrs.
Artesian pressurelbs. per aq	ware inch Date	Artenian flow	g ptn		
Depth to pump bowls, cylinder, jet,	etc., No PUMP ft.	Temperature of v	ester		
below land surface.		12) WATER QUALITY: Was a chemical	analysis wade?	Yos	No
		Did any etreta	contain undemirabl	e water? Y	es No-
		Type of water?_		depth of strata	
RAME W. D. Dow	rtify that this well was drille 1 of the statements herein are	d by me (or under my a true to the best of m tor, Well Drillers Reg	y knowledge and be	11cf.	
ADDRESS P. O. BOX 5.	38 3	tenterin	110	En 11	Ja1
(Signed) W D Dowel) (City)	There !	1/1/2/11	Sellio	e Taca
	ilan	- www.	(Company Nam	(a)	47.0
Please attach electric log, chemical a		formation, if availab	10.		

TWDBE-WD-B

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
29	2 of 2	SE	0.40 / 2,115.18	TROY GORDON TX	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nai County: Water Usag Static Level Depth Drille Latitude: Longtiude:	ne: e: :	31-55-2U 05/25/1978 TROY GORDO ERATH DOMESTIC 300 380 32.2471405 -98.1665066	NC		

5					~
Send original copy by certified mail to the Texas Water Development Board F. C. Box 13087	State of			For TWDB Well No. Located	n map with a
Austin, Toxas 78711	WATER WELL	REPORT'		Received;	79054-
1) OWNER; Person having well drilled R	oy Goldon's	Address Bo	x470 =	Techeuv.	le Ter
Landovner 54 m.e		Address	ic or new	A (city)	76701
2)LOCATION OF WELL: (n - 1)			et or RVD)	(City)	(State)
County FRAIT		(N.E., S.W., etc	direction from	thep	Town
Locate by sketch map showing landmarks, hiway number, etc.*	roada, creeks,	Give legal lo	ocation with distant tions or survey line	ee and directions	s from
3 / 1001		Labor		League	
Stephenville	North	Abstract No.	-11	Survey	
(Use reverse side if necessary)	e l		SE%) of Section		
3) TYPE OF WORK (Check): New Well Desponing	4) PROPOSED USE (Check); Domestic Industr:	al Municipal	5) TYPE OF WEI	Check): Driven	Dug
Reconditioning Plugging	Irrigation Test We	•	Cable	Jetted	Boxed
6)WELL LOG: Diameter of hole 64 in. Dupt	h drilled 380 (c. 1	Oupth of completed s	380	ft: Dato drille	-5-25-28
	measurements made from		ground level.		200
From To Descriptio (ft.) (ft.)	n and color of on material	9) Casing: Type: Gld	No. Steel	RUC	Other
0-5 75		Cemented from	0	ft. to _32	
5-45 colo	ule	Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
125 120 Cla	1/2	470	0	3 80 8	ECATO
240-260	And				S.1146 - 2.112152 - 1-1584
260-340 C	ou .	10) SCREEN:			The second
240-380	Laviel	Perforated		Slotted	
		Diameter	Setting	3	Slot
***		(inches)	340	To (ft.) ろ気の	376
			0.10	280	
(Use reverse side if nece 7) COMPLETION (Check):	gnary)	11) WELL TESTS:			
Straight vall Gravel pack	Other	Was a pump ter	st made? Yes	Law If yes	s, by whom?
Under reamed Open Hole		**************************************		/	
8) WATER LEVEL: Static level 300 ft. below land a	urface Date 5-25-78		gpm with 2.5		
Artesian pressure1bs. per squar		Artesian flow			
Dapth to pump bowla, cylinder, jet, et	OND PUMP IL.	Temperature of	vater		
below land surface.		12) WATER QUALITY: Wen a chemical	i analysis madm?	Yes	No
		Did any strate	a contain undesirabl	le water? Ye	ав №-
1 1/1/11	6	Type of water		depth of atrata	
NAME W The and all o	fy that this well was drilled E the statements herein are to 2. Wat	rue to the best of	my knowledge and be	268	
ADDRESS P.O. Box 558	Step	repuille	, Tes	76401	
(Signed) WD Dowell	7 (769)	Dowe	11 well	Selvic	e Ino.
(Water Well Drille	17	.50	(Compa ny Nar	se)	
Please attach electric log, chemical anal	ysis, and other pertinent in	formation, if avails	ible.		
*Additional instructions on reverse side.					

TWOSE WO-8

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
30	1 of 3	ssw	0.40 / 2,115.30	Texas A&M University Tarleton Experiment	GWDB
				TX	
Well Rep Tr State Well N Owner Nam Drilling Star Drilling Mor Drilling Day	lo: e: 1 Dt: th:	3155201 Texas A&M Ui	niversity Tarleton	Experiment	
Drilling Yea Well Depth: Well Usage: Water Level	r:	1955 440 Irrigation			
Latitude: Longitude: Data Source Well Info Re Document L	e: eport:	https://www3.t	wdb.texas.gov/a _l	3) Reports; GIS shapefile of GWDB well locations pps/waterdatainteractive//GetReports.aspx?Num=3155201&Ty pps/waterdatainteractive//GetScannedImage.aspx?Num=3155	

TEIAS WATER CONNISSION			
MOLL SCHEDULE			
Agailer TRAUIS PEAK Field No. Demon's Well No.		10.31.50 Exati	201
Location: 1/h, 1/h Sec. Block Survey			
Ne edge of Stepheny	le		-+-+-+
Toward Taxas AND M. UNIVERSITY Tar Istory Address Steph	enulle	Jex.	
brilleri Clanes Ling Cont Address _ Tephen	ville		
Elevation of LSD is 1322 ft. above mal, determined by	Steph	enville Q	dedi
Drilladi ± 1955; Dug (Cable Tool) Rotary, Depth: Rept. 440 ft. Neas.	Commercial	CASING & BLAN	C PIPE
Completion: Open Hole Obreight Wall Junderreamed, Oravel Packed	Dian.	Тура	Jetting, ft.
Page Mer. Westerntump Co. Tro Torbine	(in,)		from to
No. Stages, Boyle Diamin., Setting re. NOWE IN	8"	steel	
Column Diam in., Length Tellpipe ft.			
Motor: Fuel & I & C. t. Make a padel U.S. Motoa S HP. 20 Tields Flow grap, Pump (2000), See (Rept.) Ret. 1-12-67			
Performance Test: Date Length of Test Hade by			10 4
Table of the same			
Static Levelft. Pumping Levelft. Drawdownft.			
Static Level ft. Pumping Level ft. Drawdown ft. Production gra Specific Capacity graft. Water Level: 264. 9rc. GED 10-27-1960abov for 6 8" 5 5 6 UTM rt. rapt. 6 22 1966 abov 109 pagning into company of the company	sa. Fore	- Ayroy ra	7. above surfa
Static Level ft. Pumping Level ft. Drawdown ft. Production gra Specific Capacity gra/ft. Water Level: 264. 9rt. Grap 10-27-1960 above ft. po of 8"555 UTM ft. rapt. 6/22 1966 above 109 apaning into 55 269. 94 rt. rapt. 1/-/3 1973 above 5-100 ft. po p p p p p p p p p p p p p p p p p p	ASING	which is	rt. above surfa
Static Leval ft. Pusping Leval ft. Drawdown ft. Production gra Specific Capacity gra/ft. Meter Leval: 264 9rt 100 10-27-1960 above for 5 8"55 5 107 above for 5 8"55 5 107 above for 5 8"55 5 107 above for 5 8	ASING	which is	rt. above surfa
Static Level ft. Pusping Level ft. Drawdown ft. Production grass Specific Capacity gra/ft. Meter Level: 264. 9rt. 1000 /0-27-1960 above ft. pc of 8"555 cmpt. LTM rept. 6/82 196 above 79 page 1 in 1 cmpt. 269. 94 rt. 1111 / 13 197 above 1-10 ft. pc of CSG. 288. 47 rt. 1211 / 13 197 above 19 pc of CSG. Use: Dam., Stock, Public Supply, Ind. 2007. Waterflooding Observations Not Haed.	ASING	which is which is a wh	rt. above surfa
Static Level ft. Pusping Level ft. Drawdown ft. Production grass Specific Capacity gra/ft. Meter Level: 264 9rt. 1700 /0-27-19 60 above ft. pc of 8"55 cmpt. At rept. 6/82 19 below 79 page 1 mg cmpt. 269 94 rt. 1801 / 1-73 197 below 79 po of 6.56 cmpt. 288 47 rt. 1972 2-22 197 below 79 p of 6.56 cmpt. Use: Dom., Stock, Public Supply, Ind. 267, Waterflooding Observations Not Hard. Quality (Remarks on taste, odor, oalor, etc.)	ASING ABA)	which is whi	ft. shore surface of the shore
Static Level ft. Pusping Level ft. Drawdown ft. Production gra Specific Capacity gpw/rt. Water Level: 264 9rt 1990 /0-27-1960 above ft. pc of 8"55 cm. above ft. pc of 8"	ASING ABA	which is which is which is which is a constant of the constant of the constant is a constant in the constant i	rt. above surfa
Static Level ft. Pusping Level ft. Drawdown ft. Production gra Specific Capacity gpw/t. Water Level: 26 ft. ft. ft. 10-27-19 6 Oaker ft.	ASING ASING ABA) Soren (in.)	which is whi	7. above surfer below surfer be
Static Level ft. Pusping Level ft. Drawdown ft. Production gras Specific Capacity gpm/ft. Water Level: 26 ft. ft. ft. ft. 10-27-19 6 Oaker ft.	ASING ASING ABI)	which is which is which is which is of the control	ft. shore surface of the shore surface of the shore surface of the shore surface of the shore of
Static Level ft. Pusping Level ft. Drawdown ft. Production gpm Specific Capacity gpm/ft. Water Level: 26 ft. 7ft. Trip. 10-27-19 60 above ft.	ASING ASING ABA) Soren (in.)	which is which is which is which is of the control	7. above surface of the bolton out of the bolton
Static Level ft. Pusping Level ft. Drawdown ft. Production gpm Specific Capacity gpm/ft. Water Level: 26 ft. 7ft. Trip. 10-27-19 60 above ft.	ASING ASING ABA) Soren (in.)	which is which is which is which is of the control	7. above surface of the bolton out of the bolton
Static Level ft. Pusping Level ft. Drawdown ft. Production gras Specific Capacity graft. Water Level: 26 ft. Trible 10-27-19 60 above ft. po ft. ft. paper ft. policy show ft. policy ft. paper ft. policy show ft. paper ft. policy show ft. paper ft. policy show ft. paper ft. paper ft. policy ft. paper ft. policy ft. policy ft. paper ft. policy ft. paper ft. policy ft. paper ft. policy ft. policy ft. policy ft. policy ft. paper ft. policy ft. polic	ASING ASING ABA) Soren (in.)	which is which is which is which is of the control	7. above surface of the bolton out of the bolton
Static Levalft. Pusping Levalft. Drawdownft. Productiongma	Soron (in.)	which is which is which is which is which is of the control of the	Set born early 2 to born surface 12 to born surface

Experiment

In Fo, on Elec Meter to spain
Meter No. - 8 675 200: Make-Duycan
Meter Rending on 6/22/46 Type-Hogan
Was 50 M. X10 = 50100

Experimenta

Form B-4 (62-1)

31-55-201

Mongail Mon

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Note: Joese of the Joese of the

KEY PUNCHED

1

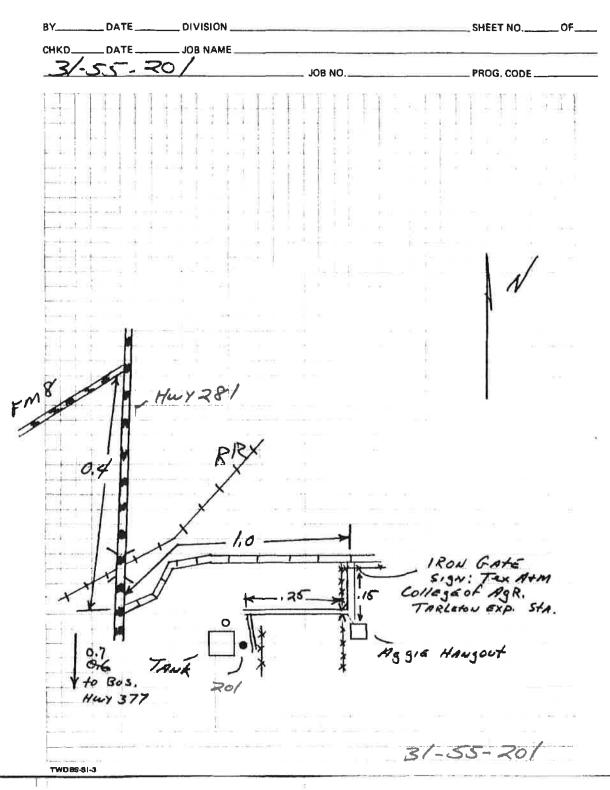
7

recording 20. Medded by:	So a service of a	Apport of Pater Analysis Locations Country Counce: Depth:	TP-31-55-201 Accorded:
oral Colide For Golids* Hardness actia	Tone per acre-foot 581 Ppm 16.60 Grains per Tallon	Chemical Analysis Cations: 93- Magnasi Cass. 68	85 1 190 2
; ;		KEA BANCHED	A Section (Control of the Control of

т	E	X	A	s	v	A	7	E	R	D	Ε	۷	E	ı	٥	P	Н	E	H	T	8	0	٨	R	D	
	NELL SCHEDULE																									

agustos Twin Mountains	Field No.		11.31 53 ERAH		
1. Locetion:1/4,1/4 6ec	, Block Survey				
2. Owner: TARL & ton Expe	RIMENT Stareson Rt #2	, step	BENVILLE		
Drillari	Address:			h-t-	+-+
3. Elevation of	is ZRR ft. above mal, determined	7. TOX	0	ـنــا	
	Du Cable Tool, Rotary		CASTNO & BLAN	K PIPE	
5. Depths Rept. 470 It. Kess.		Committed	Fromft	. to Settle	n.
6. Completion: Open Hole, traight Wall Under		(in.)	.,,,,,	from	to
7. Pumps Mfgr.					260
No. Stegon , Bowle Diem in	., Settingft.	1.8.	StEEL	0	440
Column Dism,in., Length 7a	ilpipeft.	1	1	1	1.10
	6 Model HP.	1_6_			440
9. 11elds Flow gree, Pump /20 gree	Dept., 201. 7-12-67				
10. Performance Tests Date Length	of Test Hade by		1		
Static Levelft. Pumping Level	_ft. Drawdownft.				
Productionmps Specific	CapacityEDm/ft.				
11. Vater Level: rt. rept.	19 sbove		which is	nt. ab	ove surface,
fe, rept.	19 above			rt. ab	OTE SUFFACE.
rt. rept.	below 19 shove		vhich is	ft, eb	l ow
rept.	19 above			tr. be	
12. User: Dom., Stock, Public Supply, Ind.,	below Irr., Waterflooding, Observation Not Used,			, pa	Low Sollson.
13. Quality: (Remarks on tasts, odor, color, et	55.02.55.55				
Temp, "F, Date sampled for analysis					
Temp 'F, Date sampled for analysis_		Dorm	WELL SOR	PSK	91
		Diam.	Туре	Settin	8, ft.
Temp 'P, Date sampled for unalysis		(in.)		from	to
14. Other data available se circled: (Driller's	roll megrowers straining, preserve roll				
No other Acada and Acada a	5148	8	Siesel	400	440
Permetion Supples, Pumping Test,		8	SCREEN	4 00 360	430
15. Record by Jake Dettey	Data 4- 20 1976	8	SCREEN	4 00 360	430
15. Record by John Derton Source of Date TWDB SCHED	Data 4- 20 1976	8	SCREEN	360 360	430
15. Record by JOAN DETTON Source of Bate TWD8 SCHOOL 16. Reserve: RECORDER LAST	Data 4- 20 1976	8	SCREEN	4-00 35-0	430
15. Record by: JOAN DOTTON Source of Date TWDS SCHOOL 16. Remarks: RECORDER LVS 6-11-74	Date 4-20 1976 Stalled by J. D+G. D			400 360	430
15. Record by JOAN DOTTON Source of Base TWDS SCNED 16. Remarker: RECORDER LNS 6-11-74 18 KEY NEEDED CO	path 4-20 1976 Hellen by J.D+G.D	968.3	492	4 00 36 0	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stelled by J. D. + G. D ALL: SHELDY NEWMON PANI YOLKSON 96	968-3	492	400 360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	path 4-20 1976 Hellen by J.D+G.D	968-3	492	360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968 3 8-654 68-807	492 2	360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968 3 8-654 68-807	492 2	360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968-3 1-654 68-807	492 2 - Top	360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968-3 1-654 68-807	492 2	360	430
15. Record by JOAN DOTTON Source of Best TWDS SCNED 16. Renarks: RECORDER LNS 6-11-74 18 Key NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968-3 1-654 68-807	492 2 - Top	360	430
15. Record by: JOHN DETTON Source of Bate TWDS SCHOOL 16. Remarks: RECORDER LNS 6-11-74 LPKEY NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stalby Newmon PAUL YORKSON 26. JOOY WORTHINGTON?	968-3 1-654 68-807	492 2 - Top	360	430
15. Record by: JOHN DETTON Source of Bate TWDS SCHOOL 16. Remarks: RECORDER LNS 6-11-74 LPKEY NEEDED C	Date 4- 20 1976 Stalled by J. D+G. D ALL: Stelby Newmon PAUL YORKSON 26 JOOY WORTHINGTON?	968-3 1-654 68-800 MP	492 2 - Top	360 of 6	

TEXAS WATER DEVELOPMENT BO



County:

ERATH

Recorder:

TARLETON EXPERSHENT STATION

Well Number:

31-55-201

Date Installed:

6-11-74

Shelter Number: 580-6566

Shelter Type:

99B

Recorder Number: 580- 6307 S.N. 49063-68

Recorder Type:

Clock Number:

672903

Type of Clock Drive: 5 PAING

Remarks:

Mr. Newman ourested by to she the and was supplied one by moil 7-14-78

31-55-201

0 10 Same 50 60 10 Leone Thate 195 205 10 3 47 Shocs growy : 2 2 2 3 45 Water Sand . 1 3 6 Water James 18 390 410 7:0000 yellow ting 117 Water In A & on out 410 70000013

Typewrite (Black ribbon) or Print Plainty
(soft pencil or black link)
Do not use ball point pen

Texas State Department of Health Lebernteries
100 Wast 40th Greek
Austin, Texas 7876

TEXAS A FM

CHEMICAL WATER ANALYSIS REPORT

County

Send report to:

Ground Water Data and Protection Division
Texas Water Development Board
P.O. Box 13087

Austin, Texas 78711

Data Collected

By

Location

NE Edge of STEPHENVILLE

Source (type of well)

Owner TRACADA Esparament State

Producing intervals 350 430 Water level 267, 644 In(11-13-73)

TWDBE-GW ONLY
rogram No.
roj. No

Location NE Edge of STEPHENY	7/LLE
Source (type of well) (NOWA) Owner TA	ALARON Experiment Station
Date Drilled # 1955 Depth # 430 ft. WBF 7	ious Rol
Producing intervals 350 - 430 Water level 267, 6	<i>u</i> ./
Sampled after purpoing by Vield	172,6 077
Point of collection _ End descharge ains	Appearance Clear Claurbid Coolored Clother
Uso IRR - OBS. Remarks abandoned	10 1972
(FOR LABORATORY USE ONLY)	
	L ANALYSIS
Laboratory No Data Received	Date Reported
MG/L ME/L	MG/L ME/L
Silica	Carbonete
	1 118
Calcium 9 3 4 65	Bicerbonate 239 3 91
Magnesium 18 / 48	Sulfate
	100 2.08
Sodium	Chloride 1/0 3.10
Tatel 9.09	Fluoride
Potessium · er to er to er	Nitrate
D Manganese - 98Na 32.56	pH · · · · · · · Total 9 09
Boron	y Dissolved Solids (sum in MG/L)
Total Iron	Phenolphthalsin Alkalinity as C aCO3
(other) MG/L	Total Alkalinity as C aCO3
Specific Canductence (micromhos/cm ³)	Total Hardness as C aCO3 · · · · ·
Diluted Conductance (micromhos/cm ³)	2/ Nitrogen Cycle Ammonia - N · · · · · · · · · · · · · · · · · ·
Sucrem Competation (International Chile	S/IIIIOUIII V
¹□ " items will be analyzed if checked.	Nitrite - N · · · · · · · · · · · · · · ·
** The bicarbonete reported in this ensiyals is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the	Nitrate - N
carbonate figure is used in the computation of this sum,	
3/ Nitrogen cycle requires separate sample. 3/ Total Iron requires separate sample.	Organic Nitrogen
TW/DDE W/D.1 (Rev. 1.25.72)	Analyst Checked By

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
30	2 of 3	ssw	0.40 /	Tarleton College Exp. Station GW	VDB
			2,115.30	TX	
Well Rep Tra	ack No:				
State Well N		3155210			
Owner Name	e:	Tarleton Colleg	e Exp. Station		
Drilling Star	t Dt:	`	,		
Drilling Mon		5			
Drilling Day		18			
Drilling Year		1973			
Well Depth:		420			
Well Usage:		Irrigation			
Water Level					
Latitude:		32.2413890			
Longitude:		-98.1841670			
Data Source	9.	Groundwater D	atabase (GWDE	Reports; GIS shapefile of GWDB well locations	
Well Info Re				pps/waterdatainteractive//GetReports.aspx?Num=3155210&Type=GWDB	
Document L				pps/waterdatainteractive//GetScannedImage.aspx?Num=3155210&Cnty=E	rath

Site

WELL SCHEDULE				
Aquarer_ HOSSTON_ Plead No.	Phase V	11 No. 3] S	c = 5/1	2
Owner's Well No.		EBATH		
		6-536-5_4_		
1. Locations 1/4, 1/6 Sec. , Block Surrey				
2. Owner: TARLETON College Exp. Station Address: Pit	Ha Shepher	nrille.		
Tenent: Address:				
Drillori WOLF DRILLING CO Address &	300 16 - Stept	enville	1-+-	+-+
3. Elevation oflad	determined by	PO		لنبا
4. Drilled: 5-18 1973; Dug, Cable Tool, Robert, 5. Depth: Rept. 420 rt. Mess. rt.	Camerte	CASING & BLAN	K PIPE 30	
	Diem.	Тура	Settin	g, ft.
6. Completion: Open Hole (Streight Vall) Underressed, Oravel Packed 7. Pump: Mggr. Western Type Tyre University	(in,)_	 	from	to
No. Stages, Bowle Dism,in., Setting the		steel	اه	20
	16	7		3_0_
8. Notor: Puel Electric Make & Model U.S. MOTORS	HP. 40 1034	"	+6	420
9. Yields Flow gom, Pump 250 gpm, Heas, RepD, Ent. MS, NE	WARN	7		
10. Performance Tests Date 5:19:73 Length of Test day Hade by Wel	f			
Static Levelft. Pumping Levelft. Drawdownft.				
Production _] = 5 gpm Specific Copacity gpm/ft.				
11. Water Levels 265 A. (1/13 19 73 thank Ground Le	wel	which is	n. sb	ove surfece.
			rt. ab	
n, rapt. 19 above		which is	re, ab	ove surface.
n rept, 19 above below		which is		
12. Unc: Dom., Stock, Public Sapply, Ind., (Irr.) Waterflooding, Observation				
13. Quality: (Remarks on tests, odor, color, etc.)				
Temp "F, Date sampled for analysis Leboratory		WELL SCH	EVA	~
Temp 'F, Date sampled for analysisLaboratory	Ber	Type	Settin	-
"femp "Y, Date sampled for analysis Leboratory	(in.)	1366	from	to
 Other data available as circled: [briller's Log Radioactivity Log, Electric Log Fornation Samples, Pumping Test, 	1074	slotted	360	420
15. Record by: P. L. NORDSTROM Date 11-13			~	1 5 5
Source of Date D-Log , Obs., MR SHELBY NE	wman			
16. Remarks: moter 50-741-721 openduscha	nga	1		
butane put pump				
Pumps Continuously for 3 mes in sumo	ner			
(30) W				
	<u> </u>	, 		
1111	(a)	t		
	1777	11,120'		
	(///	930		
4 Marger to		× 1 1		
10.7	14 (And	<u> </u>		
TWDBE-WD-1 (Sketch)				
STEPHENVILLE			31-55	5-210

	Sand origins, per caretified on. 2 Texas Owner Stone P. O. See 1706 Austin, Texas 77	touré		ite of Teas		Local Rece Form	TYDE year only SE
	1) Olderitz	Tarleton	College Eve-	Station	D+ # :	de line	
	Leaders (Ballon)	WI MILE TELLET	(Hame)		(Mired or I	(Ciri) (\$100)
	Lendone		(Marie)		idress (Smart or 1	irto (Cay	(bes)
	1) LOCATION IN IN.	Brath Labor_		League	4	_ Abstract No	
14.67460 基础	What he come a		- Block	No		_ Bucvey	
*		orth arrection from	Stephenville	iles			₩ОЯТН 1
		Skat	ch map of wall location or survey lines, and to	with distances for	rom udjacemt sect , and creeks.	l on	
10-93	3) TUTE OF HOME (C	Back): Desponing (4) FROMOSED DESE Demastic C	(Check): Industrial B	micipal []	5) TIPE OF JAN.	LL (Check): Driven Dug
	Records tiesting	O Phogram C		Tant Well []		1	Jetted D Bored O
	6) VILL LOS: Diameter of hot	. 12‡ ta. Depti	dg1 l ted 420	ft. Depth of co	pleted well	421 ft. Date :	drilled 5/18/73
		A11 =	manuscreents made from	<u>0</u>	ahove ground leve	al.	
	from Te (fr.) (fr.)	Dageription o formation		From To (ft.)		Description and cold formation materia	
4	4 6	Top Soil Rook		321 41		lay Clay.Rock Le	Vars
	6 17	White Sand		412 42			J
	22 26	Tellow Smid					
	26 165 165 268	Shale and Roc Rock Shale, Bl			_		
	268 310	Sand			(Des revers	e alou if necessary)	
	7) COMPTATION (Char Straight wall C Onder reamed (Orayal packed [] Other	Top 30' cemented	10	lava L Ez. 30	low land surface De e. par square lack	
	9) CASTING: Type: old -	tou A Steal D Plastic	C Other C	10) SCHEIMI			
	Commuted from		te,	Perforat	ad E3	Slotted 🗆	
	Diameter (inches)	Section To (ft.	Gage	Dismater (toches)	From (ft.)	tting To (ft.)	Slot eize
	16 0	0	30 /4 "				
	20-3/4	0 42	0 ./88				
	(1) WELL TESTA:	L		12) FUND DAT	L		
	New o himb cour	made: 🗆 Tex 🕒 No	If yes by whom?	1	uter's Ham		
4 4 A		ft.				N.P.	
	Artesien flow		drawdown afterbre		er watt	g pa	C 49h D
	Temperature of w					, jot, mec.,	ft.
	Nes a chunical ac Did any atrata a: Type of water:	main undestrable water	D No C Ten D No th of strate	below ta	ad nurface.		
A MACHINESON III		I hereby carri	ly char this well was dri	illad by ma (or u	mder my supervisi	lon) and that	
1			the statements barein :		tilers Registrati	7.70	
	AME C.W.T	IOLI				472000000000000000000000000000000000000	
	deress Paga	Sax 16	Staphanyi	110		Texas	
	ddrass P.O. 3	Wall Wall		<u>,,) </u>		RILLING CO.	(State)

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
30	3 of 3	ssw	0.40 / 2,115.30	TILL STONE	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nai County: Water Usag Static Level Depth Drille Latitude: Longtiude:	ne: e: :	31-55-2 09/28/1979 TILL STONE ERATH DOMESTIC 220 275 32.241644 -98.1839174			

NA.	•	3	
Sand original copy by certified mail to the Toxas Department of Wuter Resources P. O. Box 13087 Austin, Texas 7871	WATER	e of Texas WELL REPORT entiality Privilege Notice on Reverse	For TDWR use only Well No. 37 5 5 2 2 Located on map Y 5 5 Side Remivel: 2 6 5 3
1) OWNER (N) (N) COUNTY (N)	fore Address	(Street or RED)	Stephengyle Ty 764
Driller must complete the legal descrip with distance and direction from two is tion or survey lines, or he must locate well on an official Quarter or Half-Sca General Highway Map and attach the n	tion to the right ntersecting sec- mid identity the in Texas County hap to this form. Sec at	description: on No,Block No, ract NoSurvey Name ince and direction from two Intersecting's	31-S5-14
3) TYPE OF WORK (Chack): Deeponing Deeponing Plugging	4) PROPOSED USE (Check). Utomestic Industrial Publ		DD (Check): r Hammer
6) WELL LOG: Date drilled 9-28 - 79	DIAMETER OF HOLE Dia, (in.) From (it.) To (it. Surface 0.34 0 27	Li Open Hole Ci Stra	sight Wall Underreamed
From To (ft.)	Description and color of formation material	8) CASING, BLANK PIPE, AND V	Setting (ft.) Gage
5-25 25-125- 125-225	Calache Blue Clay Shale	in ar Perf., Slotted, etc. Screen Mgf., if cam	mercial From To Screen
245 -275	Red Clay		
		CEN	/ENTING DATA
		Compared from Method used Louked Commented by Lowell	9_11.10_23.5_11.
		9) WATER LEVEL: Static level	ow land surface Data 9-28-79
		10) PACKERS: Type	e Dapth
		11) TYPE PUMP: ① Turbins ① Jet □ Other	[#Submersible Cylinder
13) WATER QUALITY: Did you knowingly penetrate any water? [] Yes QLAG If yes, submit "REPORT OF UNI		Depth to pump bowls, cylinder, 12) WELL TESTS: Ci Type Test: Description	Mailer □ Jetted □ Estimated
Type of water? Was a chemical analysis made? NAME MCRR A.	each and all of the statements herein	Vield: 79 gpm with illed by me (or under my supervision) and are true to the hest of my knowledge and i	that belief, MAR 1 5 1982
ADDRESS POBOLS	38 37	ephenville 7	180 76401 1801 500 1201 8
(Signed) (Wate	ysis, and other pertinent information,		Morry Namel
TDWR-0392 (Hev. 1-12-79)	DEPARTMENT OF V	VATER RESOURCES COPY	

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
31	1 of 1	NNE	0.40 / 2,117.54	James Young 2703 CR 455 Stephenville TX 76401	SDRW WELLS
Track NO:		425567			
Date Submit		2016-07-06			
Owner Name		James Young			
Owner Addre		2703 CR 455			
Owner Addr	ess2:	01 1 31			
Owner City:		Stephenville			
Owner State	:	TX 76401			
Owner Zip: County:		Erath			
Type of Wor	b ·	Replacement			
Typ of Wrk C		Replacement			
Proposed Us		Domestic			
Prop Use Of		Bornoggo			
Latitude:		32.267222			
Longitude:		-98.171389			
Drilling Date	Started:	2016-07-05			
	Completed:	2016-07 - 06			
Chemical Ar	•	No			
Company Na		Dowell Well Ser	rvice		
Company Ac		P.O. Box 402			
CompanyAd		06			
Company Ci		Stephenville			
Company St Company Zi		TX 76401			
Company Co		70401			
Data Source		Full SDR Datah	ase: SDRDR We	ell Location (Map)	
Report Link:		https://www3.tw	db.texas.gov/ap	ps/waterdatainteractive/GetReports.aspx?l	Num=425567&Tyne=SDR-Well
•					Tall Teest at yes est them
Well Boreho	le Information				
Top Depth: Bottom Dept	th:	455.0			
Top Depth:		0			
Bottom Dept	th:	455			
Well Levels					
Measuremer	it:	350			
Measuremer	nt Date:	2016-07-06			
Well Strata					
Water Type:					

Order No: 24081500488

Second Trinity

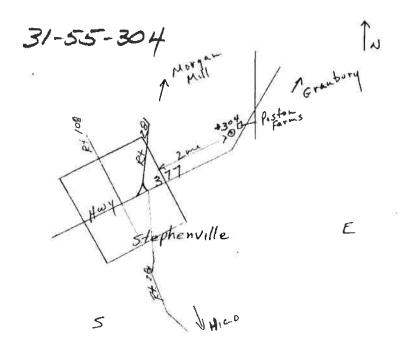
Map Key	Number of Records	Direction	Distance (mi/ft)	Site	В
32	1 of 2	ESE	0.42 / 2,211,76	Poston Farms GWI	OB
			2,211.70	TX	
Well Rep Tr	ack No:				
State Well N	Vo:	3155304			
Owner Nam	e:	Poston Farms			
Drilling Star	rt Dt:				
Drilling Mor	nth:				
Drilling Day	:				
Drilling Yea	r:	1958			
Well Depth:		360			
Well Usage:	•	Irrigation			
Water Level	Status:				
Latitude:		32.2491670			
Longitude:		-98.1638890			
Data Source	9;	Groundwater Da	atabase (GWDE	Reports; GIS shapefile of GWDB well locations	
Well Info Re	eport:	https://www3.tw	db.texas.gov/ap	ps/waterdatainteractive//GetReports.aspx?Num=3155304&Type=GWDB	
Document L	.ink:	https://www3.tw	db.texas.gov/ap	pps/waterdatainteractive//GetScannedImage.aspx?Num=3155304&Cnty=Era	ath

Order No: 24081500488

Order No: 24081500488

TEXAS WATER CONNISS	IOM		
WELL SCHEDULE			
Aquieur_Hensel Piala No.		-	,
	State Well	*° 3/_3	5-304
Chmer's Well No.	County	Exat	5-304 Co
			Y
1. Location:1/4,1/4 Sec, Block Survey			.
	,,-,-		
2. mesers to ston tarms accross Ste	EVERATION	\$,	
Tenanti Jack Barry Mary Address Rte	2. Vistas	aulle.	-
Orillori F. A. TEKY 4 DIVING SO REGIONO STE	Phon All	22	-1-1-1-1
3. Klavetion of	does by STEP	שטועת שמ	great
4. Drilled: 1958; Dug Cable Tool Rotary,	[7 Clause & H	
5. Depthi Rept. 360 rt. Neas. rt.	Committed P	Тура	t. to ft.
6. Completinn: Open Hole Otroight Vell Underressed, Gravel Pecked	(in.)		from to
- Control of the Cont	6"	O.D	SURF TO
No. Stages, Bowle Diemin., Settingrt.			12017
6. Notor Fuel e le Ch. Marin Model U.S. Marin HP. 2	ا ا ب		
9. field: Flow grm, Pump 75 Bgy, Mess Rept., Ret. 10. Performance Test: Dete Length of Test Nade by			
Static Levelft. Pumping Levelft, Dreadownft.			
Production gram Specific Capacity graph'ft.			
	meas,	which is	ft. shove surface.
rept. 10 shore	*	et dates	D0104
below below			2 ONT DA
mato balov			
ft, rept. 19 above			
ft. rept. 19 above			
ft. rept. 19 above			
12. Use: Dom. Stock Public Supply, Ind. (Irr. Materflooding, Observation, Not to Quality: (Research on tasts, odor, color, etc.)			
12. Use: Dom. Stock Public Supply, Ind. (Irr. Materflooding, Observation, Not to Quality: (Research on tasts, odor, color, etc.)	Used,	which is	ft. sore surface.
12. Use: Dom. Stock Public Supply, Ind. (Ire.) Waterflooding, Observation, Not to 13. Quality (Remarks on tasts, odor, color, sto.) See Fig. Temp. 72, "7, Date sempled for malysis 10-14-6 Saborstory 75 HD	Ueed,	which is	
12. Use: Dom. Stock Public Supply, Ind. (Ire. Waterflooding, Observation, Not to 13. Quality (Reserve on tests, odor, color, sto.) 5.C.C.F. C.S. Tamp. 72. '7, Date sampled for smalysis 10-14-6 Subpretory 75 HD. Tomp. '7, Date sampled for smalysis Leborstory	Sorean Diam. (in.)	which is want of Openings	ft. sore surface.
12. Use: Dom. Stock Public Supply, Ind. [1rc] Waterflooding, Observation, Not to 13. Quality: (Remarks on tasts, odor, calor, sto.) 13. Quality: (Remarks on tasts, odor, calor, sto.) 13. Quality: (Remarks on tasts, odor, calor, sto.) 14. Stock First Temp. [7], Date sempled for smalysis [0-14-6] Laborstory 15. Laborstory 16. Other data available as circled: Driller's Log, Radiosctivity Log, Electric Log, Formation Samples, Pumping Test.	Soroen Diam. (in.)	which is	ft. sore surface.
12. Use: Dom. Stock Public Supply, Ind. [Irr. Waterflooding, Observation, Not to 13. Quality: (Reserve on tests, odor, calor, sto.) 13. Quality: (Reserve on tests, odor, calor, sto.) 14. Carrier of the sempled for smalysis O-14-6 Saborstory 75 ff O O 15. Carrier of the sempled for smalysis Laborstory Laborstory Laborstory Laborstory O 14. Other data evaluable as circled: Driller's Log, Radioactivity Log, Electric Log, Forestion Samples, Pumping Tant, O O O O O O O O O	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Use: Dom. Stock Public Supply, Ind. [Irr.] Waterflooding, Observation, Not to 13. Quality (Remarks on tasts, odor, color, sto.) 5.C.C. F. C.S. Temp. 72, '7, Date sempled for malysis 10-14-5 Laborstory 75 ff D. Temp. '7, Date sempled for enalysis Laborstory Temp. '7, Date sempled for malysis Laborstory 14. Other data sysilable as circled: Driller's Log, Radiosctivity Log, Electric Log, Forwation Samples, Dumping Test, 15. Record by: Date 10-14-19; Source of Data	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom. Stock Public Supply, Ind. (Irr. Waterflooding, Observation, Not to 13. Quality (Remarks on tasts, odor, calor, sto.) 13. Quality (Remarks on tasts, odor, calor, sto.) 14. Charactery To the sampled for analysis (0-14-6 Laboratory To the Department of the Company of the Compan	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom. Stock Public Supply, Ind. [1st] below 13. Quality: (Remarks on tests, odor, color, etc.) 13. Quality: (Remarks on tests, odor, color, etc.) 14. Other data evaluable as circled: Driller's Log, Radiosctivity Log, Electric Log, Forestion Samples, Dumping Test, 15. Record by: 16. Benarks: Wall has A.S. Mater. 17. Besser Lag. Phase 18. Benarks: Wall has A.S. Mater. 19. above ton, Observation, Not to Serve	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom. Stock Public Supply, Ind. (Irr.) below 13. Quality: (Remarks on tests, odor, calor, etc.) 13. Quality: (Remarks on tests, odor, calor, etc.) See Files Temp. 72, 77, Data sampled for smalysis / 0-14-6 Laboratory TSMD Temp. 77, Data sampled for smalysis Laboratory 14. Other data swallable as circled: Driller's Log, Radiosctivity Log, Electric Log, Forestion Samples, Dumping Test, 15. Record by: D. II. Charles Color Date / 0-14-19; Sources of Data 16. Benarks: Wall has A.S. Maten. 25 HP, 3 Phase Open Disable. System Lea well down themsels houses.	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom Stock Public Supply, Ind. [1st] Materflooding, Observation, Not to 13. Gnality (Remarks on tasts, odor, color, etc.) SCEFICS Temp. 72, Date sampled for snalysis / O-14-6 Laborstory TSMD Temp. 77, Date sampled for snalysis Leborstory Tamp. 77, Date sampled for snalysis Leborstory 14. Other data swallable as circled: Drillar's Log, Radioscivity Log, Electric Log, Forwation Samples, Pumping Tent, 15. Record by: Date 10 Color SCI. Date 10 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom. Stock Public Supply, Ind. (Irr.) below 13. Quality: (Remarks on tests, odor, calor, etc.) 13. Quality: (Remarks on tests, odor, calor, etc.) See Files Temp. 72, 77, Data sampled for smalysis / 0-14-6 Laboratory TSMD Temp. 77, Data sampled for smalysis Laboratory 14. Other data swallable as circled: Driller's Log, Radiosctivity Log, Electric Log, Forestion Samples, Dumping Test, 15. Record by: D. II. Charles Color Date / 0-14-19; Sources of Data 16. Benarks: Wall has A.S. Maten. 25 HP, 3 Phase Open Disable. System Lea well down themsels houses.	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom Stock Public Supply, Ind. [1st] Materflooding, Observation, Not to 13. Gnality (Remarks on tasts, odor, color, etc.) SCEFICS Temp. 72, Date sampled for snalysis / O-14-6 Laborstory TSMD Temp. 77, Date sampled for snalysis Leborstory Tamp. 77, Date sampled for snalysis Leborstory 14. Other data swallable as circled: Drillar's Log, Radioscivity Log, Electric Log, Forwation Samples, Pumping Tent, 15. Record by: Date 10 Color SCI. Date 10 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom Stock Public Supply, Ind. [1st] Materflooding, Observation, Not to 13. Gnality (Remarks on tasts, odor, color, etc.) SCEFICS Temp. 72, Date sampled for snalysis / O-14-6 Laborstory TSMD Temp. 77, Date sampled for snalysis Leborstory Tamp. 77, Date sampled for snalysis Leborstory 14. Other data swallable as circled: Drillar's Log, Radioscivity Log, Electric Log, Forwation Samples, Pumping Tent, 15. Record by: Date 10 Color SCI. Date 10 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
12. Have Dom Stock Public Supply, Ind. [1st] Materflooding, Observation, Not to 13. Gnality (Remarks on tasts, odor, color, etc.) SCEFICS Temp. 72, Date sampled for snalysis / O-14-6 Laborstory TSMD Temp. 77, Date sampled for snalysis Leborstory Tamp. 77, Date sampled for snalysis Leborstory 14. Other data swallable as circled: Drillar's Log, Radioscivity Log, Electric Log, Forwation Samples, Pumping Tent, 15. Record by: Date 10 Color SCI. Date 10 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -19 Science of Date 10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Soroen Diam. (in.)	which is want of Openings	ft. sore surface.
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CHROCAL WATER ANALYSIS REPORT

Typewrite (Black ribbon) or Print Plainly (soft pencil or black ink) Bo not use ball point pen	Taxes State Department of Realth Leboratories 1100 West 19th Street Austin 5, Taxes
Send report to: Ground Water Division Texas Water Commission	
Texas Water Commission P. O. Ber 2711 Capital Station Austin 11, Texas	Date Collected 0-/4-65
Location	2mi a of Stroken 11-
Source (type of well) drilled (turbing) Owner	Poston Farms
Dete Drilled /958 Depth 360	(rept.) se was Trinity & Palisy
Producing intervals Water	riomi unable to meas, n.
Sampled after pumping hrs. Yield	OPM Meas. Temperature 72
Point of collection tappedatpipe to Storage Tops	arano clear
Uno IVV. Romarka Please sendanalysi:	s copy to Mr. Jack Berry Mgr. Rt. 2, Stephenville Tox
FOR LABORATORY DRE CHE.T	7 7 -3
CHECCAL ANALYSIS	
Laboratory No. 70617M Date Received OCT 1 8	1985 Date Reported 10 - 7 2 -65
PPM EPM	Date Reported 10 - 7 2 - 65 FFM EFM
Silion	Date Reported 10-72-65 PPN EPN Carbonete 0
PPM EPM Silion 14 Calcium 78 3.70	Date Reported 10-72-65 PPN EFN Carbonate 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
### EP# EP# #### Silion	Date Reported 10-72-65 PFN EFN Carbonate 0 0 Bioarbonate 368 6.04 Sulfate 28 0.58
### FPM EFM Silica	Date Reported 10 - 7 2 - 65
## EPM ### ### ### ### ### ### ### ### ### #	Date Reported 10 - 7 2 - 6 5
8ilioa	PFN
Silica 14 Calcium 78 Magnesium 32 Sodium 17 Cotal 7.27	Date Reported 10 - 7 2 - 65
Silica 14 Calcina 78 Magnesium 32 Sodium 17 Potassium Diamyumess	Date Reported 10 - 7 2 - 65
### EPM ### Silion	Date Reported 10 - 72 - 65
PPN EPN	PFN EFN Carbonate Bicarbonate 3 (8 6.04 Sulfate Chluride 7.55 Plucride Fitrate 7.47 Dissolved Solids (sum) Phenolphthalsin Alkalinity as GaCO3
Silica Calcina 78 Magnesina 32 Sodina Total Potassina DNamguness Barca Total Iron SAR (other)	Date Reported 10 - 72 - 65
Silica 14	PTM IFM Carbonate Biographicate 3 (8 6.04 Sulfate Chloride 7.55 Fluoride Fitrate 7.47 Dissolved Solids (sum) Total Alkalinity as Caco, O Total Alkalinity as Caco, O
PFM EFM	PTM IFM Carbonate Biographicate 3 (8 6.04 Sulfate Chloride 7.55 Fluoride Fitrate 7.47 Dissolved Solids (sum) Total Alkalinity as Caco, O Total Alkalinity as Caco, O
Silica 14 Calcina 78 Magnesium 32 Sodina 17 Potassium Discrease 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PFN EFN Carbonate 0 0 0 Bioarbonate 3 6 8 6.04 Sulfate 28 0.58 Chluride 20 0.55 Fluoride 4 4 7.17 pR 7.44 Dissolved Solids (sum) 560 Phemolphthalein Alkalinity as CaCO 0 7 302 Total Rardness as CaCO 6.04 302

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
32	2 of 2	ESE	0.42/	TOBY STONE	TCEQ
			2,211.76	TX	WELL LOGS
Grid No:		31-55-2U			
Date Drilled	l:	05/23/1978			
Owners Na	me:	TOBY STONE			
County:		ERATH			
Water Usag	re:	DOMESTIC			
Static Leve	l:	300			
Depth Drille	ed:	360			
Latitude:		32.249167			
Longtiude:		-98.163889			

				3	
send original copy by				For TWD	Dun briy
ertified mail to the exas Water Davelopment Board . O. Box 13087	State of	Texas		Well Ho	31-55-14
ustin Texas 78711	WATER WELL	REPORT		Receive	on map (20-0)
1) OWNER: Person having well drilled.	oby Stone	Address 1. 0	.Box 115	5 Ste	obenville
Landowner Sym	rel .	Address	or RFD)	(City)/	(State)
County RATE	3	- Company		N	
Locate by sketch map showing landmark		(N.E., S.W., etc.,		Mohr	enin DOa
hivay number, etc.*	e, roads, creeks,	Give legal local	ation with distant ons or survey lin	ces and directions.	ons from
8		Labor		Longue	
A WELL	Morth	Block		Survey	
Stephenville	_ 1	Abstract No			
(Use reverse side if necessar;	y)	(NWE NEE SWE SI	Et) of Section		
3) TYPE OF WORK (Check): New Wolling Despaning	4) PROPOSED USE (Check): Domestic Industr	ial Municipal	5) TYPE OF MEI	LL (Chrock):	
Reconditioning Plugging	Irrigation Test W	* 1	Cable	Driven Jetted	Dug Bored
6)WELL LOG:				Jected	/
Diameter of hole 67 in. Der	oth drilled 360 ft.	Depth of completed well	11_360	_ft. Date drill	100/23/78
	l measurements made from		ground level.		
From To Descript: (ft.) (ft.) Corner	ion and color of				
LOFMAN	tion material	9) Casing: Type: Old	Stee	PMC	Other
0-5 7	5	Type: Old Cemented from	Stee:	WATCHERE	Other
	S steer tal	Type: Old Cemented from Diameter		ft. to	Other
0-5 7	S steer tal	Type: Old	Settin) From (ft.)	ft. to	
0-5 7 5-40 Colar	S steel material	Type: Old Cemented from Diameter	Setting	ft. ta	
0-5 7 5-40 Color 40-120 Clo	S steel material	Type: Old Cemented from Diameter	Settin) From (ft.)	ft. to	
0-5 5-40 Color 40-120 Clo 120-260 2h	S steel material	Type: Old Cemented from Diameter	Settin) From (ft.)	ft. to	
0-5 5-40 40-120 120-260 260-280 260-280	S steel material	Type: Old Cemented from Diameter (inches) #	Settin) From (ft.)	ft. to	
0-5 5-40 40-120 120-260 260-280 280-320 00-5 00	S steel material	Type: Old Comented from Diameter (inches) # J) 10) SCREEN: Type Perforated	Setting From (ft.)	ft. to To (ft.) To Storted	sch to
0-5 5-40 40-120 120-260 260-280 280-320 00-5 00	S steel material	Type: Old Cemented from Diameter (inches) #	Settin) From (ft.)	ft. to To (ft.) To Storted	Stot
0-5 5-40 40-120 120-260 260-280 280-320 00-5 00	S steel material	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter	Setting From (ft.)	ft, to To (ft.) 3.60	sch to
0-5 5-40 40-120 120-260 260-280 280-320 00-5 00	S steel material	Type: Old Comented from Diameter (inches) H. J. D. 10) SCREEN: Type Perforated Diameter (inches)	Setting From (ft.)	ft, to To (ft.) 3.60	Stot
0-5 7 5-40 Color 1/0-1/20 Clo 1/20-260 Jh 1/0-280 Jm 1/0-380 Jm	she	Type: Old Comented from Diameter (inches) # J) 10) SCREEN: Type Perforated Diameter (inches)	Setting From (ft.)	ft, to To (ft.) 3.60	Stot
0-5 5-40 Color 40-120 Clo 120-260 Jh 260-280 Jo 280-320 Clor 320-360 DA	she	Type: Old Comented from Diameter (inches) III) SCREEN: Type Perforated Diameter (inches) III) WELL TESTS:	Setting From (ft.) Setting From (ft.)	Slotted Ta (ft.) 360	Slot size
5-40 Color 140-120 Clo 140-120 Clo 140-260 alm 140-380 and 280-380 and 320-360 bn (Use reverse side if nec () COMPLETION (Check): Straight wall Gravel packed	she	Type: Old Comented from Diameter (inches) # J) 10) SCREEN: Type Perforated Diameter (inches)	Setting From (ft.) Setting From (ft.)	Slotted Ta (ft.) 360	Stot
S-4/B Color 1/0-1/20 Clor 1/20-260 Ab 260-280 Ac 280-320 Cor 320-360 Ac (Use reverse side if necessary) COMPLETION (Check): Straight well Gravel packed Under reassed Open Hole	she	Type: Old Comented from Diameter (Inches) 10) SCREEN: Type Perforated Diameter (Inches) 11) WELL TESTS: Was a pump tast	Setting From (ft.) Setting From (ft.)	Stotted To (ft.) 360 Stotted To (ft.)	Slot Size
S-4/B Color 1/0-1/20 Clor 1/20-260 Ab 260-280 Ac 280-320 Cor 320-360 Ac (Use reverse side if necessary) COMPLETION (Check): Straight well Gravel packed Under reassed Open Hole	coasary)	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter (inches) 11) WELL TESTS: Was a pump tast Yield;	Setting From (ft.) Setting From (ft.) Setting From (ft.) 3.20	Slotted To (ft.) 360 Slotted To (ft.) 366	Slot Size Sk
CO-S S-40 Colar HO-120 Cla 120-260 sh 260-280 sam 280-320 Col 520-360 Sh Completion (Check): Straight will Gravel packed Under reamed Open Hole Open Hole	oceancy) Other Surface Date 5/23/78	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter (inches) 11) WELL TESTS: Was a pump tast Yield;	Setting From (ft.)	Slotted To (ft.) 360 Slotted To (ft.) 366	Slot Size Sk
(Use reverse side if nec (Use reverse side if nec (Occupation (Check): Straight vall Under reamed Open Hole (Static level 300 ft. below land	oceancy) Other Surface Date 3/23/78 are inch Bate	Type: Old Comented from Diameter (Inches) 10) SCREEN: Type Perforated Diameter (Inches) 11) WELL TESTS: Was a pump tast Yield: Bailer test 2 C	Setting From (ft.)	Slotted To (ft.) 360 Slotted To (ft.) 366	Slot Size Sk
(Use reverse side if necessary pressure land Artesian pressure land Cland Artesian pressure land Cland Artesian pressure land cland Artesian pressure land Cland Cland Cland Cland Artesian pressure land Cland Cl	other Surface Date 3/23/78 are Inch Bate	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter (inches) 11 WELL TESTS: Was a pump test Yield: Bailer test 2 Artesian flow Temperature of water 12) WATER QUALITY:	Setting From (ft.) Setting From (ft.) Setting From (ft.) Setting From (ft.)	Slotted To (ft.) To (ft.) To (ft.) To (ft.) To (ft.)	Slot Size Sk
(Use reverse side if need) (Use reverse side if need) (Use reverse side if need) (Open Hole (Open	other Surface Date 3/23/78 are Inch Bate	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter (inches) 11 WELL TESTS: Was a pump test Yield: Bailer test 2 Artesian flow Temperature of was a chemical of	Setting From (ft.)	Slotted Ta (ft.) 360 Ta (ft.) 3C3	Slot sine Sk
Color	other Surface Date 3/23/78 are Inch Bate	Type: Old Comented from Diameter (inches) 10) SCREEN: Type Perforated Diameter (inches) 11 WELL TESTS: Was a pump test Yield: Bailer test 2 Artesian flow Temperature of was a chemical of	Setting From (ft.) Setting From (ft.)	Slotted Ta (ft.) 360 Ta (ft.) 3C3	Slot size Sk

*Additional instructions on reverse side.

BOW BOOK

Please attach electric log, chemical analysis, and other pertinent information, if available.

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
33	1 of 1	N	0.43 / 2,293.38	F. E. SUTTON	TCEQ
			2,293.30	TX	WELL LOGS
Grid No:		31-47-8			
Date Drilled		05/21/1981			
Owners Na	ne:	F. E. SUTTON ERATH			
County: Water Usag	۵'	DOMESTIC			
Static Level		320			
Depth Drille		400			
Latitude:		32.2723779			
Longtiude:		-98.1781393			

								(1)		
Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711			State VATER WE L: Confident	ELL	REP	ORT ge Notice on Revers	e Side	For TDWR use of Well No. 3/ S Located on map Received:	12 - S	zv.
1) OWNER F.E.Sutton				-					- 13	
2) LOCATION OF WELL	amo)	\	miles in	(Str	OP TO THE	Box 364 RED) direction I	MI	politica Te	Nas (Z)	264_
- 19			☐ Lugal desc					9		-
Driller must complete the legal descrip with distance and direction from two i tion or survey lines, or he must locate well on an official Quarter or Half-Sea General Highway Map and attach the n	ntersecting second identify to	hn 423 hty m.	Section Abstract Distance	No No and d	rectio	Block NoSurvey Non	ne g section or su	irvey lines		
31 TYPE OF WORK (Check):			X Sen attach	od ma	p. m	apon 31				
New Well Deepening	X Domesi		eck): ial 🗇 Public Si ell 🔲 Other	الإلاات		5) DRILLING METH	\ir Hammer	□ Driven □ Bo		
6) WELL LOG:		METER OF H		[7)	BORE	Air Rotary (1)		☐ Jetted ☐ Oth	16 r	
	Dia. (in.)	From (ft.) Surface	To (ft.)		☐ Ope	r Hole ☐ S	treight Wall		erreamed	
Date drilled 5-21-81	6 1	0	400		If Gr	avel Packed give interv	al from _	L100 _ft. to	3-10) /z.
From To	Description a	nd color of fo material	rmation	8)	CASIN	G, BLANK PIPE, AND	WELL SCRI	EEN DATA:		
Liebes OC-O	0			Dia.	New	Steef, Plastic, etc.		Setting ((t.)	Gage
30-10 Starte				tin.i	Or Used	Perf., Slotted, etc Screen Mgf., if co	mmercial	From	То	Screen
20-20 HXM	Some	0		41d	N	Steel, slo	tted	1,00	2/01	56
200-300 Dec	Grate	0 4 9	Lame				-	700	340	
JO- 370 a DE - OSE	1.20.000	200	n. m. graffert							1
Clothing ave-08E	Dya	0.								
Kinsa Opp - OK	& ODE	Ulma								
				-				1		
				1			MENTING D	ATA		
				C	emont	rd from Poured		. to		ft.
-						ed by Dowell				
				9)	WATE	R LEVEL:	(Company	or (ndividual)		
						lave 380_ft be		ace Date		
D E	o e o o			10)	PACK	ERS: Tyr	M)	Depth		77.5
10)	6 G 1 /						, ,	Берит		
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	UG 25 I	182								
	EPT. OF			111	TVDE	PUMP:				
WATE	RESOU	RCES		9	Turbi	ne 🖾 Jet	Cosubmers	ible 🗆 Cy	lindor	
(Use reversa sh	do if necessary	a)		1) Other epth to	pump bowls, cylinder	. (at. etc.			
13) WATER QUALITY:							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Did you knowingly panetrate any : water? Yes No	strate which c	ontained unde	astrable	12)	WELL	TESTS:	1			
If yes, submit "REPORT OF UND Type of water?	Depth of s				Yield	Pump Pump	18 Bullet	☐ Jetted ☐	hrs	
	I hereby cert	ify that this w	vell was drilled	by mo	(or un	der my supervision) an t of my knowledge and	d that			
NAME W.D.Dowell			Water Wali (268			
(Type or	Print)							100 ma 2017 20 ma		
(Signed)	purto	1/	Stephe	()			Cexas (State)	76401		
(Water	Well Drilley					Well Servi	ce, In	Ç.		
Please attach electric log, chemical analy	sis, and other	pertinent inf	ormation, if ava	oilabie.						
DWR-0392 (Rev. 1-12-79)										



Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update.

Federal

Wells from NWIS:

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This select NWIS Wells dataset contains specific Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Applicable NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

Government Publication Date: Mar 11, 2024

State

Well Log Reports from Plotted Water Wells:

TCEQ WELL LOGS

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been manually verified.

Government Publication Date: Jul 26, 2022

SDRW WELLS

Locations of wells from the Submitted Drillers Report (SDR) Database with select proposed usage: Domestic, Fracking Supply, Industrial, Irrigation, Other, Public Supply, Rig Supply, Stock, Unknown. SDR is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS), a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well.

Government Publication Date: Mar 11, 2024

GWDB

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality.

Government Publication Date: Apr 12, 2024

Fort Bend Subsidence District Water Wells:

WW FORT BEND

Order No: 24081500488

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes. Government Publication Date: Jan 22, 2024

High Plains Water Wells:

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area.

Government Publication Date: Apr 14, 2024

Harris Galveston Subsidence District Water Wells:

WW HARRIS GAL

Order No: 24081500488

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

Government Publication Date: Jan 22, 2024

Water Utility Database: WUD

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Government Publication Date: Oct 1, 2020

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

<u>Direction:</u> The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Order No: 24081500488

T.F: GROUNDWATER TECHNICAL REPORT

T.F.1 Purpose

The purpose of this section is to provide information on the geologic features and groundwater resources at the Vanden Berge Farms facility located near Stephenville, Texas.

T.F.2 Geologic Atlas Map

Figure T.F.1, Geologic Atlas Map, shows the geologic formations located at the property.

T.F.3 Geomorphologic/Geologic Features

The Windthorst-Duffau and Maloterre-Purves-Dugout soils in this area of Erath County are immediately underlain by the Paluxy, Glen Rose, and Walnut Formations as shown in Figure T.F.1, Geologic Atlas Map. The Paluxy Formation consists of sandstone interbedded with claystone and siltstone, up to 100 feet thick, thinning southward. The Glen Rose Formation of Cretaceous age consists of alternating limestone and claystone with some sandstone, up to 250 feet thick in the southeastern area of the formation. (Geologic Atlas, 1976).

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. Underlying the Paluxy, the Glen Rose Formation forms a gulfward-thickening wedge of marine carbonates consisting primarily of limestone. Paluxy bedrock outcrops along the northeast portion of this site. Limiting application rates of wastewater and manure will protect this feature form adverse impacts.

The Walnut Formation comprises the beds of clay and nonchalky limestones at the base of the Fredericksburg division. They consist of alternations of calcareous laminated clays, weathering yellow on oxidation, semicrystalline limestone flags, and shell agglomerate, all of which grade upward without break into the more chalky beds of the Edwards limestone. In places they weather into rich black soils and make extensive agricultural belts.

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 (Ashworth, 1995).

T.F.4 Aquifer Information

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.

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 (Ashworth and Hopkins, 1995).

The aquifer is underlain and confined by low-permeability rocks that range in age from Precambrian to Jurassic. Where the aquifer does not crop out, it is confined above by the Walnut Formation in most of the area.

Recharge to the Trinity aquifer is generally as precipitation that falls on aquifer outcrop areas and as seepage from streams and ponds where the head gradient is downward. In the Hill County, water might flow laterally into the Trinity aquifer from the adjacent Edwards-Trinity aquifer. The aquifer discharges by evapotranspiration, spring discharge, diffuse lateral or upward leakage into shallow aquifers, and withdrawals from wells.

T.F.5 References

Ashworth and Hopkins, November 1995. Aquifers of Texas. Report 345, Texas Water Development Board.

Bureau of Economic Geology, The University of Texas at Austin, Geologic Atlas of Texas – Abilene Sheet, 1976.



Map Generated 8/13/2024

<u>Legend</u>:

Kpa — Cretaceous Paluxy Formation Kgr — Cretaceous Glen Rose Formation Kwa — Cretaceous Walnut Formation

Source: United States Geological Survey.

Available at: http://txpub.usgs.gov.

Vanden Berge Farms Stephenville, TX **Erath County**

Geologic Atlas Map Figure T.F.1 Page 14

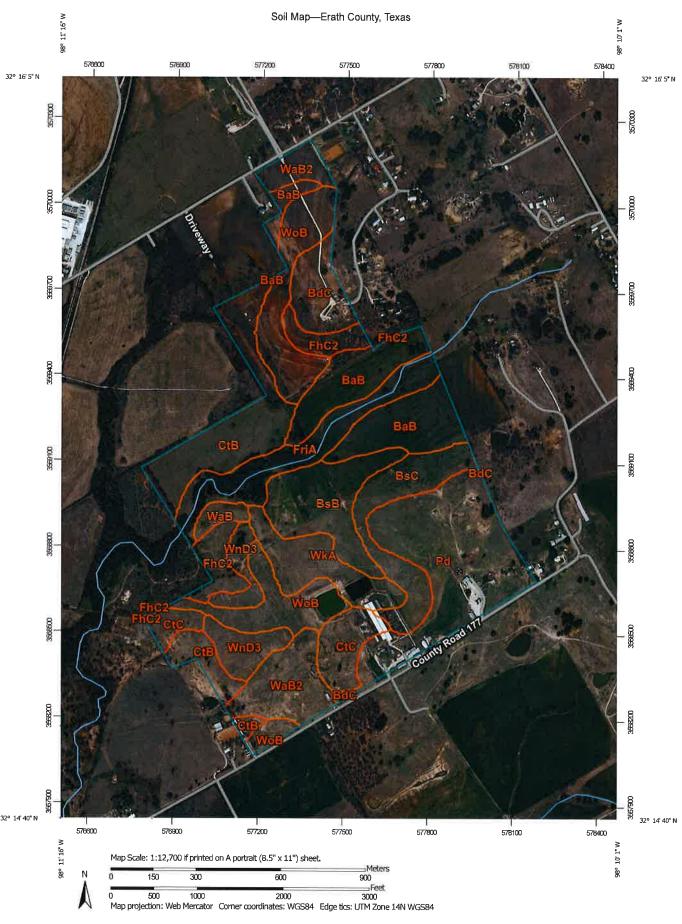


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T.G: SOILS INFORMATION

T.G.1 Soil Features

Soil mapping units included in this section for the production area and waste disposal areas were taken from the electronic NRCS soil survey for Erath County.



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 ø

Borrow Pit

Clay Spot 美

Closed Depression

0 X

Gravel Pit

Gravelly Spot

Landfill Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot

Slide or Slip

Severely Eroded Spot



Sinkhole



Sodic Spot

Spoil Area



Stony Spot



Wet Spot Other



Special Line Features

Very Stony Spot

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 1:20,000.

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: Erath County, Texas Survey Area Data: Version 20, Sep 5, 2023

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

Date(s) aerial images were photographed: Jan 26, 2021—Jan 29, 2021

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
ВаВ	Blanket clay loam, 1 to 3 percent slopes	40.3	11.3%
BdC	Bolar-Denton complex 3 to 5 percent slopes	13.7	3.9%
BsB	Bastsil fine sandy loam, 1 to 3 percent slopes	25.5	7.2%
BsC	Bastsil fine sandy loam, 3 to 5 percent slopes	23.1	6.5%
CtB	Clairette-Hassee very fine sandy loams, 1 to 3 percent slopes	39.1	11.0%
CtC	Clairette loam, 3 to 5 percent slopes	15.6	4.4%
FhC2	Fairy-Hico complex, 1 to 5 percent slopes, moderately eroded	14.0	3.9%
FriA	Frio silty clay, 0 to 1 percent slopes, occasionally flooded	25.9	7.3%
Pd	Purves-Dugout-Maloterre complex, 1 to 20 percent slopes	53.9	15.1%
WaB	Hassee fine sandy loam, 1 to 3 percent slopes	3.5	1.0%
WaB2	Hassee fine sandy loam, 1 to 3 percent slopes, eroded	24.8	7.0%
WkA	Hassee fine sandy loam, thick surface, 0 to 2 percent slopes	18.9	5.3%
WnD3	Windthorst and Duffau sandy clay loams, 1 to 8 percent slopes, severely eroded	15.1	4.2%
WoB	Windthorst very fine sandy loam, 1 to 5 percent slopes	43.0	12.1%
Totals for Area of Interest		356.5	100.0%

Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The content of organic matter in a soil can be maintained by returning crop residue to the soil.

Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and Ksat. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (http://soils.usda.gov)

Report—Physical Soil Properties

					Physi	ical Soil Properti	es-Erath Cou	nty, Texas						
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensibility	Organic matter	1	Erosio facto		Wind erodibility	Wind erodibility
					density conductivity		capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	ln/ln	Pct	Pct					
BaB—Blanket clay loam, 1 to 3 percent slopes								3,						
Blanket	0-14	20-25- 45	28-44- 53	27-31- 35	1.30-1.50	4.00-14.00	0.15-0.20	3.4-5.3	1.0-3.0	.32	.32	5	6	48
	14-40	5-24- 40	13-38- 60	35-38- 50	1.35-1.55	0.42-4.00	0.12-0.20	4.8-8.6	0.5-2.0	.32	.32			
	40-56	5-28- 40	10-39-68	27-33- 50	1.35-1.55	1.40-14.00	0.12-0.20	2.6-7.9	0.3-1.0	.37	.37			
	56-80	5-35-40	10-37-66	27-28- 50	1.35-1.55	1.40-14.00	0.12-0.20	2.6-7.9	0.1-0.8	.43	.43			
BdC—Bolar- Denton complex 3 to 5 percent slopes														
Bolar	0-16	20-34- 45	17-36- 53	27-30- 40	1.21-1.38	4.00-14.00	0.17-0.21	2.4-6.8	1.0-4.0	.20	.20	2	4L	86
	16-32	15-34- 45	15-36- 50	20-30- 40	1.34-1.46	4.00-14.00	0.16-0.20	0.4-5.9	0.5-2.0	.28	.28			
	32-36	15-34- 45	15-36- 50	20-30- 40	1.38-1.56	4.00-14.00	0.12-0.16	0.3-5.5	0.3-1.0	.17	.32			
	36-80	-	:===	-	E-C	0.42-14.00	_	=:	-					
Denton	0-10	3- 6- 15	40-48- 57	40-46- 57	1.16-1.34	0.42-1.40	0.11-0.15	5.0-11.1	1.0-4.0	.17	.17	2	4	86
	10-28	5- 7- 25	28-48- 60	35-45- 55	1.28-1.41	0.42-1.40	0.09-0.14	3.7-10.3	1.0-4.0	.20	.20			
	28-32	5- 7- 25	28-48- 60	35-45- 55	1.31-1.41	0.42-1.40	0.09-0.13	2.7-9.4	0.5-2.0	.32	.32			
	32-38	5- 7- 30	40-63-83	12-30-40	1.36-1.45	4.00-14.00	0.08-0.12	0.0-5.2	0.1-1.0	.43	.43			St. 1
	38-80	=	= 1	-	-	0.42-14.00	_	5						

					Physi	ical Soil Properti	es-Erath Cou	nty, Texas						
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensibility	Organic matter		Erosio facto		Wind erodibility	Wind erodibility
					density	conductivity	conductivity capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	In/In	Pct	Pct					
BsB—Bastsil fine sandy loam, 1 to 3 percent slopes														
Bastsil, fine sandy loam	0-8	55-73- 80	5-19-39	5- 8- 20	1.49-1.54	14.00-42.00	0.12-0.16	0.5-2.9	0.5-1.5	.28	.28	5	3	86
	8-15	55-73- 80	5-19-39	5- 8- 20	1.55-1.71	14.00-42.00	0.12-0.16	0.4-2.4	0.4-1.3	.28	.28			
	15-34	40-50- 55	10-22- 37	20-28- 35	1.48-1.58	4.00-14.00	0.12-0.16	2.1-4.6	0.3-0.8	.28	.28			
	34-50	40-51- 55	10-24- 39	20-25- 35	1.51-1.68	4.00-14.00	0.12-0.16	2.3-4.5	0.1-0.3	.28	.28			
	50-80	40-55- 65	5-23-43	15-22- 30	1.60-1.66	4.00-42.00	0.11-0.16	1.6-3.8	0.0-0.3	.28	.28			
BsC—Bastsil fine sandy loam, 3 to 5 percent slopes														
Bastsil, fine sandy loam	0-9	55-73- 80	5-19- 39	5- 8- 20	1.49-1.54	14.00-42.00	0.12-0.16	0.5-2.9	0.5-1.5	.28	.28	5	3	86
	9-15	55-73- 80	5-19- 39	5- 8- 20	1.55-1.71	14.00-42.00	0.12-0.16	0.4-2.4	0.4-1.3	.28	.28			
	15-38	40-50- 55	10-22- 37	20-28- 35	1.48-1.58	4.00-14.00	0.12-0.16	2.1-4.6	0.3-0.8	.28	.28			
	38-69	40-51- 55	10-24- 39	20-25- 35	1.51-1.68	4.00-14.00	0.12-0.16	2.3-4.5	0.1-0.3	.28	.28			
	69-80	40-55- 65	5-23- 43	15-22- 30	1.60-1.66	4.00-42.00	0.11-0.16	1.6-3.8	0.0-0.3	.28	.28			

					Phys	ical Soil Properti	es–Erath Cou	nty, Texas						
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensibility	Organic matter	Erosion factors			Wind erodibility	Wind erodibility
					density	conductivity	capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	ln/ln	Pct	Pct					
CtB—Clairette- Hassee very fine sandy loams, 1 to 3 percent slopes														
Clairette, very fine sandy loam	0-4	52-68- 80	2-21- 42	5-11- 18	1.42-1.60	14.00-42.00	0.10-0.17	0.2-1.5	0.5-2.0	.49	.49	5	3	86
	4-10	35-49- 75	5-32- 50	10-19- 24	1.44-1.57	4.00-14.00	0.15-0.19	0.7-2.3	0.5-1.5	.37	.37			
	10-26	20-31- 60	0-31-48	32-38- 55	1.42-1.66	1.40-4.00	0.10-0.18	3.7-8.7	0.3-1.0	.28	.28			
	26-56	25-40- 60	0-27-53	18-33- 45	1.46-1.54	4.00-14.00	0.16-0.20	1.1-6.3	0.1-0.8	.24	.24			
	56-74	25-47- 70	0-27-53	15-26- 45	1.54-1.64	4.00-14.00	0.12-0.13	0.8-6.2	0.1-0.6	.28	.28			
	74-80	10-56- 75	0-27-73	10-17- 45	1.50-1.70	14.00-42.00	0.12-0.17	0.4-6.3	0.1-0.5	.32	.32			
Hassee, very fine sandy loam	0-5	52-68- 80	0-19- 38	10-13- 20	1.54-1.58	4.00-14.00	0.10-0.14	0.4-2.4	0.5-1.5	.55	.55	5	3	86
	5-14	35-68- 75	5-17-45	10-15- 20	1.41-1.52	4.00-14.00	0.07-0.12	0.4-2.4	0.2-1.2	.55	.55			
	14-35	25-30- 50	7-27-40	35-43- 50	1.40-1.53	0.01-0.42	0.06-0.10	5.8-10.4	0.5-1.2	.32	.32			
	35-45	25-32- 55	0-24- 45	30-44- 50	1.45-1.52	0.01-0.42	0.06-0.10	3.8-10.2	0.2-1.0	.28	.28			
	45-79	25-35- 55	4-26-45	30-39- 45	1.40-1.53	0.01-0.42	0.05-0.10	3.7-8.5	0.1-0.5	.32	.32			

Physical Soil Properties-Erath County, Texas Man symbol Donth Sand Silt Clay Maint Saturated Available Linear Countie Facility Wind Wind														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensibility	Organic matter		Erosio facto		Wind erodibility	Wind erodibility
					density	conductivity	capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	In/In	Pct	Pct					
CtC—Clairette loam, 3 to 5 percent slopes														
Clairette, loam	0-4	35-44- 75	9-36- 50	10-20- 24	1.47-1.62	4.00-14.00	0.15-0.19	0.7-2.3	0.5-1.5	.37	.37	5	6	48
	4-10	35-49- 75	5-32- 50	10-19- 24	1.44-1.57	4.00-14.00	0.15-0.19	0.7-2.3	0.5-1.5	.37	.37			
	10-26	20-31- 60	0-31-48	32-38- 55	1.42-1.66	1.40-4.00	0.10-0.18	3.7-8.7	0.3-1.0	.28	.28			
	26-56	25-40- 60	0-27- 53	18-33- 45	1.46-1.54	4.00-14.00	0.16-0.20	1.1-6.3	0.1-0.8	.24	.24			
	56-74	25-47- 70	0-27- 53	15-26- 45	1.54-1.64	4.00-14.00	0.12-0.13	0.8-6.2	0.1-0.6	.28	.28			
	74-80	10-56- 75	0-27-73	10-17-45	1.50-1.70	14.00-42.00	0.12-0.17	0.4-6.3	0.1-0.5	.32	.32			
FhC2—Fairy- Hico complex, 1 to 5 percent slopes, moderately eroded														
Fairy, moderately eroded	0-13	52-68- 80	6-26-43	5- 6- 18	1.47-1.51	14.00-42.00	0.10-0.17	0.3-1.8	0.5-2.0	.55	.55	5	3	86
	13-45	30-55- 75	0-21- 52	17-24- 34	1.40-1.60	4.00-14.00	0.05-0.17	1.3-4.6	0.3-1.3	.24	.24			
	45-68	40-45- 90	0-33- 56	4-22- 31	1.50-1.66	4.00-42.00	0.05-0.17	0.0-2.8	0.1-0.5	.32	.32			
	68-80	5-15- 75	0-43- 53	5-42- 45	1.60-1.76	0.42-42.00	0.12-0.18	0.0-6.1	0.0-0.5	.32	.32			
Hico, moderately eroded	0-12	55-65- 80	6-24- 39	6-11- 18	1.46-1.51	14.00-42.00	0.10-0.15	0.4-2.0	0.5-2.0	.28	.28	5	3	86
	12-51	30-55- 75	0-17-48	17-28- 34	1.44-1.64	4.00-14.00	0.05-0.17	1.7-4.4	0.3-1.3	.20	.20			
	51-80	40-60- 90	0-24- 50	4-16- 31	1.53-1.64	4.00-42.00	0.05-0.17	0.1-3.5	0.1-0.5	.28	.28			

Physical Soil Properties-Erath County, Texas Map symbol Depth Sand Silt Clay Moist Saturated Available Linear Organic Erosion Wind Wind														
Map symbol and soil name	Depth	Sand	Silt	Clay	bulk	hydraulic	Available water	Linear extensibility	Organic matter	1	Erosi facto		Wind erodibility	Wind erodibility
					density	conductivity	capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	In/In	Pct	Pct					
FriA—Frio silty clay, 0 to 1 percent slopes, occasionally flooded														
Frio, occasionally flooded	0-22	2-10- 2 0	40-46- 58	40-44- 50	1.15-1.35	1.40-4.00	0.12-0.20	6.8-10.2	1.0-4.0	.20	.20	5	4	86
	22-40	2-15- 40	18-47- 68	30-38- 50	1.30-1.55	1.40-4.00	0.08-0.16	3.6-10.0	1.0-2.0	.32	.32			
	40-80	2- 9- 40	18-47- 68	30-44- 50	1.30-1.55	1.40-4.00	0.08-0.16	3.2-9.7	0.1-1.0	.32	.32			
Pd—Purves- Dugout- Maloterre complex, 1 to 20 percent slopes														
Purves, stony clay	0-8	8-25- 40	7-28- 40	40-48- 55	1.16-1.35	0.42-1.40	0.11-0.20	4.1-9.3	1.0-5.0	.05	.10	1	5	56
	8-12	8-26- 40	20-29- 54	35-45- 55	1.17-1.47	0.42-4.00	0.08-0.18	2.9-10.8	1.0-4.0	.15	.15			
	12-14	8-26- 40	20-29- 54	35-45- 55	1.21-1.47	0.42-4.00	0.04-0.07	1.0-7.3	1.0-3.0	.05	.17			
	14-24			-	-	0.42-14.00	_	-	-					
Dugout, gravelly clay loam	0-8	22-30- 42	28-42- 51	27-28- 35	1.31-1.47	1.40-4.00	0.06-0.15	1.9-5.4	1.0-2.0	.15	.28	1	5	56
	8-18	20-23- 40	28-48- 60	15-29- 35	1.40-1.53	1.40-4.00	0.07-0.16	0.0-4.9	0.1-1.2	.28	.28			
	18-28		=	_	_	0.42-14.00	_	_						
Maloterre, gravelly clay loam	0-8	30-35- 45	24-36- 43	27-29- 35	1.18-1.40	4.00-14.00	0.06-0.11	1.8-6.0	1.0-7.0	.15	.24	1	5	56
	8-18	_	_	-		0.01-0.42	_		_					

Physical Soil Properties-Erath County, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	hydraulic w	Available water	Linear extensibility	Organic matter	Erosion factors			Wind erodibility	Wind erodibility
					density	conductivity	capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	In/In	Pct	Pct					
WaB—Hassee fine sandy loam, 1 to 3 percent slopes							2							
Hassee	0-12	-69-	-16-	10-15- 20	1.50-1.65	4.00-14.00	0.11-0.17	0.0-2.9	0.5-2.0	.32	.32	5	3	86
	12-50	- 18-	-29-	45-53- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.5-1.0	.24	.24	1		
	50-60	-24-	-29-	35-48- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
WaB2—Hassee fine sandy loam, 1 to 3 percent slopes, eroded														
Hassee	0-6	-69-	-16-	10-15- 20	1.50-1.65	4.00-14.00	0.11-0.17	0.0-2.9	0.5-2.0	.32	.32	5	3	86
	6-50	-18-	-29-	45-53- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.5-1.0	.24	.24			
	50-60	-23-	-29-	35-48- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
WkA—Hassee fine sandy loam, thick surface, 0 to 2 percent slopes														
Hassee	0-18	-69-	-16-	10-15- 20	1.50-1.65	4.00-14.00	0.11-0.17	0.0-2.9	0.5-2.0	.32	.32	5	3	86
	18-55	-18-	-29-	45-53- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.5-1.0	.24	.24			
	55-65	-24-	-29-	35-48- 60	1.30-1.55	0.01-0.42	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			

Physical Soil Properties-Erath County, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated Available hydraulic water conductivity capacity		Linear extensibility	Organic matter	Erosion factors			Wind erodibility	Wind erodibility
					density	Conductivity	capacity			Kw	Kf	Т	group	index
	In	Pct	Pct	Pct	g/cc	micro m/sec	ln/ln	Pct	Pct					
WnD3— Windthorst and Duffau sandy clay loams, 1 to 8 percent slopes, severely eroded														
Windthorst, severely eroded	0-6	46-62- 66	14-15- 27	20-23- 34	1.47-1.56	1.40-14.00	0.11-0.14	0.7-5.3	0.5-1.0	.43	.43	4	5	56
	6-16	32-40- 43	16-24- 33	26-36-43	1.35-1.51	1.40-4.00	0.15-0.19	3.8-5.6	0.5-1.0	.37	.37			
	16-25	31-41- 52	16-26- 39	27-33- 38	1.39-1.55	1.40-4.00	0.16-0.20	3.2-5.6	0.3-0.8	.37	.37			
	25-33	36-46- 59	19-32- 41	14-22- 30	1.35-1.60	1.40-4.00	0.15-0.19	2.0-5.0	0.1-0.4	.55	.55			
	33-79	26-61- 85	8-27- 57	7-12- 25	1.76-1.88	0.42-4.00	0.01-0.03	0.5-2.6	0.0-0.2	.64	.64			
Duffau, severely eroded	0-7	59-64- 70	10-11- 18	20-25- 30	1.46-1.60	4.00-42.00	0.11-0.13	2.1-3.8	0.4-2.0	.24	.24	4	5	56
	7-44	43-57- 61	11-18- 23	18-25- 39	1.48-1.60	4.00-14.00	0.11-0.13	1.9-5.1	0.2-0.6	.32	.32			
	44-60	33-66- 81	12-15-42	4-19- 32	1.55-1.61	4.00-42.00	0.13-0.15	0.1-3.7	0.1-0.3	.37	.37			
	60-79	26-61-85	8-27-57	7-12- 25	1.76-1.88	0.42-4.00	0.01-0.03	0.5-2.7	0.0-0.2	.64	.64			

Physical Soil Properties-Erath County, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	bulk hydraulic water extensibility m density conductivity capacity	Organic matter	Erosion factors			Wind erodibility	Wind erodibility			
						conductivity	capacity			Kw	w Kf	Т	group	index
	In	Pct	Pct	Pct		micro m/sec	In/In	Pct	Pct					
WoB— Windthorst very fine sandy loam, 1 to 5 percent slopes														
Windthorst, very fine sandy loam	0-8	52-68- 80	5-21- 40	5-11- 18	1.42-1.60	14.00-42.00	0.10-0.17	0.2-1.5	0.5-2.0	.43	.43	5	3	86
	8-33	30-46- 60	5-16- 35	35-38- 50	1.43-1.60	1.40-4.00	0.10-0.20	4.4-7.6	0.2-1.0	.28	.28			
	33-46	30-46- 70	5-18- 35	25-36- 50	1.38-1.60	1.40-14.00	0.10-0.20	2.4-7.6	0.2-1.0	.32	.32			
	46-80	30-65- 75	0-25-53	5-10- 45	1.45-1.70	1.40-42.00	0.11-0.18	0.1-6.5	0.0-0.5	.55	.55	1		

Data Source Information

Soil Survey Area: Erath County, Texas Survey Area Data: Version 20, Sep 5, 2023

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx? content=17757.wba). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Engineering Properties–Erath County, Texas														
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	agments	Percent	age passi				
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
BaB—Blanket clay loam, 1 to 3 percent slopes														
Blanket	90	С	0-14	Clay loam	CH, CL	A-6, A-7-6	0- 0- 0	0- 0- 0	97-100- 100	95-100- 100	90-99-1 00	76-85- 89	39-45 -51	18-22-2 5
			14-40	Clay, silty clay, clay loam	CH, CL	A-7-6	0-0-0	0- 0- 0	97-100- 100	94-100- 100	91-99-1 00	78-85- 97	45-50 -64	24-27-3 6
			40-56	Clay, silty clay loam, clay loam	CH, CL	A-6, A-7-6	0- 0- 0	0- 0- 0	91-100- 100	81-100- 100	76-99-1 00	62-83-1 00	35-42 -61	16-22-3 6
			56-80	Clay loam, clay, silty clay loam	CH, CL	A-6, A-7-6	0- 0- 0	0- 0- 0	91-100- 100	82-100- 100	80-99-1 00	63-78-1 00	35-37 -61	16-18-3 6

	D.1 . 6		5	UODA		r	5.15						I	
Map unit symbol and soil name	Pct. of map	Hydrolo gic	Depth	USDA texture	Classi	fication	Pct Fra	agments	Percent	age passi	ng sieve i	number—	Liquid limit	Plastici y index
0011	unit	group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		,
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
BdC—Bolar-Denton complex 3 to 5 percent slopes														
Bolar	55	С	0-16	Clay loam	CL, CH	A-6, A-7-6	0- 0- 0	0- 1- 5	84-95-1 00	82-94-1 00	69-85- 97	52 - 67- 81	34-40 -51	13-17-2 4
			16-32	Gravelly loam, gravelly clay loam, clay loam, silty clay loam, loam	CL, GC	A-6, A-7-6, A-4	0- 0- 0	0- 1- 4	65-92- 98	61-91- 98	50-82- 95	36-65- 79	26-35 -46	8-14-21
			32-36	Silty clay loam, loam, gravelly loam, gravelly clay loam, clay loam	GC, CL, GC-GM	A-6, A-7-6, A-2-4	0- 0- 0	0- 1- 7	58-70- 98	54-67- 98	44-60- 95	32-47- 79	28-36 -44	7-12-18
			36-80	Bedrock	_	-			_		_		_	_
Denton	35	D	0-10	Silty clay	CH, CL	A-7-6, A-7-5	0- 0- 0	0-0-0	91-95-1 00	90-94-1 00	87-93-1 00	82-90-1 00	45-54 -66	21-27-3 4
			10-28	Clay, silty clay, silty clay loam	CL, CH, MH	A-7-6, A-7-5	0- 0- 0	0- 0- 0	84-95-1 00	82-94-1 00	77-94-1 00	70-90-1 00	41-55 -66	18-26-3 3
9.			28-32	Clay, silty clay, silty clay loam	CH, ML	A-7-6	0- 0- 0	0- 0- 0	85-95-1 00	83-95-1 00	77-94-1 00	71-90-1 00	43-51 -57	16-23-2 8
			32-38	Cobbly silt loam, cobbly silty clay loam, gravelly silt loam, gravelly silty clay loam, silt loam, silty clay loam	ML, GM	A-4, A-7-6	0- 0- 0	0-6-25	61-91- 93	56-90- 92	51-89- 92	45-85- 92	26-37 -44	3-10-15
			38-80	Bedrock	_		_	_	_		_		_	

Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	agments	Percent	age passi	ing sieve i	number—	Liquid	Plastici
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
BsB—Bastsil fine sandy loam, 1 to 3 percent slopes														
Bastsil, fine sandy loam	90	В	0-8	Fine sandy loam	SC-SM, CL, SM	A-4, A-6, A-2-4	0- 0- 0	0- 0- 0	95-100- 100	90 - 98-1 00	74-89-1 00	28-37- 58	17-21 -34	2-5 -13
			8-15	Fine sandy loam	SC-SM, CL, SM	A-4, A-6, A-2-4	0- 0- 0	0- 0- 0	95-100- 100	91-98-1 00	74-89-1 00	28-38- 58	17-20 -33	2-4 -13
			15-34	Loam, clay loam, sandy clay loam	CL, SC	A-6, A-7-6	0- 0- 0	0- 0- 0	100-100 -100	97-98 - 1 00	88-95-1 00	49-58- 67	31-39 -46	13-19-2 5
			34-50	Loam, clay loam, sandy clay loam	CL, SC	A-6, A-7 - 6	0- 0- 0	0-0-0	100-100 -100	97-98-1 00	88-95-1 00	49-57- 67	30-35 -45	13-17-2 5
			50-80	Fine sandy loam, loam, clay loam, sandy clay loam	CL, SC	A-6, A-4	0- 0- 0	0- 0- 0	100-100 -100	97-98-1 00	87-95-1 00	43-53- 65	25-32 -40	10-15-2 1
BsC—Bastsil fine sandy loam, 3 to 5 percent slopes														
Bastsil, fine sandy loam	85	В	0-9	Fine sandy loam	SC-SM, CL, SM	A-4, A-6, A-2-4	0- 0- 0	0- 0- 0	95-100- 100	90 - 98-1 00	74-89-1 00	28-37- 58	17-21 -34	2-5 -13
			9-15	Fine sandy loam	SC-SM, CL, SM	A-4, A-6, A-2-4	0- 0- 0	0- 0- 0	95-100- 100	91-98-1 00	74-89-1 00	28-38- 58	17-20 -33	2-4 -13
			15-38	Loam, clay loam, sandy clay loam	CL, SC	A-6, A-7-6	0- 0- 0	0- 0- 0	100-100 -100	97-98-1 00	88-95-1 00	49-58- 67	31-39 -46	13-19-2 5
			38-69	Loam, clay loam, sandy clay loam	CL, SC	A-6, A-7-6	0- 0- 0	0- 0- 0	100-100 -100	97-98-1 00	88-95-1 00	49-57- 67	30-35 -45	13-17-2 5
			69-80	Fine sandy loam, loam, clay loam, sandy clay loam	CL, SC	A-6, A-4	0- 0- 0	0- 0- 0	100-100 -100	97 - 98-1 00	87-95-1 00	43-53- 65	25-32 -40	10-15-2 1

				Engine	ering Proper	ties–Erath (County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Classi	fication	Pct Fra	gments	Percent	age passi	ng sieve	number—	Liquid	Plastici
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
CtB—Clairette- Hassee very fine sandy loams, 1 to 3 percent slopes														
Clairette, very fine sandy loam	50	С	0-4	Very fine sandy loam	CL-ML, CL, SM, ML	A-4	0- 0- 0	0- 0- 0	98-100- 100	97-100- 100	87-98-1 00	43-55- 66	0-18 -30	NP-3 -10
			4-10	Very fine sandy loam, sandy clay loam, loam, fine sandy loam	SC-SM, CL	A-6, A-4	0- 0- 0	0- 0- 0	97-100- 100	92-100- 100	70-87-1 00	42-59- 77	17-28 -33	4-11-14
			10-26	Clay, clay loam, sandy clay	CL, CH	A-7-6, A-7-5, A-6	0- 0- 0	0- 0- 0	97-100- 100	92-100- 100	78-93-1 00	56-74- 86	39 -4 3 -62	21-23-3 1
			26-56	Loam, sandy clay loam, clay, sandy clay, clay loam	SC, CL, CH	A-7-6, A-6, A-4	0- 0- 0	0- 0- 0	94-100- 100	81-100- 100	64 - 90-1 00	42-67- 80	24-38 -54	9-18-29
			56-74	Sandy clay, clay, sandy clay loam, loam, clay loam	CL, CH, SC-SM	A-4, A-6, A-7-6	0- 0- 0	0- 0- 0	94-100- 100	82-100- 100	64-89-1 00	37-58- 75	17-31 -53	6-16-31

				Enginee	ering Proper	ties-Erath (County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Classi	fication	Pct Fra	gments	Percent	age passi	ng sieve	number—	Liquid	Plasticit
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
			74-80	Loam, fine sandy loam, silty clay loam, clay, clay loam, sandy clay loam	CH, CL- ML, SC- SM	A-4, A-7-6, A-2-4	0- 0- 0	0-0-0	90-100- 100	80-100- 100	60-89-1 00	30-52- 79	17-21 -52	4-7 -33
Hassee, very fine sandy loam	40	D	0-5	Very fine sandy loam	CL, SC- SM	A-4, A-6	0-0-0	0- 0- 0	97-100- 100	92-100- 100	84-99-1 00	41-54- 66	22-25 -33	6-8 -13
			5-14	Loam, very fine sandy loam, sandy clay loam, fine sandy loam	CL, SC- SM	A-4, A-6, A-2-4	0- 0- 0	0- 0- 0	97-100- 100	91-100- 100	79-99-1 00	35-54- 67	21-26 -33	6-9 -13
			14-35	Clay, clay loam, sandy clay	CH, CL	A-7-6	0-0-0	0- 0- 0	97-100- 100	91-100- 100	83-98-1 00	61-78- 84	46-55 -63	25-31-3 7
			35-45	Clay, clay loam, sandy clay loam, sandy clay	CH, CL	A-7-6, A-6	0- 0- 0	0- 0- 0	97-100- 100	91-100- 100	81-97-1 00	56-76- 85	40-55 -62	21-32-3 7
			45-79	Clay, sandy clay, clay loam, sandy clay loam	CL, CH	A-7-6, A-6	0- 0- 0	0- 0- 0	97-100- 100	91-100- 100	80-96-1 00	55-72- 81	39-49 -56	20-28-3 3

				Enginee	ring Proper	ties–Erath (County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Classi	fication	Pct Fra	agments	Percent	age passi	ng sieve i	number—	Liquid	Plastici
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
CtC—Clairette loam, 3 to 5 percent slopes														
Clairette, loam	90	С	0-4	Loam, sandy clay loam, very fine sandy loam, fine sandy loam	SC-SM, CL	A-4, A-6	0- 0- 0	0- 0- 0	97-100- 100	92-100- 100	92-100- 100	47-66- 81	17-26 -33	4-10-14
			4-10	Very fine sandy loam, sandy clay loam, loam, fine sandy loam	SC-SM, CL	A-6, A-4	0- 0- 0	0- 0- 0	97-100- 100	92-100- 100	70-87-1 00	42-59- 77	17-28 -33	4-11-14
			10-26	Clay, clay loam, sandy clay	CL, CH	A-7-6, A-7-5, A-6	0- 0- 0	0- 0- 0	97-100- 100	92-100- 100	78-93-1 00	56-74- 86	39-43 -62	21-23-3 1
			26-56	Loam, sandy clay loam, clay, sandy clay, clay loam	SC, CL, CH	A-7-6, A-6, A-4	0- 0- 0	0- 0- 0	94-100- 100	81-100- 100	64-90-1 00	42-67- 80	24-38 -54	9-18-29
			56-74	Sandy clay, clay, sandy clay loam, loam, clay loam	SC-SM, CL, CH	A-7-6, A-4, A-6	0- 0- 0	0- 0- 0	94-100- 100	82-100- 100	64-89-1 00	37-58- 75	17-31 -53	6-16-31
			74-80	Loam, fine sandy loam, silty clay loam, clay, clay loam, sandy clay loam	CH, CL- ML, SC- SM	A-4, A-7-6, A-2-4	0- 0- 0	0- 0- 0	90-100- 100	80-100- 100	60-89-1 00	30-52- 79	17-21 -52	4-7 -33

				Engine	ering Prope	ties-Erath (County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	agments	Percent	age passi	ng sieve	number—	Liquid	Plastic
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
FhC2—Fairy-Hico complex, 1 to 5 percent slopes, moderately eroded														
Fairy, moderately eroded	45	В	0-13	Very fine sandy loam	CL-ML, SM, CL	A-4	0- 0- 0	0- 0- 0	98-99-1 00	97-98-1 00	87-96-1 00	44-54- 67	0-17 -29	NP-5 -9
			13-45	Fine sandy loam, clay loam, sandy clay loam	CL, SC- SM	A-4, A-6, A-7-6	0- 0- 0	0- 0- 0	93-98-1 00	92-98-1 00	71-87-1 00	38-51- 68	19-31 -41	7-16-24
			45-68	Sandy clay loam, loamy fine sand, silt loam, loam, fine sandy loam	CL, SM	A-4, A-6	0- 0- 0	0- 0- 0	93-100- 100	92-100- 100	69-88-1 00	41-62- 78	0-30 -37	NP-11-1 7
			68-80	Sandy clay, bedrock, sandy clay loam, loam, clay loam, very fine sandy loam, silty clay	ML, CL	A-7-6, A-4	0- 0- 0	0- 0- 0	91-99-1 00	89-99-1	70-95-1 00	53-86-1 00	0-47 -49	NP-27-2 7
Hico, moderately eroded	35	В	0-12	Fine sandy loam	SM, SC- SM, CL	A-4, A-2-4	0- 0- 0	0-0-0	93-100- 100	92-100- 100	77-92- 98	33-45- 54	15-20 -27	1-5 -10
			12-51	Fine sandy loam, clay loam, sandy clay loam	SC, CL	A-6, A-7-6, A-4	0- 0- 0	0- 0- 0	93-100- 100	92-100- 100	71-87-1 00	38-51- 66	26-37 -43	9-18-23
			51-80	Loamy fine sand, loam, sandy clay loam, fine sandy loam	CL, SM, SC	A-2-4, A-4, A-6	0- 0- 0	0- 0- 0	93-96-1 00	92-95-1 00	71-84-1 00	33-47- 67	0-25 -40	NP-9 -20

				Enginee	ring Proper	ties-Erath (County, Te	exas						
Map unit symbol and soil name	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	gments	Percent	age passi	ng sieve ı	number		Plasticit
soii name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			ln				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
FriA—Frio silty clay, 0 to 1 percent slopes, occasionally flooded														
Frio, occasionally flooded	85	С	0-22	Silty clay	СН	A-7-6	0- 0- 0	0- 0- 0	96 - 98-1	96-98-1 00	92-98-1 00	85-92-1 00	51-57 -69	33-37-4 4
			22-40	Clay, silty clay, silty clay loam, clay loam	CH, CL	A-7-6	0- 0- 0	0- 0- 0	92-98-1 00	92-98-1 00	82 - 98-1 00	69-90-1 00	45-54 -65	28-34-4 2
			40-80	Clay loam, clay, silty clay loam, silty clay	CL, CH	A-7-6	0- 0- 0	0- 0- 0	92-98-1 00	91-98-1 00	82-98-1 00	72-93-1 00	43-57 -62	25-35-3 9

			11:	Enginee	ring Prope	ties–Erath (County, Te	exas						
Map unit symbol and soil name	Pct. of	Hydrolo	Depth	USDA texture	Class	fication	Pct Fra	gments	Percent	age passi	ing sieve	number—	Liquid	Plastici
Soil Haine	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
Pd—Purves-Dugout- Maloterre complex, 1 to 20 percent slopes														
Purves, stony clay	37	D	0-8	Stony clay	CH, GC	A-7-6	18 - 25- 37	0- 8- 15	69-95- 98	67-95- 98	57-88- 97	46-76 - 86	55-60 -68	36-39-4 3
			8-12	Clay loam, gravelly silty clay loam, gravelly clay loam, gravelly silty clay, gravelly clay, clay, silty clay loam, silty clay	CH, GC	A-7-6, A-2-7	0- 0- 0	0-0-7	50-91-1 00	48-90-1 00	40-82- 99	34-71- 91	49-61 -67	30-38-4
			12-14	Very cobbly silty clay, very gravelly clay loam, gravelly clay loam, extremely gravelly clay, gravelly clay, extremely gravelly silty clay loam	CH, GP- GC, GC	A-7-6, A-2-7	0-0-0	0- 2- 22	19-27- 62	15-24- 60	13-21- 58	11-19- 54	49-57 -68	30-36-4 4
			14-24	Bedrock	=	-	=	_		_	Ī			_
Dugout, gravelly clay loam	25	D	0-8	Gravelly clay loam	SC, CL, GC	A-6, A-7-6, A-2-6	0- 0- 1	0-0-1	58-77- 95	37-62- 91	33-58- 90	25-46- 74	35-38 -42	14-16-1 9
			8-18	Gravelly silt loam, gravelly loam, gravelly clay loam, silt loam, loam, clay loam	CL, GC- GM	A-6, A-7-6, A-1-b	0- 0- 1	0- 0- 1	58-80- 91	37-78- 91	32-73- 91	25-62- 80	25-36 -43	4-12-17
			18-28	Bedrock				_						

				Engine	ering Prope	ties–Erath (County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	agments	Percent	age passi	ng sieve i	number—	Liquid	Plastici
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			ln				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
Maloterre, gravelly clay loam	22	D	0-8	Gravelly clay loam	CL, GC, SC	A-7-6, A-2-6, A-6	0- 0- 0	0- 1- 2	57-76- 94	36-60- 91	29-51- 82	23-42- 69	36-38 -44	12-15-2 3
			8-18	Bedrock	-	=3	=	=	=				-	-
WaB—Hassee fine sandy loam, 1 to 3 percent slopes														
Hassee	100	D	0-12	Fine sandy loam	CL	A-4, A-6	0- 0- 0	0- 0- 0	95-98-1 00	95-98-1 00	80-90-1 00	50-65- 80	20-28 -35	8-12-16
			12-50	Silty clay, clay	CH, CL	A-7-6	0- 0- 0	0- 0- 0	95 - 98-1 00	95-98-1 00	95-98-1 00	75-85- 95	41-52 -62	24-33-4 1
			50-60	Clay loam, clay	CH, CL	A-6, A-7-6	0- 0- 0	0-0-0	95-98-1 00	9 5-98 -1	90-95-1 00	70-83- 95	35-44 -52	20-28-3 5
WaB2—Hassee fine sandy loam, 1 to 3 percent slopes, eroded														
Hassee	100	D	0-6	Fine sandy loam	CL	A-4, A-6	0- 0- 0	0-0-0	95-98-1 00	95-98-1 00	80-90-1 00	50-65- 80	20-28 -35	8-12-16
	-		6-50	Silty clay, clay	CH, CL	A-7-6	0- 0- 0	0-0-0	95-98-1 00	95-98-1 00	95-98-1 00	75-85- 95	41-52 -62	24-33-4 1
			50-60	Clay, clay loam	CH, CL	A-6, A-7-6	0- 0- 0	0-0-0	95-98-1 00	95-98-1 00	90 - 95-1	70-83- 95	35-44 -52	20-28-3 5

				Engine	ering Prope	ties–Erath C	County, Te	exas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Class	ification	Pct Fra	gments	Percent	age passi	ng sieve	number		Plasticit
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
WkA—Hassee fine sandy loam, thick surface, 0 to 2 percent slopes														
Hassee	80	D	0-18	Fine sandy loam	CL	A-4, A-6	0- 0- 0	0- 0- 0	95-98-1 00	95-98-1 00	80 - 90-1 00	50-65- 80	20-28 -35	8-12-16
			18-55	Silty clay, clay	CH, CL	A-7-6	0- 0- 0	0- 0- 0	95-98-1 00	95-98-1 00	95-98-1 00	75-85- 95	41-52 -62	24-33-4 1
			55-65	Clay loam, clay	CH, CL	A-6, A-7-6	0- 0- 0	0- 0- 0	95-98-1 00	95-98-1 00	90-95-1 00	70-83- 95	35-44 -52	20-28-3 5

				r	T	rties-Erath C								T
Map unit symbol and soil name	Pct. of map	Hydrolo gic	Depth	USDA texture	Class	ification	Pct Fra	agments	Percenta	age passi	ng sieve ı	number—	Liquid limit	Plasticit y index
3011 Haille	unit	group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	III.	y maex
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
WnD3—Windthorst and Duffau sandy clay loams, 1 to 8 percent slopes, severely eroded														
Windthorst, severely eroded	50	С	0-6	Sandy clay loam	CL	A-6	0- 0- 0	0- 0- 0	95-100- 100	90-100- 100	87-100- 100	54-63- 74	30-35 -46	13-16-2 4
			6-16	Loam, clay loam, clay	CL	A-7-6, A-6	0- 0- 0	0- 0- 0	100-100 -100	100-100 -100	94-100- 100	68-77- 83	37-47 -54	18-26-3 1
			16-25	Clay loam, sandy clay loam	CL	A-6, A-7-6	0-0-0	0- 0- 0	100-100 -100	100-100 -100	94-100- 100	69-77- 87	37-43 -49	19-23 - 2 7
			25-33	Sandy clay loam, very fine sandy loam, loam, clay loam	CL	A-4, A-7-6, A-6	0- 0- 0	0- 0- 0	100-100 -100	100-100 -100	93-100- 100	65-75- 83	25-33 -41	8-14-21
			33-79	Silt loam, loamy very fine sand, loam, very fine sandy loam	CL, ML, CL-ML	A-4	0- 0- 0	0- 0- 0	100-100 -100	100-100 -100	87-100- 100	49-69- 88	18-23 -35	3-7 -17
Duffau, severely eroded	40	В	0-7	Sandy clay loam	sc	A-6	0- 0- 0	0- 0- 0	97-100- 100	95-100- 100	89-99-1 00	40-47- 52	31-37 -44	13-17-2 1
			7-44	Sandy clay loam, sandy clay, clay loam, fine sandy loam	CL	A-6	0- 0- 0	0- 0- 0	100-100 -100	100-100 -100	93-100- 100	52-59- 67	29-36 -49	12-18-2 8
			44-60	Loamy fine sand, loam, fine sandy loam, clay loam, sandy clay loam	SC-SM, SC, CL	A-6, A-4	0- 0- 0	0- 0- 0	100-100 -100	100-100 -100	89-99-1 00	40-49- 64	0-29 -42	NP-15-2 2
	1,3		60-79	Loam, very fine sandy loam, loamy very fine sand, silt loam	CL-ML, ML, CL	A-4	0-0-0	0- 0- 0	100-100 -100	100-100 -100	87-100- 100	49-69- 88	18-23 -35	3-7 -17

				Enginee	ring Proper	ties-Erath C	ounty, Te	xas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Classi	fication	Pct Fra	gments	Percenta	age passi	ng sieve r	number—	Liquid	Plasticit
soil name	map unit	gic group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	y index
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
WoB—Windthorst very fine sandy loam, 1 to 5 percent slopes														
Windthorst, very fine sandy loam	85	С	0-8	Very fine sandy loam	CL, SM, ML, CL- ML	A-4	0- 0- 0	0- 0- 0	98-100- 100	97-100- 100	87-98-1 00	43-55- 66	0-18 -30	NP-3 -10
			8-33	Clay, sandy clay, clay loam	CH, CL	A-6, A-7-6	0- 0- 0	0-0-0	98-100- 100	97-100- 100	90-100- 100	57-69- 80	36-40 -51	21-24-3 2
			33-46	Sandy clay loam, sandy clay, clay, clay loam	CL, CH	A-6, A-7-6	0- 0- 0	0- 0- 0	98 - 100- 100	97-100- 100	88-100- 100	54-69- 80	29-37 -51	14-21-3 2
			46-80	Bedrock, very fine sandy loam, loam, clay, sandy clay loam, sandy clay, clay loam	SM, ML, CL, CL- ML	A-4, A-7-6, A-2-4	0- 0- 0	0- 0- 0	91-99-1 00	89-99-1 00	74-96-1 00	33-56- 80	0-15 -49	NP-3 -29

Data Source Information

Soil Survey Area: Erath County, Texas Survey Area Data: Version 20, Sep 5, 2023

9/5/2024

T.H: ENGINEERING REPORT

T.H.1 Purpose

This report is prepared as part of the application for Vanden Berge Farms for a Texas Land Application Permit (TLAP) through the Texas Commission on Environmental Quality (TCEQ). Water balance models have been developed to illustrate the function of the impoundment system and the hydraulic and nutrient demands of the planned crops.

T.H.2 Background

Vanden Berge Farms is applying for a new Industrial Water Quality TLAP Permit No. WQ000000000 to receive, store, and dispose of treated effluent from Schreiber Foods, Inc.

T.H.3 Impoundment Facility

The storage system at the facility consists of one earthen impoundment with a storage capacity of 8.4 gallons. The impoundment will contain the treated effluent from Schreiber Foods, Inc.

T.H.4 Water Balance Calculations

Figures T.H.1 & T.H.2, Water Balance Calculations, are designed to evaluate the maximum application rate (hydraulic loading rate) for the land application area, estimate the inflows and withdrawals from the direct rainfall, process-generated wastewater, evaporation, and irrigation withdrawal based on crop demand.

Figure T.H.1 Water Balance Calculations

Permittee: Permit No. Vanden Berge Farms

WQ0000000000

TWDB Data Quadrangle: 509

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analysis.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)	(9b)	(10)	(11)
Month	Avg	Avg	Avg	Evapo-	Required	Total	Effluent	Raw	Reservoir	Effluent	Reservoir
	Rain	Runoff	Infilt	trans.	Leach	Water	Needed	Net	Net Evap.	Needed	Consumtion
			Rainfall			Needs	in	Evap.	(as inches	Based on	(as inches
							Root	from	on plot	Irrigation	on plot
							Zone	Reservoir	acres)	Efficiency	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1.55	0.11	1.44	2.10	0.12	2.22	0.78	0.93	0.02	0.92	0.94
February	1.91	0.23	1.68	2.46	0.14	2.60	0.92	0.79	0.02	1.08	1.10
March	2.61	0.55	2.07	4.06	0.36	4.42	2.36	1.52	0.03	2.77	2.80
April	2.68	0.58	2.09	4.98	0.52	5.50	3.41	2.48	0.05	4.01	4.06
May	4.21	1,54	2.67	5.73	0.56	6.29	3.61	1.04	0.02	4.25	4.27
June	3.43	1.02	2.41	6.82	0.80	7.62	5,21	3.56	0.07	6.13	6.20
July	1.91	0.23	1.68	7.66	1.09	8.75	7.07	6.06	0.12	8.32	8.44
August	2.25	0.37	1.88	7.56	1.03	8.59	6.72	5.47	0.11	7.90	8.01
September	2.99	0.75	2.23	5.78	0.64	6.42	4.19	2.87	0.06	4.93	4.99
October	3.35	0.97	2.38	4.29	0.35	4.64	2.26	1.58	0.03	2.65	2.69
November	1.91	0.23	1.68	2.81	0.21	3.02	1.33	1.41	0.03	1.57	1.60
December	1.40	0.07	1.33	2.24	0.17	2.41	1.08	1.04	0.02	1.27	1.29
Totals	30.21	6.67	23.54	56.49	5.99	62.48	38.94	28.73	0.58	45.81	46.39

Crop is	Coastal						
CN	71.00	dimensionless					
Се	1.00	mmhos/cm					
Cl	6.50	mmhos/cm					
Pond area	3.64	acres					
Irrigation area	180.00	acres					
	100.00	ucres					

Irrigation
Efficiency, K 0.85 dimensionless
Design Flow 0.192 MGD

Maximum calculated application rate = Applicant's proposed application rate = Maximum rate from agronomic analysis =

3.82 N/A ac-in/ac/month **OR** ac-ft/ac/year ac-in/ac/month **OR** ac-ft/ac/year ac-in/ac/month **OR** ac-ft/ac/year

Recommended rate for permit = 3.82

ac-in/ac/month OR ac-ft/ac/year

Limiting factor = Click this cell to choose from list.

Gross rate check (from flow, acres) = 1.19 OK

(2) Average rainfall - Data source: Texas Water Development Board (see Quadrangle above)

- (3) Average runoff = $[(average\ rainfall (0.2*((1000/CN) 10)))]^2/((average\ rainfall + (0.8*((1000/CN) 10))))]^2/((average\ rainfall + (0.8*((1000/CN) 10)))))]^2/((average\ rainfall + (0.8*((1000/CN) 10)))))))$
- (4) Average infiltrated rainfall = $(average \ rainfall average \ runoff)$
- (5) Evapotranspiration Data Source: Mean Crop Consumptive Mean Crop Consumptive Use and Free-Water Evaporation
- (6) Required leaching =
 - If: evapotranspiration average infiltrated rainfall \leq 0, then 0;
 - If: evapotranspiration average infiltrated rainfall > 0, $Ce/(Cl Ce)^*$ (evapotranspiration avg infiltrated rainfall)
- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface = (net evaporation from reservoir)*((pond area)/(irrigation area))
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone)/(irrigation efficiency)
- (11) Consumption from reservoir = net evaporation from reservoir surface + effluent needed based on irrigation efficiency

Figure T.H.2 Water Balance Calculations

Permittee: Vanden Berge Farms
TWDB Data Quadrangle:
WQ0000000000
509

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analyis.

							Effluent	Evaporatio	Effluent to	Consumpti
			Average			Total Water	Needed in	n from	be Applied	on from
	Avg.	Average	Infiltrated	Evapotrans-	Required	Needs	Root Zone	Reservoir	to Land	Reservoir
Month	Precip.	Runoff	Rainfall	piration	Leaching	(5)+(6)	(7)-(4)	Surface	(8)/K	(9)+(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1.55	0.62	0.93	0.00	0.00	0.00	0.00	0.08	0.00	0.08
February	1.91	0.89	1.02	0.00	0.00	0.00	0.00	0.07	0.00	0.07
March	2.61	1.48	1.13	0.00	0.00	0.00	0,00	0.13	0.00	0.13
April	2.68	1.53	1.14	0.00	0.00	0,00	0.00	0.21	0.00	0.21
May	4.21	2.93	1.29	2.98	0.31	3.29	2.00	0.09	2.36	2.44
June	3.43	2.20	1.22	6.10	0.89	6.99	5.76	0.30	6.78	7.08
July	1.91	0.89	1.02	8.38	1.34	9.72	8.70	0.51	10.24	10.75
August	2.25	1.17	1.08	8.59	1.37	9.96	8.88	0.46	10.44	10.91
September	2.99	1.81	1.18	6.03	0.88	6.91	5.73	0.24	6.74	6.99
October	3.35	2.13	1.22	1.65	0.08	1.73	0.51	0.13	0.60	0.73
November	1.91	0.90	1,02	0.00	0.00	0.00	0.00	0.12	0.00	0.12
December	1.40	0.51	0.89	0.00	0.00	0.00	0.00	0.09	0.00	0.09
Totals	30.21	17.07	13.14	33.73	4.86	38.59	31.58	2.43	37.16	39.59

Crop is	Soghum	
CN	88.00	dimensionles
Се	1.00	mmhos/cm
Cl	6.50	mmhos/cm
Pond area	3.64	acres
Irrigation area	43.00	acres
Irrigation		
Efficiency, K	0.85	dimensionles
Design Flow	0.000	MGD

Maximum calculated application rate = 3.30 ac-in/ac/month OR ac-ft/ac/year Applicant's proposed application rate = ac-in/ac/month OR ac-ft/ac/year Maximum rate from agronomic analysis = N/A ac-in/ac/month OR ac-ft/ac/year

Recommended rate for permit = 3.30

ac-in/ac/month OR ac-ft/ac/year

Limiting factor = Click this cell to choose from list.

Gross rate check (from flow, acres) = 0.00 OK

(2) Average rainfall – Data source: Texas Water Development Board (see Quadrangle above)

- (3) Average runoff = $[(average\ rainfall (0.2*((1000/CN) 10)))]^2/((average\ rainfall + (0.8*((1000/CN) 10))))]^2/((average\ rainfall + (0.8*((1000/CN) 10)))))]$
- (4) Average infiltrated rainfall = (average rainfall average runoff)
- (5) Evapotranspiration Data Source: Mean Crop Consumptive Mean Crop Consumptive Use and Free-Water Evaporation
- (6) Required leaching =
 - If: evapotranspiration average infiltrated rainfall ≤ 0 , then 0;
 - $If: evapotranspiration\ -\ average\ infiltrated\ rainfall\ >\ o,\ Ce\ /(Cl-Ce\)* (evapotranspiration\ -\ avg\ infiltrated\ rainfall\)$
- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface = (net evaporation from reservoir)*((pond area)/(irrigation area))
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone)/(irrigation efficiency)
- (11) Consumption from reservoir = net evaporation from reservoir surface + effluent needed based on irrigation efficiency

T.I: POLLUTANT ANALYSIS DATA



Pace Analytical ANALYTICAL REPORT

September 17, 2024





















Enviro-Ag Engineering

Sample Delivery Group:

L1773907

Samples Received:

09/04/2024

Project Number:

Description:

Pollutant Permit

Report To:

Jourdan Mullin

3404 Airway Blvd.

Amarillo, TX 79118

Entire Report Reviewed By: Douty P Roberts

Dorothy P Roberts Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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32

SAMPLE SUMMARY

Collected by

Collected date/time Received date/time

09/04/24 09:03

09/04/24 11:25

Тс





















SCHREIBER IRRIGATION WEEK 2 L1773907-01 WW	SCHREIBER	IRRIGATION	WEEK 2	L1773907-01	WW
--	------------------	------------	--------	-------------	----

Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Calculated Results	WG2357637	40	09/10/24 11:07	09/10/24 11:07	EIG	Allen, TX
Calculated Results	WG2359571	4 .	09/16/24 16:42	09/16/24 16:42	ZSA	Mt. Juliet, TN
Gravimetric Analysis by Method 2540C	WG2358080	1	09/07/24 12:36	09/07/24 14:02	TQQ	Allen, TX
Gravimetric Analysis by Method 2540D	WG2359185	1	09/10/24 05:21	09/10/24 06:48	QQT	Allen, TX
Wet Chemistry by Method 1664A	WG2359152	1	09/10/24 05:20	09/10/24 12:57	MAB	Mt. Juliet, TN
Wet Chemistry by Method 2320B	WG2358720	(1)	09/09/24 12:06	09/09/24 12:06	SEN	Allen, TX
Wet Chemistry by Method 300,0	WG2355826	1	09/04/24 16:57	09/04/24 16:57	EIG	Allen, TX
Wet Chemistry by Method 300.0	WG2359292	(1)	09/10/24 14:23	09/10/24 14:23	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2359292	-1	09/10/24 16:46	09/10/24 16:46	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2360155	1	09/11/24 09:38	09/11/24 09:38	SMC	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2358763	1	09/09/24 16:23	09/09/24 16:23	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2358651	1	09/09/24 12:17	09/10/24 11:07	EIG	Allen, TX
Wet Chemistry by Method 360.1	WG2357350	1	09/06/24 09:02	09/06/24 09:02	SEN	Allen, TX
Wet Chemistry by Method 4500Cl G-2011	WG2358913	1	09/09/24 16:03	09/09/24 16:03	CAH	Mt. Juliet, TN
Wet Chemistry by Method 4500CN-E	WG2359751	3	09/10/24 10:00	09/10/24 15:08	TJG	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2359751	ñ	09/10/24 15:08	09/10/24 15:08	TJG	Allen, TX
Wet Chemistry by Method 4500P-E	WG2357307	10	09/09/24 12:21	09/09/24 12:21	SMC	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2355706	i	09/04/24 16:18	09/09/24 11:14	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2355708	11	09/04/24 17:09	09/09/24 12:36	JBS	Allen, TX
Wet Chemistry by Method 5220D	WG2358816	ii	09/09/24 14:40	09/09/24 15:52	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2356192	1	09/05/24 02:59	09/05/24 02:59	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2359282	1	09/10/24 09:06	09/10/24 09:06	SEN	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2357637	3	09/06/24 17:53	09/06/24 17:53	EIG	Allen, TX
Mercury by Method 245.1	WG2356593	1	09/06/24 15:27	09/07/24 13:11	SDG	Mt. Juliet, TN
Metals (ICP) by Method 200,7	WG2359571	1	09/16/24 07:58	09/16/24 16:42	ZSA	ML Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.























Dorothy P Roberts Project Manager

Doutly P Roberts

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID

Project Sample ID

Method

L1773907-01

SCHREIBER IRRIGATION WEEK

3500Cr-B

SCHREIBER IRRIGATION WEEK 2

SAMPLE RESULTS - 01

Collected date/time: 09/04/24 09:03

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium,Trivalent	NĐ		0.00300	1	09/16/2024 16:42	WG2359571
Organic Nitrogen	ND		0,100	1	09/10/2024 11:07	WG2357637



Gravimetric Analysis by Method 2540C

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Total Dissolved Solids	3350		250	1	09/07/2024 14:02	WG2358080



Ss

Gravimetric Analysis by Method 2540D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	165		41.7	1	09/10/2024 06:48	WG2359185



Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.10	1	09/10/2024 12:57	WG2359152



GI

Wet Chemistry by Method 2320B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Alkalinity	522		20.0	1	09/09/2024 12:06	WG2358720



Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chloride	1340		0.800	1	09/10/2024 16:46	WG2359292
Fluoride	ND		0.500	1	09/11/2024 09:38	WG2360155
Nitrate	ND		0.500	1	09/04/2024 16:57	WG2355826
Sulfate	148		0.700	1	09/10/2024 14:23	WG2359292

Wet Chemistry by Method 3500Cr-B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium, Hexavalent	ND	<u>J6</u>	0,00300	1	09/09/2024 16:23	WG2358763

Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	2.80		0.250	1	09/10/2024 11:07	WG2358651

Wet Chemistry by Method 360.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Oxygen	8.90	<u>T8</u>	1	1	09/06/2024 09:02	WG2357350

Wet Chemistry by Method 4500Cl G-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	0.294	<u>T8</u>	0.100	1	09/09/2024 16:03	WG2358913

SCHREIBER IRRIGATION WEEK 2 Collected date/time: 09/04/24 09:03

SAMPLE RESULTS - 01

Wet Chemistry by Method 4500CN-E

-	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/l	<u> </u>	mg/l		date / time		
Cyanide	ND		0.0100	1	09/10/2024 15:08	WG2359751	



Wet Chemistry by Method 4500CN-G

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide,amenable	ND		0,0100	1	09/10/2024 15:08	WG2359751



Ss

Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus,Total	5.50		0.500	10	09/09/2024 12:21	WG2357307



Wet Chemistry by Method 5210 B-2016

X-	Result	Qualifier RI	L	Dilution	Analysis	Batch
Analyte	mg/l	m	g/l		date / time	
BOD	49.7	10	.0	1	09/09/2024 11:14	WG2355706
CBOD	21.0	10	.0	1	09/09/2024 12:36	WG2355708



Wet Chemistry by Method 5220D

	<u> </u>				
-	Result	Qualifier RD	L Dilution	n Analysis	Batch
Analyte	mg/l	mç	/I	date / time	
COD	211	35	.0 1	09/09/2024 15:52	WG2358816



Al

Wet Chemistry by Method 5310C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	22.5		0.700	1	09/05/2024 02:59	WG2356192

Wet Chemistry by Method SM 4500-H+B

(Result	Qualifier	Dilution	Analysis	Batch
Analyte	SU			date / time	
pН	8.73	T8	1	09/10/2024 09:06	WG2359282

Sample Narrative:

L1773907-01 WG2359282: 8 73 at 19 7C

Wet Chemistry by Method SM4500NH3H

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Ammonia Nitrogen	2.79		0.100	1	09/06/2024 17:53	WG2357637

Mercury by Method 245.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	09/07/2024 13:11	WG2356593

SCHREIBER IRRIGATION WEEK 2

SAMPLE RESULTS - 01

Collected date/time: 09/04/24 09:03

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Aluminum	0.580		0.200	1	09/16/2024 16:42	WG2359571	
Antimony	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Arsenic	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Barium	0.0232		0.00500	1	09/16/2024 16:42	WG2359571	
Beryllium	ND		0.00200	1	09/16/2024 16:42	WG2359571	
Cadmium	ND		0,00200	1	09/16/2024 16:42	WG2359571	
Chromium	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Copper	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Lead	ND		0.00500	1	09/16/2024 16:42	WG2359571	
Nickel	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Selenium	ND		0.0100	1	09/16/2024 16:42	WG2359571	
Silver	ND		0.00500	1	09/16/2024 16:42	WG2359571	
Titanium	ND		0.0500	1	09/16/2024 16:42	WG2359571	
7inc	ND		0.0500	1	09/16/2024 16:42	WG2359571	





















QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Gravimetric Analysis by Method 2540C

(MB) R4117108-1 09/07/2	24 14:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/I
Total Dissolved Solids	U		25.0	25.0



L1773799-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1773799-01	09/07/24 14:02 • 1	(DUP) R4117108-3	09/07/24 14:02
------------------	--------------------	------------------	----------------

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/I		%		%
Total Dissolved Solids	1690	1670	1	1.31		10



L1773801-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1773801-01 09/07/24 14:02 • (DUP) R4117108-4 09/07/24 14:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
Total Dissolved Solids	476	473	1	0.632		10



Sc

Laboratory Control Sample (LCS)

(LCS) R4117108-2 09/07/24 14:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/I	%	%	
Total Dissolved Solids	2410	2530	105	85.0-115	

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Gravimetric Analysis by Method 2540D

MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mg/l	(MB) R4118212-1 O	9/10/24 06:48			
		MB Result	MB Qualifier	MB MDL	MB RDL
	Analyte	mg/l		mg/l	mg/l
Suspended Solids U 2,50 2.50	Suspended Solids	U		2.50	2.50





L1773907-01 Original Sample (OS) • Duplicate (DUP)

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	165	155	1	6.25		10





L1774383-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1774383-01 09/10/24 06:48 • (DUP) R4118212-4 09/10/24 06:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	606	623	1	2.80		10





Laboratory Control Sample (LCS)

ACCOUNT:

Enviro-Ag Engineering

` '
(LCS) R4118212-2 09/10/24 06:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Suspended Solids	879	849	96.6	85.0-115	

PROJECT: SDG: DATE/TIME:

L1773907

PAGE:

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 1664A

 (MB) R4117754-1
 09/10/24 12:57

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 Analyte
 mg/l
 mg/l
 mg/l

 0il & Grease (Hexane Extr)
 U
 1.16
 5.00

Тс





(LCS) R4117754-2 09/10/2	C5) K411/754-2 09/10/24 12:57 • (LCSD) K411/754-3 09/10/24 12:57														
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits					
Analyte	mg/I	mg/l	mg/I	%	%	%			%	%					
Oil & Grease (Hexane Extr)	40_0	37.6	37.2	94.0	93.0	78.0-114			1.07	20					







(OS) L1773880-01 09/10/	24 12:57 • (MS)	R4117754-4 09	/10/24 12:57 •	(MSD) R411775	4-5 09/10/24	12:57						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	mg/l	%	%		%			%	%
Oil & Grease (Hexane Extr)	40.0	6.38	32.6	38.2	65.4	79.5	1	78.0-114	J6		15.9	18







QUALITY CONTROL SUMMARY L1773907-01

Method Blank (MR)

Wet Chemistry by Method 2320B

Method Blan	K (MB)					
(MB) R4117294-1 C	9/09/24 12:06		_			
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/l		mg/I	mg/l		
Alkalinity	U		20.0	20.0		
1.4772000 02	Outstand Consul	(OC) D	. 19	(DLID)		
	Original Sample					
(OS) L1773809-02	09/09/24 12:06 • (DU	JP) R4117294-3	3 09/09/24	12:06		
	Original Resu	t DUP Result	Dilution	DUP RPD		DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	192	192	1	0.000		20
Laboratory C	ontrol Sample (L	.CS)				
(LCS) R4117294-2	09/09/24 12:06					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limi	ts <u>LCS Qualifi</u>	<u>er</u>
Analyte	mg/l	mg/l	%	%		
Alkalinity	250	242	96.8	90.0-110		

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

(MB) R4115728-1 09/04/24	15:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate	U		0.379	0.500







(LCS) R4115728-2 09/04/2	4 15:34				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate	5.00	5.05	101	90 0-110	







(OS) L1773730-01 09/0	4/24 16:45 • (MS)	R4115728-3 09	9/04/24 18:11 •	(MSD) R411572	8-4 09/04/2	4 18:23						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	5.00	ND	5.23	5.26	105	105	1	90.0-110			0.597	20





QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 300,0

(MB) R4118157-1 09/10	/24 12:36			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.325	0.800
Sulfate	U		0,211	0.700







Laboratory Control Sample (LCS)

(LCS) R4118157-2 09/10	0/24 12:48				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	5.00	5.11	102	90_0-110	
Sulfate	5,00	5.14	103	90_0-110	
Sulfate	5,00	5.14	103	90_0-110	





⁷GI

L1774873-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774873-01 09/10/2	(OS) L1774873-01 09/10/24 15:11 • (MS) R4118157-3 09/10/24 16:58 • (MSD) R4118157-4 09/10/24 17:10												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/I	mg/l	mg/I	%	%		%			%	%	
Sulfate	5.00	ND	5.13	5_16	103	103	1	90.0-110			0.550	20	



Sc

L1774873-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774873-01 09/10/2	(OS) L1774873-01 09/10/24 15:47 • (MS) R4118157-5 09/10/24 17:21 • (MSD) R4118157-6 09/10/24 17:33												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Chloride	250	273	502	501	91.3	91.2	1	90.0-110			0.0459	20	

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 300.0

(MB) R4118306-1 09/11/24 09:14											
MB Result MB Qualifier MB MDL MB											
Analyte	mg/l		mg/l	mg/l							
Fluoride	U		0.0947	0.500							





Laboratory Control Sample (LCS)

(LCS) R4118306-2 C	9/11/24 09:26				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Fluoride	5.00	4.95	99.0	90.0-110	





L1775284-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775284-01 09/11/24 10:14 • (MS) R4118306-3 09/11/24 10:25 • (MSD) R4118306-4 09/11/24 10:37												
Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD											RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/I	%	%		%			%	%
Fluoride	5.00	ND	5.09	5.10	95,7	96.0	1	90.0-110			0.298	20





QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

(MB) R4117351-1 09/09/24 16:23											
	MB Result	MB Qualifier	MB MDL	MB RDL							
Analyte	mg/I		mg/l	mg/l							
Chromium, Hexavalent	U		0.00200	0,00300							



Laboratory Control Sample (LCS)

Wet Chemistry by Method 3500Cr-B

(LCS) R4117351-2 09/09/24 16:23										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/I	mg/l	%	%						
Chromium, Hexavalent	0.200	0.194	97.2	85.0-115						







(OS) L1773907-01 09/09/24 16:23 • (MS) R4117351-3 09/09/24 16:23 • (MSD) R4117351-4 09/09/24 16:23												
Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD											RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chromium, Hexavalent	0.200	ND	0.154	0.155	77.1	77.5	1	85.0-115	J6	J6	0.555	20







QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 351,2

(MB) R4117690-2 09/10/24 11:11 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mg/l Kjeldahl Nitrogen, TKN U 0.140 0.250







Laboratory Control Sample (LCS)

(LCS) R411/690-1 09/10/24	10:57				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kieldahl Nitrogen, TKN	4.00	4 14	104	90.0-110	





L1774505-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774505-02 09/10/24 11:15 • (MS) R4117690-3 09/10/24 11:16 • (MSD) R4117690-4 09/10/24 11:18												
Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD											RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	4.00	0.448	0.816	0.643	9.20	4.88	1	90.0-110	<u>J6</u>	<u>J3 J6</u>	23.7	20







PROJECT:

SDG: L1773907

DATE/TIME: 09/17/24 09:07

PAGE: 16 of 38

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 360.1

L1773907-01

L1773907-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1773907-01 09/06/24 09:02 • (DUP) R4116288-1 09/06/24 09:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
Dissolved Oxygen	8.90	8.75	1	1.70		10



















QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 4500Cl G-2011

(MB) R4117333-1 09/09	/24 16:01			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chlorine,residual	U		0.0260	0.100



L1773764-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1773764-01 09/09/24 16:02 • (DUP) R4117333-4 09/09/24 16:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chlorine,residual	0.158	0.163	1	3.12		20



Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4117333-2 09/09/24 16:01 • (LCSD) R4117333-3 09/09/24 16:01

` '		,								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	%	%	%			%	%
Chlorine,residual	1.00	1.04	1.04	104	104	85.0-115			0.0962	20







QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

(MB) R4117864-1 09/10/24 1	5:08			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Cyanide	U		0.00430	0,0100







Wet Chemistry by Method 4500CN-E

(LCS) R4117864-2 09/10/24	1 15:08				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/I	mg/l	%	%	
Cvanide	0.100	0.0994	99.4	85 0-115	

(OS) L1774055-01 09/10/24 15:08 • (MS) R4117864-3 09/10/24 15:08 • (MSD) R4117864-4 09/10/24 15:08







(03) 2177 +033 01 03/10/	2+15.00 - (1415)	111100+5 05	10124 15.00 * 1	(14130) 1(411700-	7 7 03/10/24 1	5.00						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cvanide	0.100	ND	0.0852	0.0629	85:2	62.9	1	85.0-115		J3 J6	30.1	20







L1774309-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774309-01 09/10/	24 15:08 • (MS) I	R4117864-5 09	/10/24 1 5:08 •	(MSD) R411786	4-6 09/10/2	4 15:08						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	ND	0.108	0.105	108	105	1	85,0-115			2.00	20

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 4500P-E

(MB) R4117172-1 09/09	9/24 12:20			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Phosphorus,Total	U		0.0152	0,0500







(LCS) R4117172-2 09/09	/24 12:20				
	Spike Amount	LCS Result	LCS Rec	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Phosphorus, Total	0.500	0.507	101	80.0-120	







(OS) L1772524-02 09/0	09/24 12:20 • (MS	R4117172-3 09	9/09/24 12:22	• (MSD) R41171	72-4 09/09/2	24 12:22						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus,Total	0.500	4.40	4.90	4.97	99,1	113	10	80.0-120			1.40	20





L1772954-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772954-02 09/0	09/24 12:21 • (MS)	R4117172-5 09	/09/24 12:22	• (MSD) R411717	2-6 09/09/24	4 12:22						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus,Total	0.500	ND	0.534	0.529	103	102	1	80.0-120			0.868	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 5210 B-2016

L1773907-01

Method Blank (MB)

(MB) R4117143-1 09	9/09/24 10:50						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/I		mg/l	mg/l			
BOD	U		0.200	0.200			

L1773584-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1773584-01 09/09/24 10:58 • (DUP) R4117143-3 09/09/24 11:20

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
BOD	7.20	7.16	1	0.557		20

Laboratory Control Sample (LCS)

(LCS) R4117143-2 09/09/24 10:55

(,					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/I	%	%	
BOD	198	205	103	85-115	



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QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 5210 B-2016

Wicthod Didnik	(IVID)										
(MB) R4117192-1 09	/09/24 12:04										
	MB Result	MB Qualifier	MB MDL	MB RDL							
Analyte	mg/l		mg/l	mg/l							
CBOD	U		0.200	0.200							
L1773891-02 C	Driginal Sample	e (OS) • Duc	olicate ([DUP)							
(OS) L1773891-02 (
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/l	mg/l		%		%					
CBOD	1.50	1,27	1	16,6		20					
L1773965-01 C	Original Sample	(OS) • Dur	olicate (F	DUP)							
(OS) L1773965-01 C											
(00) 211 / 0000 01 0	,	,				DUP RPD					
	Original Resu	lt DUP Result	Dilution	DUP RPD	DUP Qualifier	Limits					

Laboratory Control Sample (LCS)

mg/l

1.32

mg/l

1.35

%

2.25

Analyte

CBOD

(LCS) R4117192-2 09/0	09/24 12:09				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
CBOD	198	203	102	85-115	

%

20

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 5220D

(MB) R411/332-1 09/09/24	15:52			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
COD	U		16.1	35.0







(LCS) R4117332-2 09/09/	24 15:52				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/I	mg/l	%	%	
COD	500	512	102	80.0-120	







(OS) L1773638-01 09/09	9/24 15:52 • (MS)	R4117332-3 09	9/09/24 15:52	• (MSD) R41173	32-4 09/09/2	24 15:52						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
COD	500	82,9	552	571	93.8	97.5	1	80,0-120			3.36	20







L1774311-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774311-01 09/09/24 15:52 • (MS) R4117332-5 09/09/24 15:52 • (MSD) R4117332-6 09/09/24 15:52												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
COD	500	62.0	558	575	99.2	103	1	80.0-120			2.96	20

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Wet Chemistry by Method 5310C

(MB) R4115842-1 09/04/24 18:38 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mg/l TOC (Total Organic Carbon) U 0.270 0.700









(LCS) R4115842-6 09/05/24 10:35									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/I	mg/I	%	%					
TOC (Total Organic Carbon)	10.0	10.6	106	90.0-110					







L1773350-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L17/3350-01 09/04/2	24 22:05 • (MS)	R4115842-2 0	9/04/24 20:18	• (MSD) R41158	342 - 3 09/04/2	24 20:47						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	9.87	18.6	20.1	87.6	102	1	80.0-120			7.39	20





L1773350-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773350-02												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec, Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	7.46	17.9	18.2	105	108	1	80.0-120			1.77	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1773907-01

L1771621-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1771621-04 09/10/24 09:06 • (DUP) R4117626-2 09/10/24 09:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	SU		%		%
pH	8.33	8.31	1	0.240		20









Sample Narrative: OS: 8.33 at 20.7C

DUP: 8,31 at 20,3C

Laboratory Control Sample (LCS)

(LCS) R4117626-1 09/10/24 09:06

(= + -) +2	-105.00				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	Su	Sü	%	%	
рH	6.00	5.97	99.5	99.0-101	









Sample Narrative:

LCS: 5.97 at 22.5C



QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

(MB) R4117329-1 09/06/24 17:17 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mg/l Ammonia Nitrogen U 0.0280 0.100





Laboratory Control Sample (LCS)

// CS/ P/117229 2 09/06/24 17:10

Wet Chemistry by Method SM4500NH3H

(LCS) (C+11/323-2 03/00/2	.4 17.13				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	5.00	5.00	100	80.0-120	











(OS) L1773620-02 ()9/06/24 17:31 • (MS)	R4117329-3 09	9/06/24 17:21	• (MSD) R411732	9-4 09/06/2	24 17:23						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	1.45	6.36	6.36	98.2	98.2	1	80.0-120			0.000	20







L1773651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773651-01 09/06/24 17:38 • (MS) R4117329-5 09/06/24 17:24 • (MSD) R4117329-6 09/06/24 17:26

	Spike Amount	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	0.185	5.07	5.08	97.7	97.9	1	80.0-120			0.197	20

WG2356593 Mercury by Method 245.1

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

(MB) R4116836-1 09/07	7/24 12:12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	U		0,000100	0.000200









(LCS) R4116836-2 09/07/2	4 12:15				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Mercury	0.00300	0.00341	114	95 O_115	







(05) [17/3/67-01 09/07/2	4 12:17 • (MS) R	4116836-4 09/	0//24 12:22 • (MSD) R4116836	5-5 09/07/24 1	2:25						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00313	0.00343	104	114	1	70.0-130			9.21	20





L1773903-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(03) 11/73903-01 09/07/2	OS) E1773903-01 09/07/24 12:27 • (MS) R4116836-6 09/07/24 12:30 • (MSD) R4116836-7 09/07/24 12:32											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00332	0.00344	111	115	1	70.0-130			3.50	20

QUALITY CONTROL SUMMARY

L1773907-01

Method Blank (MB)

Metals (ICP) by Method 200.7

(MB) R412040 1 -1 O	9/16/24 16:10				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Numinum	U		0.0592	0.200	
ntimony	U		0.00398	0.0100	
rsenic	U		0.00645	0.0100	
arium	U		0.000795	0.00500	
eryllium	U		0.000401	0.00200	
admium	U		0.000552	0.00200	
hromium	U		0.00163	0.0100	
opper	U		0.00226	0.0100	
ad	U		0.00227	0.00500	
ckel	U		0.00182	0.0100	
elenium	U		0.00616	0,0100	
lver	U		0.00131	0.00500	
tanium	U		0.00437	0.0500	
nc	U		0.00578	0.0500	
aboratory Co	ntrol Sample (L	_CS)			

(LCS) R4120401-2 09/16/24 16:12

(LC3) K4120401-2 09/16/24	4 10:12				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Aluminum	10.0	9.87	98.7	85.0-115	
Antimony	1_00	0.942	94.2	85.0-115	
Arsenic	1.00	0.962	96.2	85.0-115	
Barium	1_00	0.982	98.2	85.0-115	
Beryllium	1.00	0.976	97.6	85.0-115	
Cadmium	1.00	0.979	97.9	85.0-115	
Chromium	1.00	0.958	95.8	85.0-115	
Copper	1.00	0.989	98.9	85 0-115	
Lead	1.00	0.951	95.1	85.0-115	
Nickel	1.00	0.934	93.4	85_0-115	
Selenium	1.00	0.950	95.0	85.0-115	
Silver	0.200	0.198	99.0	85.0-115	
Titanium	1.00	0.944	94.4	85.0-115	
Zinc	1.00	0.945	94.5	85.0-115	

QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

L1773907-01

L1773802-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773802-02 09	9/16/24 16:14 • (MS) R4120	0401-4 09/16/24 16:17 • (MS)	D) R4120401-5 09/16/24 16:19
(00) [1//0002-02 00	// 10/ 27 10.14 • (IVIS) N412(J401-4 U3/10/24 I0.1/ • IIVI3	DIR4120401-3 03/16/24 16 19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Aluminum	10.0	ND	9.93	10.1	99.3	101	1	70.0-130			1.86	20
Antimony	1.00	ND	0.950	0.962	95.0	96.2	1	70.0-130			1.28	20
Arsenic	1.00	ND	0,980	0.998	98.0	99.8	1	70.0-130			1.84	20
Barium	1,00	ND	0,986	1.01	98.6	101	1	70.0-130			1.94	20
Beryllium	1.00	ND	0,979	0.999	97.9	99.9	1	70.0-130			1.93	20
Cadmium	1.00	ND	0.986	0,998	98.6	99.8	1	70.0-130			1.27	20
Chromium	1.00	ND	0_975	0.999	97.5	99.9	1	70.0-130			2.37	20
Copper	1.00	ND	0.993	1.01	99_3	101	1	70.0-130			1.60	20
_ead	1.00	ND	0.959	0.970	95.9	97.0	81	70.0 -1 30			1.16	20
Nickel	1.00	ND	0.936	0.946	93.6	94,6	1	70.0-130			1.03	20
Selenium	1.00	ND	0.957	0.967	95.7	96.7	.1	70.0-130			1.07	20
ilver	0_200	ND	0.199	0.202	99.4	101	1	70.0-130			1.46	20
itanium	1.00	ND	0.948	0.963	94.8	96.3	1	70.0-130			1.66	20
linc	1.00	ND	0.958	0.979	95.8	97.9	1	70.0-130			2.23	20



(OS) L1773803-01 09/16/24 16:20 • (MS) R4120401-6 09/16/24 16:22 • (MSD) R4120401-7 09/16/24 16:24

	, ,													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%		
Aluminum	10.0	ND	9.69	9.69	96.9	96.9	1	70.0-130			0.0303	20		
Antimony	1.00	ND	0.960	0.963	96.0	96.3	1	70.0-130			0.301	20		
Arsenic	1.00	0_0122	1.03	1.03	102	102	1	70.0-130			0.0639	20		
Barium	1.00	0.255	1.20	1.20	94.7	94.7	1	70.0-130			0.0648	20		
Beryllium	1.00	ND	0.972	0.973	97.2	97.3	T	70:0-130			0.0836	20		
Cadmium	1.00	ND	0.990	0.992	99.0	99.2	1	70.0-130			0.171	20		
Chromium	1.00	ND	0.935	0.940	93.3	93.8	1	70.0-130			0.515	20		
Copper	1.00	ND	0.968	0.969	96.2	96.2	1	70.0-130			0.0662	20		
Lead	1.00	ND	0.952	0.958	95.0	95.5	10	70.0-130			0.569	20		
Nickel	1.00	ND	0.968	0.962	96.5	95.9	1	70.0-130			0.564	20		
Selenium	1.00	ND	1.00	1.00	100	100	*	70.0-130			0.109	20		
Silver	0.200	ND	0.203	0.205	102	102	1	70.0-130			0.584	20		
Titanium	1.00	ND	0,956	0.950	95.6	95.0	1	70,0-130			0.576	20		
Zinc	1.00	ND	0,958	0.956	93.8	93.7	1	70.0-130			0.176	20		





















GLOSSARY OF TERMS

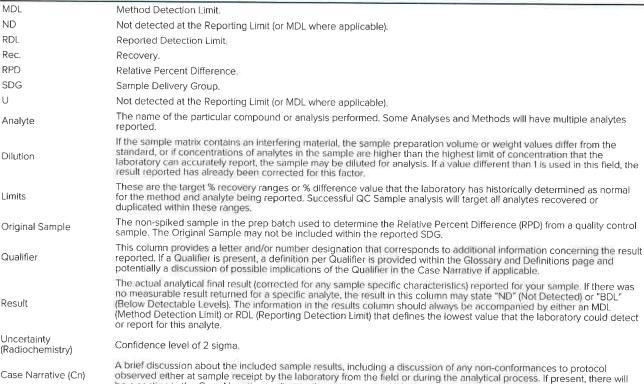
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.



Abbreviations and Definitions





GI

Al

be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

Quality Control Summary (Qc)

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.

Sample Chain of Custody (Sc)

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

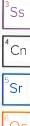
Sample Results (Sr)

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

Sample Summary (Ss)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
Т8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ^I	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
ldaho	E0000NT	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	WashIngton	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461,02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

¹ Drinking Water ² Underground Storage Tanks ³ Aqualic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable



















 $^{^{\}star}$ Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater WW - Wastewater	.cr.CR6,CR3,Cu,Pb,Ni,Se,Ag,Ti,Zn, Hg	Ag,Ti,Zn, Hg		0. ±	PH	Temp Other		0000	Sar COC Seal COC Signe Bottles a	Sample Receipt Checklist COC Seal Present/Intact: NP COC Signed/Accurate: Bottles arrive intact:	hecklist X E: NP X X
DW - Drinking Water OT - Other	Tracking #		72.					0 5	Sufficien VOR Zero	Sufficient volume sent: If Applicab VOA Zero Headspace:	il ble
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Collected Collected Collected First Circle	Report to: Jourdan Mullin		Email To: e	mullin@envirozg.com;rg m;mshoemaker@enviroz	sorge@enviro ig.com;jmullin	7	DEVELOPE.	F-NoPr	sən q		190 Allen, TX 75013	and the state of t
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F-Filter	z	111	Day / (Rad Only) ay (Rad Only)	Date Results Ne		T	I POST III	AO med	hem ani		Prelogin: P1097478 PM: 3666 - Deretty P Robe PB:	ST.
Fried	Sample ID		Depth	Date			OteV	201/4	OteV			# (lab only)
Remarks: Field TEMP F-Filter B-Blosssay B-Blosssay Sample sequent Chrombin SeAg.TLZn, Hg F-Filter B-Blosssay Sample sequent Chrombin SeAg.TLZn, Hg F-Filter B-Filter B-Filter Sample sequent Chrombin SeAg.TLZn, Hg F-Filter B-Filter B-Filter B-Filter B-Filter B-Filter Sample sequent Chrombin Seag.TLZn, Hg F-Filter B-Filter B-Filter B-Filter B-Filter B-Filter Sample sequent Chrombin Seag.TLZn, Hg B-Filter B-Fi	Scho ber Triantin	Lab		46 PM	_	1	×	1	×		9	
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Samples returned via: UPS _ FedEx _ Counier	F - Filter B - Bioassay	narks: Field TEMP Metals, Al,Sb,As.	Ba,Be,Cd,C	2r,CR6,CR3,Cu,Pb,	Ni,Se,Ag,T	,Zn, Hg			pH Flow	Temp	Sample Receipt Checklist COC Seal Present/Intact: NP COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	
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	Relinquished by : (Signature)	Date:	Time:	Received fo	or lab by: (Sig	nature)		Dat	ü	Time:		ition: / OK

Pace
ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receipt

□Dallas □Ft Worth	□Corpus Christi □Austin
Client Name: ENVIN Ag Phaintenny Projec Courier: FedEX UPS USPS Client LSO PACE Other:	t Work order (place label):
Courier: FedEX UPS USPS Client LSO PACE Other:	1177 2007
Tracking #:	<u>[1773907</u>
Custody Seal on Cooler/Box: Yes No	
Received on ice: Wet Blue No ice Receiving Lab 1 Thermometer Used:	OC: 4-3 (Recorded) to-3 (Correction Factor) 4-6 (Actual
Receiving Lab 2 Thermometer Used: Cooler Temp	O°C: (Recorded) (Correction Factor) (Actual
	(Notice)
Chain of Custody relinquished	Yes & No 🗆
Sampler name & signature on COC	Yes No p
Short HT analyses (<72 hrs)	Yes of No 🗆
Temperature should be above freezing to 6°C unless collected same	day as receipt in which evidence of cooling is acceptable
	and as the state of the state o
Triage Person: Ab Date: MW Date: A MW Date:	Yes Z. No 🗆
Correct Container used	
	Yes / No 🗆
Container Intact	Yes 4 No 🗆
Sample pH Acceptable (14000)	Yes / D NO D NA D
Residual Chlorine Present 118/10	Yes D No p NA D
CI Strips: 148UV Sulfide Present	()
Lead Acetate Strips: M&D	Yes □ No 🗗 NA □
Are soil samples (volatiles, TPH) received in 5035A Kits	Yes D NO D NA D
(not applicable to TCLP VOA or PST Program TPH) Unpreserved 5035A soil frozen within 48 hrs	V N
Headspace in VOA (>6mm)	Yes No NA 🖊
	Yes D No D NA
Project sampled in USDA Regulated Area outside of Texas	Yes D No D NA Z
State Sampled:	
Non-Conformance(s):	Yes to No 🗆
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abeling Person (if different than log-in):	_ Date:
altrax ID: 48806	Page 1 of 1

Page 1 of 1

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1	F	7 ac	ce	
			. 15	

DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

	Sample	Condition	Upon	Receipt
--	--------	-----------	------	---------

□Dallas □Ft Worth	□Corpus Christi □Austin
Client Name: Enviro Ag Engineening Project	
Courier: FedEX UPS USPS Client LSO PACE Other:	
Tracking #:	[1773907
Custody Seal on Cooler/Box: Yes 🗆 No 🕇	
Received on ice: Wet Blue D No ice D	11.0
Receiving Lab 1 Thermometer Used: K S Cooler Temp	o°C: 4-3 (Recorded) to-3 (Correction Factor) 4-6 (Actual)
Receiving Lab 2 Thermometer Used: Cooler Temp	°C: (Recorded) (Correction Factor) (Actual)
Chain of Custody relinquished	Yes No 🗆
Sampler name & signature on COC	Yes D No of
Short HT analyses (<72 hrs)	Yes o No 🗆
Temperature should be above freezing to 6°C unless collected same	day as receipt in which evidence of cooling is acceptable.
Triage Person: An Date: 9/4/W	/
Sufficient Volume received	Yes to, No 🗆
Correct Container used	Yes /J, No 🗆
Container Intact	Yes A No 🗆
Sample pH Acceptable Lumon	Yes A No NA NA
pH Strips: (140)00 Residual Chlorine Present	Vac T. No. of NA. T.
Cl Strips:	Yes O NO NA O
Sulfide Present	Yes 🗆 No 💋 NA 🗆
Lead Acetate Strips: M&D	· ·
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes 🗆 No 🗆 NA
Unpreserved 5035A soil frozen within 48 hrs	Yes D NO NA
Headspace in VOA (>6mm)	Yes 🗆 No 🗆 NA 🗡
Project sampled in USDA Regulated Area outside of	Yes □ No □ NA 🕏
Texas State Sampled:	/
Non-Conformance(s):	Yes & No a
10	103 13 110 11
Login Person: Date:	
Labeling Person (if different than log-in):	Date:
	7.6 (2) (3) (4) (4) (4) (4) (4) (4)

Qualtrax ID 48806

Fed Ex tracking #	Gun ID	Temperature
Fed Ex tracking # UN 4027552 4104 4027590 4104 4027585 4104 4027585 4104 402752 4104 402750 4104 402750 4104 402750 4104 402750 4104 402750	Gun ID	Temperature 4510.3=4.8 2.3+0.3=2.4 1.8+0.3=2.1 7.410.3=0.7 0.410.3=0.5 1.010.3=1.3 0.110.3:0.4

Date

Name



Pace Analytical* ANALYTICAL REPORT

September 06, 2024





Ss

'Cn

Sr

'Qc

GI

ΑI

Sc

Enviro-Ag Engineering

Sample Delivery Group:

L1772137

Samples Received:

08/28/2024

Project Number:

Description:

Pollutant Permit

Report To:

Jourdan Mullin

3404 Airway Blvd.

Amarillo, TX 79118

Entire Report Reviewed By: Douth P Roberts

Dorothy P Roberts Project Manager

Results relate only to the items lested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory slandard operating procedures ENV-SOP-MTIL-0067 and ENV-SOP-MTIL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Sc: Sample Chain of Custody

32

SAMPLE SUMMARY

Collected by

08/30/24 10:09

09/03/24 13:16

TDM

Allen, TX

1

Collected date/time Received date/time 08/28/24 09:18 08/28/24 11:40

SCHREIBER	IRRIGATION	WEEK 1 L	1772137-01	\\\\\
JOHNLIDEN			. 1 / / Z 13 / " U 1	V V V V

Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Calculated Results	WG2352982	1	09/04/24 14:45	09/04/24 14:45	EIG	Allen, TX
Calculated Results	WG2353543	1	09/03/24 13:16	09/03/24 13:16	TDM	Allen, TX
Gravimetric Analysis by Method 2540C	WG2352885	1	08/29/24 11:52	08/29/24 13:13	TOO	Allen, TX
Gravimetric Analysis by Method 2540D	WG2355186	:15	09/03/24 10:54	09/03/24 14:00	QQT	Allen, TX
Wet Chemistry by Method 1664A	WG2355577	1	09/04/24 14:21	09/04/24 18:01	DAL	Mt. Juliet, TN
Wet Chemistry by Method 2320B	WG2355069	10	09/03/24 09:10	09/03/24 09:10	SEN	Allen, TX
Wet Chemistry by Method 300.0	WG2352080	1	08/28/24 17:37	08/28/24 17:37	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2352080	1	08/28/24 19:23	08/28/24 19:23	SMC	Allen, TX
Wet Chemistry by Method 300,0	WG2352080	81	08/28/24 19:35	08/28/24 19:35	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2355469	-4	09/04/24 13:59	09/04/24 13:59	EIG	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2353494	247	08/30/24 15:53	08/30/24 15:53	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2355106	1	09/03/24 12:14	09/04/24 14:45	EIG	Allen, TX
Wet Chemistry by Method 360.1	WG2353479	্ৰ	08/30/24 08:46	08/30/24 08:46	JBS	Allen, TX
Wet Chemistry by Method 4500Cl G-2011	WG2350713	4	08/31/24 09:29	08/31/24 09:29	ARV	Mt, Juliet, TN
Wet Chemistry by Method 4500CN-E	WG2352739	4.	08/29/24 10:00	08/29/24 16:00	KCM	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2352739	-1	08/29/24 16:00	08/29/24 16:00	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2352948	10	08/30/24 17:00	08/30/24 17:00	SMC	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2351991	1	08/28/24 14:42	09/02/24 10:43	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2351993	1	08/28/24 16:03	09/02/24 12:10	JBS	Allen, TX
Wet Chemistry by Method 5220D	WG2355070	1	09/03/24 10:32	09/03/24 16:11	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2353510	1.	08/30/24 16:26	08/30/24 16:26	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2353456	1	08/30/24 08:37	08/30/24 08:37	SEN	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2352982	1	08/29/24 16:51	08/29/24 16:51	EIG	Allen, TX
Mercury by Method 245.1	WG2353457	1	08/30/24 10:40	08/30/24 16:52	SKW	Allen, TX

WG2353543

























Metals (ICP) by Method 200.7

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.





















Dorothy P Roberts

Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample IDProject Sample IDMethodL1772137-01SCHREIBER IRRIGATION WEEK 13500Cr-B

SCHREIBER IRRIGATION WEEK 1 Collected date/time: 08/28/24 09:18

SAMPLE RESULTS - 01

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium, Trivalent	ND		0.00300	1	09/03/2024 13:16	WG2353543
Organic Nitrogen	5.09		0.100	1	09/04/2024 14:45	WG2352982





Gravimetric Analysis by Method 2540C

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Total Dissolved Solids	3720		500	1	08/29/2024 13:13	<u>WG2352885</u>





Ss

Gravimetric Analysis by Method 2540D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	132		25.0	1	09/03/2024 14:00	WG2355186





Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	09/04/2024 18:01	WG2355577





Wet Chemistry by Method 2320B

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Alkalinity	990		20.0	1	09/03/2024 09:10	WG2355069

Sc

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chloride	1520		0.800	81)	08/28/2024 19:35	WG2352080
Fluoride	ND		0.500	1	09/04/2024 13:59	WG2355469
Nitrate	1.89	<u>J6</u>	0.500	4	08/28/2024 17:37	WG2352080
Sulfate	156		0.700	1	08/28/2024 19:23	WG2352080

Wet Chemistry by Method 3500Cr-B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium,Hexavalent	ND		0.00300	1	08/30/2024 15:53	WG2353494

Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	7.43		0.250	1	09/04/2024 14:45	WG2355106

Wet Chemistry by Method 360.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Oxygen	8.56	<u>T8</u>	1	1	08/30/2024 08:46	WG2353479

Wet Chemistry by Method 4500CI G-2011

7	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	ND	<u>T8</u>	0.100	1	08/31/2024 09:29	WG2350713

SCHREIBER IRRIGATION WEEK 1 Collected date/time: 08/28/24 09:18

SAMPLE RESULTS - 01

Wet Chemistry by Method 4500CN-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	08/29/2024 16:00	WG2352739



Wet Chemistry by Method 4500CN-G

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide,amenable	ND		0.0100	1	08/29/2024 16:00	WG2352739



Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Phosphorus, Total	7.46		0.500	10	08/30/2024 17:00	WG2352948



Wet Chemistry by Method 5210 B-2016

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
BOD	ND	<u>J-</u>	60.0	1	09/02/2024 10:43	WG2351991
CBOD	ND		60.0	1	09/02/2024 12:10	WG2351993



Wet Chemistry by Method 5220D

	Result	Qualifier F	DL Dilut	ion Analysis	Batch
Analyte	mg/l	г	ng/l	date / time	
COD	240	- 3	5.0 1	09/03/2024 16:11	WG2355070



Al

Wet Chemistry by Method 5310C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	26.4		0.700	1	08/30/2024 16:26	WG2353510

Wet Chemistry by Method SM 4500-H+B

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	su			date / time	
рН	8.77	<u>T8</u>	34	08/30/2024 08:37	WG2353456

Sample Narrative:

L1772137-01 WG2353456: 8,77 at 20,4C

Wet Chemistry by Method SM4500NH3H

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Ammonia Nitrogen	2.34		0.100	1	08/29/2024 16:51	WG2352982	

Mercury by Method 245.1

·	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	08/30/2024 16:52	WG2353457

SCHREIBER IRRIGATION WEEK 1

SAMPLE RESULTS - 01

Collected date/time: 08/28/24 09:18 Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Aluminum	0.628		0.500	1	09/03/2024 13:16	WG2353543
Antimony	ND		0.0250	1	09/03/2024 13:16	WG2353543
Arsenic	ND		0.0100	1	09/03/2024 13:16	WG2353543
Barlum	0.0194		0.0100	1	09/03/2024 13:16	WG2353543
Beryllium	ND		0.00100	1	09/03/2024 13:16	WG2353543
Cadmium	ND		0.00500	3	09/03/2024 13:16	WG2353543
Chromium	ND		0.00700	1	09/03/2024 13:16	WG2353543
Copper	ND		0.0200	1	09/03/2024 13:16	WG2353543
ead	ND		0.0100	.1	09/03/2024 13:16	WG2353543
lickel	ND		0.0100	1	09/03/2024 13:16	WG2353543
Selenium	ND		0.0200	1	09/03/2024 13:16	WG2353543
Silver	ND		0.00500	1	09/03/2024 13:16	WG2353543
hallium	ND		0.0200	9	09/03/2024 13:16	WG2353543
Zinc	ND		0.0250	1	09/03/2024 13:16	WG2353543





















QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540C

Method Blank (MB)

WG2352885

(IVID) R4113931-1 U6/29/24 13:13	0.13			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	∥/gш		mg/l	
Total Dissolved Solids	ם		25.0	

L1771461-02 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	10
	DUP Qualifier	%	
:13	Dilution DUP RPD	%	4.80
8/29/24 13	Dilution		-
34113931-3 0	DUP Result	∥gm	4050
9/24 13:13 • (DUP) F	Original Result DUP Result	l/gm	3860
(OS) L1771461-02 08/29/24 13:13 • (DUP) R4113931-3 08/29/24 13:13		Analyte	Total Dissolved Solids

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SS

L1771612-01 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	10
	DUP Qualifier		
13	DUP RPD	%	3.02
1/29/24 13:	Dilution		-
4113931-4 08	DUP Result	l/ɓw	1730
/24 13:13 • (DUP) R	Original Result DUP Result Dilution	∥gm	1780
(OS) L1771612-01 O8/29/24 13:13 • (DUP) R4113931-4 08/29/24 13:13		Analyte	Total Dissolved Solids
	84		

Sc

Laboratory Control Sample (LCS)

(LCS) R4113931-2 08/29/24 13:13	29/24 13:13					
	Spike Amount LCS Result	LCS Result	It LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	∥g/l	l/gm	%	%		
Fotal Dissolved Solids	2410	2470	103	85 0-115		

PROJECT:

8 of 39 PAGE:

Gravimetric Analysis by Method 2540D

QUALITY CONTROL SUMMARY

Method Blank (MB)

MB Result			
	MB Qualifier MB MDL	MB RDL	
Tight and a second		l/gm	
Suspended Solids U	2.50	2.50	

L1772133-02 Original Sample (OS) • Duplicate (DUP)

	PO		
	DUP RPD Limits	%	10
	DUP Qualifier		
14:00	DUP RPD	96	7.00
09/03/24	Dilution		_
) R4115852-3 (Original Result DUP Result Dilution DUP RPD	l/gm	41,3
24 14:00 • (DUP)	Original Result	l/gm	44.3
(OS) L1772133-02 09/03/24 14:00 • (DUP) R4115852-3 09/03/24 14:00		Analyte	Suspended Solids

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L1772444-01 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	10
	DUP Qualifier		Σ
4:00	DUP RPD	%	14.1
09/03/241	Dilution DUP RPD		—
R4115852-4	DUP Result	l/gm	132
/03/24 14:00 · (DUP)	Original Result DUP Result	l/gm	152
(OS) L1772444-01 09/03/24 14:00 • (DUP) R4115852-4 09/03/24 14:00		Analyte	Suspended Solids

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Laboratory Control Sample (LCS)

(LCS) R4115852-2 09/03/24 14:00	9/03/24 14:00				
	Spike Amount LCS Result LCS Rec.	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	∥gm	l/gm	%	%	
Suspended Solids	879	858	97.6	85.0-115	

PROJECT:

DATE/TIME: 09/06/24 09:07

WG235577 Wet Chemistry by Method 1664A

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R4115586-1 09/04/24 18:01	24 18:01							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	l/gm		mg/l	mg/l				
Oil & Grease (Hexane Extr)	ח		1.16	2.00				

					RPD Limits	%	20
					LCS Qualifier LCSD Qualifier RPD	%	0.510
			licate (LCSD)		Rec. Rec. Limits	%	78.0-114
MB RDL	mg/l	5.00	ntrol Sample Duplicate (LCSD)		LCS Rec. LCSD Rec.	%	97.8 98.3
MB MDL	l/gm	1.16	oratory Cont	3 09/04/24 18:01	Spike Amount LCS Result LCSD Result	l/gm	39.3
MB Qualifier			(LCS) • Lab	:SD) R4115586-	nt LCS Result	l/gm	39.1
MB Result	l/gm	n	ol Sample (/24 18:01 • (LC	Spike Amou	l/gm	40.0
	Analyte	Oil & Grease (Hexane Extr)	Laboratory Control Sample (LCS) • Laboratory Col	(LCS) R4115586-2 09/04/24 18:01 • (LCSD) R4115586-3 09/04/24 18:01		Analyte	Oil & Grease (Hexane Extr)

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L1772540-02 Original Sample (OS) • Matrix Spike (MS)

	ec. Dilution Rec. Limits MS Qualifier		1 78.0-114 J6
4 18:01	esult MS Re	%	74.0
R4115586-4 09/04/24 18:01	Original Result MS Rec.	l/gm	9.68
	Spike Amount Origi	l/gm l/gm	0.09 0
09/04/24 1	SF	Ē	Extr) 40.0
OS) L1772540-02 09/04/24 18:01 • (MS)		Analyte	Oil & Grease (Hexane Extr)

SDG:

PROJECT:

WG2355069 Wet Chemistry by Method 2320B

QUALITY CONTROL SUMMARY

Method Blank (MB)

MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mg/l Alkalinity U 20.0 20.0	(MB) R4114938-1 09/03/24 09:10	13/24 09:10						
mg/l mg/l mg/l U 20.0 20.0		MB Result	MB Qualifier	MB MDL	MB RDL			
U 20.0 20.0		l/gm		l/gm				
		П		20.0				

		DUP RPD Limits	%	20
(0		RPD DUP Qualifier		0
S) • Duplicate (DUP)	-3 09/03/24 09:10	Original Result DUP Result Dilution DUP RPD	%	1 0.000
nple (OS) • D	• (DUP) R4114938	Result DUP Result	l/gm	207
7-02 Original San	OS) L1772957-02 09/03/24 09:10 • (DUP) R4114938-3 09/03/24 09:10	Original	l/gm	207
L177295	(OS) L17729		Analyte	Alkalinity

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Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	90.0-110
	LCS Rec.	%	0.96
	LCS Result	l/gm	240
09/03/24 09:10	Spike Amount LCS Result LCS Rec.	l/gm	250
(LCS) R4114938-2 09/03/24 09:10		Analyte	Alkalinity

Enviro-Ag Engineering ACCOUNT:

SDG: L1772137

WG2352080 wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R4113217-1 08/28/24 16:02	4 16:02				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	l/gm		l/gm	mg/l	
Chloride	n		0.325	0800	
Nitrate	n		0.379	0,500	
Sulfate	⊃		0.211	0.700	

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Laboratory Control Sample (LCS)

	LCS Qualifier				
	Rec. Limits	%	90.0-110	90.0-110	90,0-110
	LCS Rec.	%	104	7.66	105
	LCS Result	mg/l	5.18	4.99	5.27
8/28/24 16:14	Spike Amount LCS Result	l/gm	2.00	5.00	5.00
(LCS) R4113217-2 08/28/24 16:14		Analyte		Nitrate	Sulfate

L1772137-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

7 • (MS) R4113217-3 08/28/24 19:47 • (MSD) R4113217-4 08/28/24 19:59	Spike Amount Original Result MS Result MSD Result MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits	% % l/bm l/bm l/bm	1.89 3.46 3.48 31.5 31.8 1 90.0-110 J6 J6 0.334 20
113217-3 08/28/24 19:47 • (MSD) R		l/gm	3.46
(OS) L1772137-01 08/28/24 17:37 • (MS) R4113217-3 08/28/24	Spike Amount C	Analyte mg/l п	5,00

L1772137-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	imits		
	RPD Limits	%	20
	RPD	%	0.771
	MSD Qualifier		
	MS Qualifier		
	Dilution Rec. Limits	%	90.0-110
	Dilution		-
20:46	MSD Rec.	%	103
7-6 08/28/24	MS Rec.	%	102
(MSD) R4113217	MSD Result	l/gm	699
28/24 20:11	MS Result	mg/l	664
4113217-5 08/	Original Result	∥g/l	156
OS) L1772137-01 08/28/24 19:23 • (MS) R4113217-5 08/28/24 20:11 • (MSD) R4113217-6 08/28/24 20:46	Spike Amount Original Result MS Result	l/gm	200
(OS) L1772137-01 C		Analyte	Sulfate

L1772137-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Spike Amount	Spike Amount Original Result MS Result	MS Result	MSD Result	MS Rec. %	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
2500		4150	4120	105	104	-	90.0-110			0.685	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 300.0

Method Blank (MB)

(MB) R4115408-1 09/04/24 13:11	14 13:11				
	MB Result	MB Qualifier MB MD	MB MDL	MB RDL	
Analyte	l/gm		l/gm	mg/l	
Fluoride	П		0.0947	0.500	

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	90,0-110
	LCS Rec.	%	104
	LCS Result	∥g/l	5.22
9/04/24 13:23	Spike Amount	l/gm	2.00
(LCS) R4115408-2 09/04/24 13:23		Analyte	Fluoride

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L1772221-01 Original Sample (OS) • Matrix Spike (MS) •	jinal Sample (OS) • Matrix	× Spike (M	2	Spike Dup	latrix Spike Duplicate (MSD)	<u></u>					
(OS) L1772221-01 09/04/24 14:23 • (MS) R4115408-3 09/04/24 13:35 • (MSD) R4115408-4 09/04/24 13:47	14/24 14:23 · (MS) F	२४११५४०८-३ ०९/	'04/24 13:35 •	(MSD) R411540	8-4 09/04/24	. 13:47						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	l/gm	%	%		%			96	%
Fluoride	2.00	699.0	5.59	5.71	98.4	101	—	90.0-110			2.06	20

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PROJECT:

L1772137 SDG:

WG2353494 Wet Chemistry by Method 3500Cr-B

QUALITY CONTROL SUMMARY

Method Blank (MB)

MB Qualifier MB MDL MB RDL rng/l ng/l 0.00200 0.00300	MB) R4114083-1 08/30/24 15:53	MB Result	l/gm	nromium,Hexavalent U
MB RDL mg/l 0.00300				
RDL // 0300		MB MDL	l/gm	0.00200
			E	0

Laboratory Control Sample (LCS)

	Rec. Limits LCS Qualifier	%	85.0-115
	ult LCS Rec.	%	102
30/24 15:53	Spike Amount LCS Result	l/gm /gm	
(LCS) R4114083-2 08/30/24 15:53		Analyte	Chromium, Hexavalent

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L1772221-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	nal Sample ((OS) • Matri:	x Spike (M	IS) • Matrix	Spike Dup	olicate (MSD)						
(OS) L1772221-01 08/30/24 15:53 • (MS) R4114083-3 08/30/24 15:53 • (724 15:53 • (MS) F	२४११४०८३-३ ०८/	/30/24 15:53 •	(MSD) R4114083-4 08/30/24 15:53	33-4 08/30/24	: 15:53						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	∥g/l	mg/l	l/gm	l/gm	%	%		%			%	%
Chromium, Hexavalent	0.200	QN	0.185	0.182	92.3	91.1	Ę	85.0-115			1.39	20

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DATE/TIME: 09/06/24 09:07

SDG: L1772137

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

Method Blank (MB)

(MB) R4115402-1 09/04/24 14:22	′24 14:22					
	MB Result	MB Qualifier MB MDL	MB MDL	MB RDL		
Analyte	∥g/l		mg/l	l/gm		
Kjeldahl Nitrogen, TKN	Þ		0,140	0.250		

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	
	t LCS Rec.	%	0.66
	LCS Result	l/gm	3,96
4/24 14:23	Spike Amount LCS Result	∥g/l	4.00
(LCS) R4115402-2 09/04/7		Analyte	Kjeldahl Nitrogen, TKN

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L1769869-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(03) [1/69869-03 09/	19/04/24 14.20 • (IVIS) F	1)						
	Spike Amount	unt Original Result	MS Result	It MSD Result	MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/вш	l/gm	∥/gш	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	4,00	5.92	14.0	13.0	202	177	-	90.0-110	E 15	E J5	7.41	20

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L1770293-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	(5)		
	RPD Limits	%	20
	RPD	%	2,74
	MSD Qualifier		전
	MS Qualifier		1 5
	Dilution Rec. Limits	%	90.0-110
	Dilution		10
/24 15:08	MSD Rec.	%	153
02-6 09/04	MS Rec.	%	143
 (MSD) R4115402-6 09/04/24 15:08 	MSD Result MS Rec.	l/gm	70.4
3/04/24 15:06	MS Result	l/gm	68.5
44115402-5 US	Spike Amount Original Result MS Result	лg/I	39.9
(24 14:27 • (MS)	Spike Amount	l/gm	20.0
(OS) L1//0283-01		Analyte	Kjeldahl Nitrogen, TKN

09/06/24 09:07 DATE/TIME:

L1772137 SDG:

WG2353479 Wet Chemistry by Method 360,1

QUALITY CONTROL SUMMARY

L1772137-01 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	10
	RPD DUP Qualifier		
OS) L1772137-01 08/30/24 08:46 • (DUP) R4113782-1 08/30/24 08:46	Original Result DUP Result Dilution DUP RPD	%	1 2.31
. • (DUP) R4113782	al Result DUP Resu	l/gm	8.76
01 08/30/24 08:46	Origin	l/gm	8.56
(OS) L1772137-		Analyte	Dissolved Oxygen

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Enviro-Ag Engineering

ACCOUNT:

SDG: L1772137

DATE/TIME: 09/06/24 09:07

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Wet Chemistry by Method 4500Cl G-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

MB RDL 0,100 mg/l MB MDL 0.0260 ∥g/I MB Qualifier MB Result l/g≡ (MB) R4114289-1 08/31/24 09:24 Chlorine, residual Analyte

L1772513-03 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	20
	DUP Qualifier		
9:36	DUP RPD	%	0.000
08/31/24	Dilution		-
R4114289-4	Original Result DUP Result Dilution DUP RPD	mg/l	Q
JS) L1772513-03 08/31/24 09:35 • (DUP) R4114289-4 08/31/24 09:36	Original Result	l/gm	QN
(OS) L1772513-03 08		Analyte	Chlorine, residual

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L1772513-04 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	20
	DUP Qualifier		
96:36	t Dilution DUP RPD	%	0000
08/31/24 (Dilution		-
R4114289-5	DUP Result	l/gm	ND
(24 09:36 · (DUP)	Original Result DUP Result	l/gm	QN
(OS) L1772513-04 08/31/24 09:36 • (DUP) R4114289-5 08/31/24 09:36		Analyte	Chlorine, residual

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	RPD Limits	%	20
	LCSD Qualifier RPD	%	1,31
	LCS Qualifier		
	Rec. Limits	%	85.0-115
	LCSD Rec.	%	92.3
25	LCS Rec.	%	911
3 08/31/24 09:2	It LCSD Result L	mg/l	0.923
SD) R4114289-3	Spike Amount LCS Result	∥g/l	0.911
3/31/24 09:25 • (LC.	Spike Amoun	l/gm	1.00
(LCS) R4114289-2 08/31/24 09:25 • (LCSD) R4114289-3 08/31/24 09:25		Analyte	Chlorine, residual

SDG: L1772137

DATE/TIME: 09/06/24 09:07

Wet Chemistry by Method 4500CN-E

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R4113520-1 08/29/24 16:00	29/24 16:00							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte mg/l	1/6m		l/gm	l/gm				
Cyanide	П		0.00430	0.0100				

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Laboratory Control Sample (LCS)

	Rec. Limits LCS Qualifier	%	85.0-115
	LCS Rec.		96.3
	LCS Result	∥g/l	0.0963
18/29/24 16:00	Spike Amount	l/gm	0.100
(LCS) R4113520-2 0		Analyte	Cyanide

L1771495-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	MSD Qualifier RPD RPD Limits	%	5.31 20
	MS Qualifier		
	Dilution Rec. Limits	%	85.0-115
	Dilution		_
3/24 16:00	MSD Rec.	%	101
520-4 08/29	MS Rec.	%	92'6
0 - (MSD) R4113	MSD Result MS Rec.	l/gm	1010
)8/29/24 16:00	MS Result	l/gm	9560 0
R4113520-3 (Spike Amount Original Resull	l/gm	QN
OS) L1771495-02 08/29/24 16:00 • (MS) R4113520-3 08/29/24 16:00 • (MSD) R4113520-4 08/29/24 16:00	Spike Amount	l/gm	0,100
(OS) L1771495-02 C		Analyte	Cyanide

L1772137-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

21 15/05/80 = 05351119 (2M) - 00.31 15/05/80 10-7515771 (20)	24 16.00 - MAC)	1112E20 E 00/	00.94 40.00	73C17AC (C) 2AA	0,000	410.00						
(00)	1 (SIMI) • (DIS) + 4	V41153220-3 00/	43/44 10:00	0.00 • (MISD) R4115320-6 08/29/24 15:00	7/67/80 9-07	4 10:00						
	Spike Amount	Spike Amount Original Result MS Resu	MS Result	MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	mg/l	mg/l	%	%		%		68 66	96	%
Cyanide	0.100	Q	0.0852	0.0949	85.2	94.9	-	85.0-115			10.8	20

SDG: L1772137

WG2352948 Wet Chemistry by Method 4500P-E

QUALITY CONTROL SUMMARY

Method Blank (MB)

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11 1				
(MB) R4114138-1 08/30/24 17:00	4 17:00				
	MB Result	MB Qualifier MB MDL	MB MDL	MB RDL	
Analyte	l/gm				
Phosphorus, Total	n		0.0152	0.0500	

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits		80.0-120
	LCS Rec.	%	104
	LCS Result	mg/l	0,518
30/24 17:00	Spike Amount	l/gm	0.500
(LCS) R4114138-2 08/3		Analyte	Phosphorus, Total

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LI//2221-01 Original Sample (OS) • Matrix Sp	nai sample ((OS) • Matrix	Spike (M	IS) • Matrix	Spike Dup	olicate (MSL	<u>(</u>						
(OS) L1772221-01 08/30/24 17:01 • (MS) R4114138-3 08/30/24 17:01 • (MSD) R4114138-4 08/30/24 17:01	/24 17:01 • (MS) R	4114138-3 08/3(J/24 17:01 • (N	ASD) R4114138~	4 08/30/24 17	7:01							
	Spike Amount	Spike Amount Original Result MS Result	MS Result	MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD	RPD Limits	
Analyte	l/gm	mg/l	mg/l	l/gm	%	%		%			%	%	
Phosphorus, Total	0.500	QN	0.523	0.525	105	105	-	80.0-120			0.443	20	

PROJECT:

SDG: L1772137

09/06/24 09:07 DATE/TIME:

Wet Chemistry by Method 5210 B-2016

QUALITY CONTROL SUMMARY

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C+.CO +2/20/CO 1-+0C+11+1/(01v1)	2/24 09:43								
	MB Result	MB Qualifier MB MDL	MB MDL	MB RDL					
Analyte	I/g⊞	l/gm		l/gm					
BOD	n			0.200					

L1772082-01 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	20
	DUP Qualifier		
10:46	DUP RPD	%	5.19
9/02/24	Dilution		-
R4114564-3 (DUP Result	l/gm	4.88
09/02/2410:11 • (DUP) R4114564-3 09/02/2410:46	Original Result DUP Result Dilution DUP RPD	l/gm	5.14
(0S) L1772082-01		Analyte	BOD

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L1772137-01 Original Sample (OS) • Duplicate (DUP)

DUP RPD Limits		0
DUP Qualifier D	1 %	2
DUP RPD	%	0
Dilution		æ
DUP Result	mg/l	9
Original Result DUP Result Dilution DUP RPD	l/gm	QN
	Analyte	BOD

Laboratory Control Sample (LCS)

	LCS Qualifier		ᅱ
	Rec. Limits	%	85-115
	LCS Rec.	%	82.9
	LCS Result	∥/gш	164
9/02/24 09:48	Spike Amount	l/gm	198
(LCS) R4114564-2 09/02/24 09:48		Analyte	BOD

PROJECT:

WG2351993 Wet Chemistry by Method 5210 B-2016

QUALITY CONTROL SUMMARY

Method Blank (MB)

MB) R4114571-1 09/02/24 11:05	24 11:05					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	l/gm		mg/l	mg/l		
CBOD	П		0.200	200 0,200		

L1772098-02 Original Sample (OS) • Duplicate (DUP)

DUP Qualifier Limits	%	20
Qualifier		
		집
2:13 DUP RPD	3¢	200
09/02/24 1 Dilution		-
4 11:40 • (DUP) R4114571-3 09/02/24 12:13 Original Result DUP Result Dilution DUP RPD	l/gm	QN
09/02/24 11:40 • (DUP) R4114571-3 09/02/24 12:13 Original Result DUP Result Dilution DUF	I/gm	101
(0S) L1772098-02	Analyte	CBOD

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L1772102-02 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	%	20
	DUP Qualifier		
2:14	Dilution DUP RPD	%	10.5
9/02/24 12	Dilution		-
24114571-4 0	DUP Result	∥g/l	154
OS) L1772102-02 09/02/24 11:51 • (DUP) R4114571-4 09/02/24 12:14	Original Result DUP Result	l/gm	1.71
(OS) L1772102-02 (Analyte	CBOD

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	85-115
	LCS Rec.	%	68
	LCS Result	mg/l	176
2/24 11:10	Spike Amount	l/gm	198
(LCS) R4114571-2 09/02/24 11:10		Analyte	CBOD

PROJECT:

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 5220D

Method Blank (MB)

(MB) R4114968-1 09/03/24 13:54	24 13:54					
	MB Result	MB Qualifier MB MDL	MB MDL	MB RDL		
Analyte	l/gm		l/gm	пд/I		
COD	D		16.1	35.0		

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits LCS Qualifier	%	80.0-120
	LCS Rec.	ò [®]	106
	t LCS Result	V	529
9/03/24 13:54	Spike Amount		
(LCS) R4114968-2 09/03/2		Analyte	COD

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L1769663-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(0S) L1769663-01	OS) L1769663-01 09/03/24 13:54 • (MS) R4114968-3 09/0	R4114968-3 05	3/03/24 13:54	03/24 13:54 • (MSD) R4114968-4 09/03/24 13:54	168-4 09/03/2	24 13:54						
	Spike Amount	Spike Amount Original Result	MS Result	MS Result MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution Rec. Limits	ec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	∥gm	l/gm	mg/l	%	%	%				%	%
COD	200	45.2	531	535	97.1	0.86	1 8(80,0-120			0.785	20

L1771809-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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Spike Amount	OS) L1771809-01 09/03/24 13:54 • (MS) R4114968-5 09/03/24 13:54 Osidinal Result	3/24 13:54 • MS Result	(MSD) R411496 MSD Resuit	MSD) R4114968-6 09/03/2413:54 MSD Result MS Rec MSI	H3:54 MSD Rec	Dilution	Offution Rec Limits	MS Qualifier		Udd	DDD I mift	
l/gm	mg/l	mg/l	mg/l	%	%		% C.		Dillipo Ace	Z %	۸۲ وااااا	
200		598	809	98.0	100	-	80,0-120			1.74	50	

09/06/24 09:07 DATE/TIME:

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 5310C

Method Blank (MB)

MB RDL 0.700 l/gm MB MDL 0.270 l/gm MB Qualifier MB Result l/gm (MB) R4115336-1 08/30/24 13:12 \supset TOC (Total Organic Carbon) Analyte

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	90.0-110
	LCS Rec.	%	98.2
		∥g/l	9.82
08/30/24 13:32	Spike Amount LCS Result	l/gm	10.0
(LCS) R4115336-2 08/30/;		Analyte	TOC (Total Organic Carbon)

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		RPD Limits	%	20
		RPD	%	0.590
		MSD Qualifier		
		MS Qualifier		
		Dilution Rec. Limits	%	80.0-120
(C)		Dilution		-
.) • Matrix Spike Duplicate (MSD)	24 15:02	MSD Rec.	%	95.1
Spike Du	6-4 08/30/2	MS Rec.	96	94.3
(/)	• (MSD) R4115336-4 08/30/24 15:02	MSD Result MS Rec.	l/gm	13.6
ıtrix Spike (N	08/30/24 14:34	Spike Amount Original Result MS Result	l/gm	13.5
(OS) • Ma) R4115336-3	t Original Res	∥g/l	4.08
ial Sample	24 15:28 • (MS	Spike Amount	∥/gш	10.0
L1771703-02 Original Sample (OS) • Matrix Spike (M9	(OS) L1771703-02 08/30/24 15:28 • (MS) R4115336-3 08/30/24 14:34		Analyte	TOC (Total Organic Carbon) 10.0

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PROJECT:

L1772137 SDG:

QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1770709-01 Original Sample (OS) • Duplicate (DUP)

	DUP Qualifier Limits	%	20
08/30/24 08:37	Dilution DUP RPD		1 0.136
DUP) R4113798-2 (Original Result DUP Result	ns	7.37
08/30/24 08:37 • ([Original Re	ns	7.36
(OS) L1770709-01 08/30/24 08:37 • (DUP) R4113798-2 08/30/24 08:37		Analyte	Ь́Н

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Sample Narrative:

OS: 7.36 at 18.8C

DUP: 7.37 at 18.9C

Laboratory Control Sample (LCS)

	Rec. Limits LCS Qualifier		
	Rec. Limits	%	99.0-101
	LCS Rec.	%	100
	LCS Result	SU	9.00
30/24 08:37	Spike Amount LCS Result	ns	00.9
(LCS) R4113798-1 08/30/24 08:37		Analyte	곱

Sample Narrative: LCS: 6 at 22,4C

PROJECT:

Enviro-Ag Engineering ACCOUNT:

L1772137 SDG:

09/06/24 09:07 DATE/TIME:

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QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM4500NH3H

Method Blank (MB)

MB) K41136UZ-1 U8/29/24 16:14				
MB F	MB Result MB Qualifier MB MDL	MB MDL	MB RDL	
1/6ш		l/gm	mg/l	
⊃		0.0280	0.100	

Laboratory Control Sample (LCS)

	iei.		
	LCS Qualifier		
	Rec. Limits	%	80.0-120
	LCS Rec.	9 ₆	103
	LCS Result	∥∕бш	5.16
29/24 16:16	Spike Amount	l/gm	5.00
(LCS) R4113602-2 08/29/		Analyte	Ammonia Nitrogen

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L1771585-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771585-01 08/29/24 16:27 • (MS) R4113602-3 08/29/24 16:18 • (MSD) R4113602-4 08/29/24 16:19	/29/24 16:27 • (MS)	R4113602-3 08,	729/24 16:18 •	(MSD) R411360	12-4 08/29/24	1 16:19						
	Spike Amount	Spike Amount Original Result	MS Result	MSD Result MS Rec.	MS Rec.	Rec.	Dilution Rec. Limits	Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD	RPD Limits
Analyte	l/gm	l/ɓw	l/sm	mg/l	%	%		%			%	%
Ammonia Nitrogen	2.00	0,252	5.24	5.23	8.66	9.66	-	80.0-120			0.191	20

L1771778-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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(OS) L1771778-01 08/29/24 16:37 • (MS) R4113602-5 08/29/24 16:21	9/24 16:37 • (MS) R.	4113602-5 08/2	·	MSD) R4113602-6 08/29/24 16:23	2-6 08/29/24	16:23						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	MSD Result	. MS Rec.	MSD Rec.		Dilution Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	l/gm	%	%		%			%	%
Ammonia Nitrogen	5.00	0.337	5.37	5.40	101	101	-	80.0-120			0.557	20

L1772137 SDG:

WG2353457 Mercury by Method 245.1

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R4114163-2 08/30/24 16:37 MB R Analyte mg/l)8/30/24 16:37 MB Result MB Qualifier mg/l	MB Qualifier	MB MDL mg/l	DL MB RDL mg/l			
Mercury	n		0.0000450	0.000200			

Laboratory Control Sample (LCS)

	LCS Qualifier		
	Rec. Limits	%	85.0-115
	LCS Rec.	%	106
	LCS Result	mg/l	0.00264
1/30/24 16:35	Spike Amount	l/gm	0.00250
(LCS) R4114163-1 08/30/24 16:35		Analyte	Mercury

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L1772505-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

		RPD Limits	>∞	20
		MSD Qualifier RPD F		1.62
		its MS Qualifier		
		Dilution Rec. Limits	%	70.0-130
וכפות (ואוטם)	14	MSD Rec. Di	%	99.6
שט שעולה	4 08/30/24 16:		%	98.0
VIDDIAL - /CIA	(MSD) R4114163-	MSD Result MS Rec.	l/gm	0.00249
こういん くこ	8/30/24 16:41 •	t MS Result	l/gm	0.00245
(00)	3) R4114163-3 C	Spike Amount Original Result MS Result	∥бш	QN
	/30/24 16:39 • (MS	Spike Amount	l/gm	0.00250
(ACM) should be a second of the second of th	(OS) L1772505-08 08/30/24 16:39 • (MS) R4114163-3 08/30/24 16:41 • (MSD) R4114163-4 08/30/24 16:44		Analyte	Mercury

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PROJECT:

SDG: L1772137

QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

Method Blank (MB)

0.00500 0.00700 0.00100 0.0100 0.0200 0.0250 0.0100 0.0100 0.0200 0.0200 0.0250 0.500 0.000490 0.000350 0.000180 0.000710 0.00242 0.00418 0.00364 0.00358 0.00500 0.00312 0.0353 0.00775 0.0106 MB Qualifier MB Result (MB) R4114074-1 08/30/24 15:06 Chromium Cadmium Antimony Beryllium Aluminum Analyte Barium Copper Selenium Thallium Arsenic Nickel Lead

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Method Blank (MB)

0.00500 MB RDL ∥g/l 06600000 MB MDL ∥g/l MB Qualifier MB Result l/gm (MB) R4114798-1 09/03/24 10:52 Analyte Silver

Laboratory Control Sample (LCS)

(LCS) R4114074-2 08/30/24 15:10	8/30/24 15:10				33
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	l/gm	l/gm	%	%	
Aluminum	10.0	10.7	107	85 0-115	
Antimony	1.00	0.935	93.5	85,0-115	
Arsenic	1.00	0.987	98.7	85.0-115	
Barium	1.00	1.04	104	85.0-115	
Beryllium	1.00	1.06	106	85.0-115	
Cadmium	1.00	8/6.0	97.8	85.0-115	
Chromium	100	1.10	110	85.0-115	
Copper	1.00	986.0	98.6	85.0-115	
Lead	1.00	103	103	85.0-115	
Nickel	1.00	1.05	105	85.0-115	
Selenium	1,00	896.0	8.96	85.0-115	
Thallium	1.00	1.03	103	85.0-115	
Zinc	1,00	1.03	103	85.0-115	

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09/06/24 09:07 DATE/TIME;

L1772137 SDG:

PROJECT:

Enviro-Ag Engineering

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Metals (ICP) by Method 200.7

Laboratory Control Sample (LCS)

(LCS) R4114798-5 09/03/24 11:59	/24 11:59				
	Spike Amount LCS Result LCS Rec.	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	l/gm		%	%	
Silver	0.500	0.486	97.1	85.0-115	

QUALITY CONTROL SUMMARY

L1772221-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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(OS) 11772221-01 08/30/24 15·14 • (MS) R4114074-3 08/30/24 15·18 •	724 15-14 . (MS) R.	4114074-3 08/3	17.18.1	(MSD) R4114074-4 08/30/24 15:22	4 08/30/241	5.22						
	Spike Amount	Original Result MS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	l/gm	l/gm	l/gm	%	%		%			%	%
Aluminum	10.0	ND	10.7	10.7	107	107	1 6 6	70.0-130			0.000	20
Antimony	1.00	QN	0.965	0.945	96.5	94.5	*	70.0-130			2.10	20
Arsenic	1.00	QN	1.02	1.00	102	100	**	70.0-130			1.98	20
Barium	1.00	0.108	1.16	115	105	104	*	70.0-130			1,13	20
Beryllium	1.00	QN	1.05	1.04	105	104	**	70.0-130			1.15	20
Cadmium	1.00	0.0151	101	0,991	9.66	97.6		70.0-130			1.98	20
Chromium	1.00	ND	1.07	1.04	107	104	¥100	70.0-130			2.37	20
Copper	1.00	QN	1.01	0.991	1.66	97.6		70.0-130			1,51	20
Lead	1.00	ND	1.02	0.997	101	99.3	20	70.0-130			2.11	20
Nickel	1.00	QN	1.03	1.01	103	101	F-0	70.0-130			2.06	20
Selenium	1.00	QN	1.00	0.985	100	98.5	-	70.0-130			1,69	20
Thallium	1.00	QN	1.02	1.00	102	100	·+	70.0-130			1.49	20
Zinc	1.00	0.265	1.27	1.25	100	98.0	-	70.0-130			1.91	20

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L1772221-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

		RPD Limits	%	20
		RPD	%	6.35
		MSD Qualifier RPD		
		MS Qualifier		
		Dilution Rec. Limits	%	70.0-130
,		Dilution		-
	11:07	MSD Rec.	%	75.1
) R4114798-4 09/03/24 11:07	MS Rec.	%	80.0
	(MSD) R411479	MSD Result	l/bm	0.375
/ _ / /	/03/24 11:04 •	t MS Result	∥⁄gш	0.400
	24114798-3 09	Spike Amount Original Result MS Result	mg/l	Q.
	/03/24 11:00 • (MS) F	Spike Amount	l/gm	0.500
	(OS) L1772221-01 09/03/24 11:00 • (MS) R4114798-3 09/03/24 11:04 • (MSD		Analyte	Silver

L1772211-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Spike Amount Original Result MS Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	1/бш	mg/l	l/gm	%	%		%			%	%
Aluminum	10.0	ND	10,4	10.4	103	102	-	70.0-130			0.288	20
Antimony	1.00	ND	1.01	1.02	101	102		70.0-130			0.692	20
Arsenic	1.00	ND	1.04	1.04	104	104	(-	70.0-130			0960.0	20
Barium	1.00	0.106	13	1,1	101	100	•	70.0-130			0.270	20
Beryllium	1.00	ND	1.02	1.02	102	102	F	70.0-130			0.196	20
Cadmium	1.00	0.0120	1.03	1.03	102	102	5	70.0-130			0.0970	20

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09/06/24 09:07 DATE/TIME:

L1772137 SDG:

PROJECT:

Enviro-Ag Engineering

ACCOUNT:

WG2353543
Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L1772211-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

		imits									
		RPD Limits	%	20	20	20	20	20	20	20	20
		RPD	%	1.63	0.391	0.193	0.389	0.973	1.10	0.000	132
		MSD Qualifier									
		MS Qualifier									
		Rec. Limits	%	70.0-130	70.0-130	70.0-130	70.0-130	70,0-130	70.0-130	70.0-130	70 0-130
,		Dilution		, , , , , , , , , , , , , , , , , , , 	i ser	-	e-	•			÷
	114:11	MSD Rec.	%	103	100	103	103	103	78.7	103	104
-	8-7 09/03/24	MS Rec.	%	105	101	103	103	102	77.8	103	106
	(MSD) R411479	MSD Result	mg/l	1.03	1.02	1.03	1.03	1.03	0.393	1.03	1.35
	03/24 14:07 •	MS Result	mg/l	1.05	1.03	1.04	1.03	1.02	0.389	1.03	1.37
	4114798-6 09,	Original Result	∥/gm	Q	QN	QN	QN	QN	QN	QN	0.311
	24 14:03 • (MS) R4	Spike Amount Original Result MS Result	∥gm	1.00	1.00	1.00	1.00	100	0.500	1.00	1,00
	(OS) L1772211-01 09/03/24 14:03 • (MS) R4114798-6 09/03/24 14:07 • (MSD) R4114798-7 09/03/24 14:11		Analyte	Chromium	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc

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SDG: DATE/TIME: DATE/TIME: 09/06/24 09:07

PROJECT:

ACCOUNT: Enviro-Ag Engineering

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit:
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed, Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG,
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrathy to discuss the manning of any data qualifiers used in the case of the process.

Custody (Sc)	cate of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or

analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and Sample Summary (Ss) times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J-	The associated batch QC was outside the lower control limits; associated data has a potential negative bias,
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.



















Quality Control

Summary (Qc)

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
ldaho	TN00003	Ohio-VAP	CL0069
Illinols	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Реппsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA - ISO 17025	1461,01	AJHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
lowa	408	Oklahoma	8727
Louisiana	30686		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable



















^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Control Cont	Company Name/Address:			Billing Intormation:	Harron.										100		
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In	3404 Airway Bivd. Amarillo, TX 79118		LI.	3404 Airv Amarillo,	vay Blvd. TX 79118		충									Face	ace Analytical
Collected: Collected: Provided: Pr	Report to: Jourdan Mullin			Email To:	mullin@envirozg.co m;mshoemaker@en viroag.com	m;rgeorge@env viroag.com;jmu	iroag.c			20580					10.10	190 Allen, TX 75013 Submitting a sample wa this chain of constitutes acknowledgment and acc	75013 this chain of custody ment and acceptance of th
Sine/Faulity ID # Sine/Faulity ID # P.O. # Sine/Faulity ID # P.O.	Project Description: Pollutant Permit		City/State Collected:			Please Ci	rcle: T ET			HOE		₽OS ₹			9860	Pace Terms and Condition titys://info pacelabs co	Pace Terms and Conditions found al: https://info.pacelabs.com/hubfs/pas-standard- terms.htfl
Size/Facility ID # Rush 2 Lab NutsTee Northeral Ourde #	Phone: 254-965-3500	Client Project	#		Lab Project #			10000000	A 1/4 S		ч нсі	H bbA				SDG #	# 503 # side
Filter Remarks: Field TEMP Time:	Collected by (print):	Site/Facility II	#± O					de Kah	100	o o o	bA-dr	DPE-	10000		180	Acctnum: DS	Acctnum: DSENVIGOTX
Name Day	Collected by (signature):	Rush? (Lab MUST Be I	Notified)	할		T	and s	1000	200	nA-J	HIMO	2000		56710	Template: T258910	8910
F- Filter Remarks: Field TEMP Feebed by (Sgratgree) Time		Same D		lay (Rad Only) y (Rad Only)	Date Resul	ts Needed	No.	(87/11/25)			SHEX 1	09 SOI			W. 172	Prelogin: P1096615 PM: 3665 - Dorothy P Roberts PB:	96615 hy P Roberts
F. Filter	-	Comp/Grab	È	Depth	Date	Time	Cntrs	230 10	-	\$410.664	רסכ√	 dTT\	2000		(N.S.)	Shipped Via: Fe	Shipped Via: FedEX Ground Remarks Sample # (lab only)
Remarks: Field TEMP 8 - Bioassay Samples returned via: Counter	Z.h., 1, 1, 1	1	**		â		1015	84 (85)	-	Alco	/ ×	/ ×	100		0 808	191	
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F-Filter B-Bioassay Samples returned via: Lups FredEx Courier Samples returned via: Lups FredEx Courier Time: Received by (Signature) Received by (Signature) Time: Received by (Signature)	7 252						1000			7000					993		
F - Filter B - Bioassay Samples returned via: Lups _ Fedex _ Counier _ Counier _ Cacking # Samples returned via: Lups _ Fedex _ Counier _ Counier _ Cacking # Samples returned via: Lups _ Fedex _ Counier _ Counier _ Cacking # Samples returned via: Lime: Received by, (Signature)							MO	Į.		7/86			loe:		201		
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Remarks: Field TEMP B - Bioassay Samples returned via: UPS _ Fedtx _ Counier _ Counier _ Date; Date; Date; Date; Date; Time: Received by: (Signature) _ Temp: C Bottles Received: Time: Received by: (Signature) _ Temp: C Bottles Received: C										604 0				2018			
F- Filter B- Bioassay Samples returned via: UPS FedEx Counier Date: Date: Date: Time: Received by: (Signature)										83 50					2012		
B- Bioassay Samples returned via: UPS FedEx Counier Tracking # Tracking # Tracking # Tracking # Tracking # Tracking # Trip Blank Received: Yes / No HCL / MeoH Talk Time: Received by (Signature) Time: Received by (Signature) Time: C Bottles Received: Time: Parties Received by (Signature) Talk To be the state of the	: AIR - Air F - Filter	lemarks: Field Metal	TEMP Is, Al,Sb,As,	Ba, Be, Cd,	Ċr, CRè, CR3, Cı	ı,Pb,Ni,Se,A	g,tì,żn, ŀ	, <u>6</u>		Hd.		Temp.		202	Seal Seal	mple Receipt Checklist Present/Intact: NR	Schlist NP Y N
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quished by: (Signature) 728724 9.2627	\.	Samples returned UPS FedE			Tracki	#80								Suf	Zero H	t volume sent: If Applicabl Headspace:	H >
dushed by Signature) Datey Time: Received by (Signature)	A i		1/83/2	Time 2.	760	ved by: (Signal	Jac.		١,	Trip Bla	nk Recen		/ No SL / MeoH	Pre	Screen	Preservation Correct/Checked: RAD Screen <0.5 mR/hr:	K K
1 1/2 XXX 7.0 11/21 11/21	duished by de	1	Plate S/S/7,	Time	Ch	Pa	Jen C	Dag	A	Temp:		Pri local	s Received	If pr	eservatíc	If preservation required by Login: Date/Time	n: Date/Time
lie)	Relinquished by : (Signature)		ale:	T m	2	ved for lab by:	(Signature	3		Date:		Time		Hold			Condition: NCF / OK

Environg Engineering Stage Annews Band Stage Annews Band Anne Anne Band Annews Band Anne Band Band Annews Band Annews Band Anne Band Band Anne Band	Company Name/Address:		Billing Information:	nation:		Ц		Analysis	Analysis / Container / Preservative	Chain of Custody Page	Page 16 of 18
F. Filter	Enviro-Ag Engineering		Bryan Mul 3404 Airw	llin ay Blvd. TX 79118	Pre	2	J. (120)			Constant of the Array of the Ar	° Jeoj
Christian Chri	3404 Airway Blvd. Amarillo, TX 79118		, dinamino,	0116			17-11-1	n const		T als rulally	[Sa]
Completed Comp	Report to: Jourdan Mullin		Email To: em	nullin@enviroag.com;rmshoemaker@enviriritroag.com	rgeorge@enviroag. oag.com;jmullin@e	1840	012.2	NEW YORK		190 Allen, TX 75013 Submitting a sample via this chain of c.	ybatı
Single-strip Part Project # Part	Project Description: Pollutant Permit	City/State Collected:			Please Circle: PT MT CT ET	T .	Laval	Messa		constitutes acknowledgment and acce, Pace Terns and Conditions found at: https://enfo pacelabs.com/hubfs/pas-s: lettis.mt	tance of the
Site State	Phone: 254-965-3500	Client Project #		Lab Project #		Jahin	W. Covi	No.			
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F. Filter	Sample ID		Depth	Date			PU	Parlin Sal		Shipped Via: FedEX Gr	punc
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F. Filter Remarks: Field TEMP Remarks: Field TEMP Received Cr.CR6.CR3.Cu.Pb.Ni.Se.Ag.Ti.Zn, Hg	Spready Irratio	Caro		128	2.(がま)。	-	550	23		Ē	
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F-Filter B-Bioassay B-Bioass							386				
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Date: State: Received Time: Received for lab by: (Signature) Date: Time: Hold: Hold:	Relinquisped by : (Signature)	B/28/2	Time:		Signature)	16	1 8	Trip Blan	>	Freservation Correct/Checked: RAD Screen <0.5 mR/hr:	N N
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THE RESERVE THE PROPERTY OF TH	Relinquished by : (Signature)	Date	Time:	Received	for lab by: (Signa	ture)		Date:	Time:		Son:

/	Pace	
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DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receipt

□Dallas □Ft Worth	□Corpus Christi □Austin
Client Name: Envivo - Engineering Project	t Work order (place label):
TACE OTHER	
Tracking #:	1772137
Custody Seal on Cooler/Box: Yes D No	
Received on ice: Wet Blue No ice	p °C: 2.3 (Recorded) b.3 (Correction Factor) 2.6 (Actual)
Receiving Lab 2 Thermometer Used: Cooler Tem	p °C: X (Recorded) V.J (Correction Factor) 2.6 (Actual)
Cooler Tem	p °C: (Recorded) (Correction Factor) (Actual)
Chain of Custody relinquished	Yes D No D
Sampler name & signature on COC	Yes No
Short HT analyses (<72 hrs)	Yes No 🗆
Temperature should be above freezing to 6°C unless collected same	day as receipt in which evidence of cooling is acceptable
	is acceptance.
Triage Person: Date;	
	Yes no 🗆
Correct Container used	Yes 🗗 No 🗆
Container Intact	Yes 6 No 🗆
Sample pH Acceptable	Yes □ No ∮ NA □
pH Strips: 6402007 Residual Chlorine Present	<i>!</i>
Cl Strips: 14800	Yes D No d NA D
Sulfide Present	Yes O No p NA O
Lead Acetate Strips: 14802	
Are soil samples (volatiles, TPH) received in 5035A Kits	Yes 🗆 No 🗅 NA 🏚
(not applicable to TCLP VOA or PST Program TPH)	7
Unpreserved 5035A soil frozen within 48 hrs	Yes □ No □ NA 🗹
Headspace in VOA (>6mm)	Yes □ No □ NA ф
Project sampled in USDA Regulated Area outside of Texas	Yes D No D NA
State Sampled:	r
Non-Conformance(s):	Yes D No D
\d	res u No 🗆
ogin Person: Pate: 8 28	
abeling Person (if different than log-in):	
- The control of the	Date:
altrax ID: 48806	

Qual

Company Name/Address		Billing Information:	mation:		Ц		Anal	Analysis / Container / Preservative	ainer /	Preservat	ai N		5	Chain of Custody	Page 12 of 16
Enviro-Ag Engineering		Bryan Mullin 3404 Airway Blvd.	illin vay Bivd.	Pres	55 0									6	
3404 Airway Bivd. Amarillo, TX 79118		Amarillo,	Amarillo, TX 79118											Face	Pace Analytical
Report to Jourdan Mullin		Email To e	omulingenvirag.com;rgeorge@envirag.c om;rskoemaker@envirag.com;jmullin@e nvirag.com	m;rgeorge@envkraag viroag.com;imullin@	2 .								₩ 3	190 Allen, TX 75013	75013
Project Description Pollutant Permit	City/State Collected			Please Circle: PT MT CT ET				HO	†OS:				5 2 2 9	constitutes as a nowine depoint and a sceptumer and a season as a season to seek at the season and constitute to seek at the season as completely lightly varieties of the season and seaso	ent and socialization of the infrared at Thief (frared and are
Phone: 254-965-3500	Client Project #		Lab Project #		Pres	sə			100		†O	se		* 905 #	10.197
Collected by (print):	Site/Facility ID #		P.O.#		E-No	ıЧ₀И	No. of		V2/55		P-H58	NoPri	- !-	ctnum: DS	Acctnum: DSENVIGDTX
Collected by (signature)	Rush? (Lab MUST Be Notified)	: Notified)	Quote #		HDE	34al	77.5		15 Y		lmAln	DPE-		emplate: T258910	8910
Immediately Parked on Ice N Y	Same Day Five Next Day 5 Da Two Day 10 D Three Day	Frve Day 5 Day (Rad Only) 10 Day (Rad Only)	Date Results Needed	S Needed No.	K 125m	ארוו מכ	30D 1	N CNAI	109 SOF	H-71 SC	OC 5204	H-71 SS	RR 250	Prelogin: P1096615 PM: 3666 - Dorothy P Roberts PB:	19 P Roberts
Sample	Comp/Grab Matrix *	Depth	Date	Time Cntrs		ALLBC	at witness		-		OTJJA	STJJA		ipped Via: Fe	Shipped Via: FedEX Ground Remarks Sample # Lab only)
Schripy Lowerich	MM 7 CC		K1848	9.80mms	-	×		-		1	×	×	1 ×	19.	
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REC: Frate															
KT.															
Rei SS Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WastelWater	Remarks: Field TEMP Metals, Al,Sb,As,Ba,Be,Cd,Ĉr,CR6,CR3,Cu,Pb,Ni,Se,Ag,Ti,Zn, Hg	s,Ba,Be,Cd,	Čr,CRŠ,ČR3,ďu,	Pb,Ni,Se,Ag,Tl,	źn, Hg			PH	Temp	np ier		COC Star	Sear Present/Int. Signed/Accurate: les arrive intacect	Sample Receipt Checklist Seal Present/Intact: NF Signed/Acourate: Les artive intact: ecc. bottles used:	NF Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
OT Other Sar	Samples returned via: UPS FedEx Courier		Tracking #	# 29				111	5 16			Suffic Voa Zer	Suffleient volume of App. If App. VOA Zero Headspace	Sufficient volume sent: If Applicable	Z Z
Relinquished by : (Signature)	9/23/2	Time:	20	Received by (Signature)	de		F	Trip Blank Received:	The state of the s	Yes / No HCL / MeoH		Preservation RAD Screen <		Correct/Chacked:),5 mR/hr:	z z z z z z z z z z z z z z z z z z z
Secretary red by Hogenature)	8/8/2	Time:	1	ed yy (Signature)	and a	ree	Tremp	43:	0 L	Bottles Received		if preser	vation req	if preservation required by Login: Date/Time	: Date/Time
Relinquished by : (Signature)	Date	Time	and a	edifor lab by: (Sign	ature)		Oato	12/24	Ţ	Time: 0400	847	Hold:			Condition: NCF / OK
			1	-											

Enviro-Ag Engineering 3404 Airway Bivd. Amarillo, TX 79118		Billing Information:				Analysis /		Container / Preservative	Chain of Custody	Page 16 of 16
3404 Airway Blvd. Amarillo, TX 79118	Bryan 3404 A Amaril	Bryan Mullin 3404 Airway Blvd. Amarillo, TX 79118	Pres	5				S	Case	Pace Analytical
					ZH P	7200	100		,	, , , , , , , ,
Report to Jourdan Mullin	Email To:	cmultingenviroeg.com;rgeorgegenviroag.c m;mshoemakergenviroag.com;nuitinge nviroag.com	n;rgeorge@enviroag //roag.com:jmullin@	_	p∀-∃c	No.	05170		190 Allen, TX 75013 Submitting & temple wealthis chair of c	TX 75013 we this chair of custody
Project Description, Pollutant Permit	City/State Collected		Please Circle: PT MT CT ET		IOHIL	SUSJ.	N-7.		Construine a Conditions and acceptance or ma Pace Lerms and Conditions found at http://into.pacellabs.com/hub/25as standard Internalia.	nt and acceptance of the found at hubby/pay standard
-3500	Client Project #	Lab Project #		1 0 Hlm	n003 V	11/0/0/01	a mine			1010.
Collected by (print). Site/F	Site/Facility ID #	P O. #) 092 o	13 TKI		271.110		Actinum: DSENVIGDTX	SENVIGOTX
Collected by (signature)	M US	Quote #		re sbe	-IN' □(711	t'euro	187	Template: T258910	3910 7
7	Same Day inve Day Next Day 5 Day (Rad Only) Two Day 10 Day (Rad Only) Thuse Day	Date Results Needed	Needed	ICP si	DD me	AD ma	ns mə		PM: 3466 - Dorothy P Roberts PB:	P Roberts
Соп	Matrix Dept	h Date	Time Catrs		WetCh		1101244		Shipped Via: FedEX Ground Remarks Sample # (ab on	Sample # (ab only)
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Million State Mallion	Valle Land land	how the				08	192			
KEC. Trades of	ammunity of	To I lake						131		
APC Fredex						112				
)						E				
* Matrix: S5. Soil AIR-Air F-Filter GW-Groundwater B-Bioassay MMN. WasselWater	Remarks: Field TEMP Metals, Al,Sb,As,Ba,Be,Cd,Cr,CR6,CR3,Cu,Pb,Ni,Se,Ag,Tl,Zn, Hg	d,Cr,CR6,CR3,Cu,	Pb,Ni,Se,Ag,Tl,	în, Hg			PH Flow	Temp Other	0 5 0 n	Me N N N N N N N N N N N N N N N N N N N
2	Samples returned via: UPS FedExCourier	Tracking #	±;		-01				Sufficient volume sent: Vor Zero Headspace:	2 Z
Reimquisped by (Signature)	B/28/22 9	Time Receive	Received St. (Signature)	K	ľ	ig V	Trip Blank Received:	ved: Yes / No HCL / MeoH	Preservation Correct/Checked: RAD Screen <0.5 mR/hr:	
Rodingsed by (Signature)	Pate 18/24 Tre	140 Record	dby (Signature)	a	4 3	III.	43.	°C Bottles Received:	If preservation required by Login: Date/Time	Date/Time
Relinquished by (Signature)	Date. Tin	and the same of th	d for late by: (Sign	o DD.		A C	Jahr	Time:	ноід:	Condition: NCF / OK

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DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receipt

1	action open receipt
□ Dallas □ Ft Worth	□Corpus Christi □Austin
Client Name: Enviro my Enginenny Proje	ct Work order (place label):
Courier: FedEX UPS Q USPS Q Client LSO Q PACE Q Other:	1177 2137
Custody Seal on Cooler/Box: Yes □ No Ø	111 1 2131
Received on ice: Wet 🗸 Blue 🗅 No ice 💆	2.5
Receiving Lab 1 Thermometer Used: 18 Cooler Ten	np °C: 2-3 (Recorded) D.3 (Correction Factor) 2.6 (Actua
Receiving Lab 2 Thermometer Used: Cooler Tem	np °C:(Recorded)(Correction Factor)(Actual
Chain of Custody relinquished	Ver L. N.
Sampler name & signature on COC	Yes D No D
	Yes 🗆 No 🖊
Short HT analyses (<72 hrs)	Yes No D
Temperature should be above freezing to 6°C unless collected same	e day as receipt in which evidence of cooling is acceptable
Triage Person: HL Date 8728	a deceptable.
Sufficient Volume received	Yes ≠ No □
Correct Container used	Yes No ¬
Container Intact	Yes b No a
Sample pH Acceptable	Yes No NA
pH Strips: 6402007	Contraction of the contraction o
pH Strips: 6402007 Residual Chlorine Present CI Strips: 14840	Yes D No d NA D
Sulfide Present	Yes I No p NA I
Lead Acetate Strips: 14802	,
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes D No D NA
Unpreserved 5035A soil frozen within 48 hrs	Yes D No D NA f
Headspace in VOA (>6mm)	Yes D No D NA D
Project sampled in USDA Regulated Area outside of	Yes O NO NA
Texas State Sampled:	, <u>r</u>
Non-Conformance(s):	Yes No D
M _c	LC3 P 140 D
ogin Person. Date. 828	
(
abeling Person (if different than log-in)	Date:
There ID (Date)	***************************************

Qualtrax ID: 48806

Time estimate: 0h

Time spent: oh

Grouping date: 29 August

2024

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AR Aysen Ramos (responsible)

1 If Chain of must adv (OOO) is not - confirmation.
that it was filled out by lab personnel. Note issues on this NCF.
2. If COC is incomplete, check applicable issues below and add details where appropiate:
**Collection date/time missing or incorrect
*Samples listed on COC do not mothly committee in the committee of the com
Samples instead on COC do not match samples recieved (missing, additional, etc.)
*Required trip blanks were not received
* *Required signatures are missing
3. Sample integrity issues: check applicable issues below and add details where appropriate:
*Samples: Past holding time
*Samples: Not Field Filtered
*samples: Insufficent volume received
*Samples: Cooler damaged or compromised
*Samples: contain Chlorine or Sulfide
*Samples: condition needs to be brought to lab personnel's attention (details below)
*Containers: Broken or compromised
*Containers: Incorrect
*Custody Seals: missing or compromised on samples, trip blanks or coolers
*Packing Material: Insufficient/Improper
*Preservation: improper
*Temperature:not witin acceptance criteria (typically 0-6C)
*Temperature: Samples arrived frozen
*Vials received with improper headspace
*Other:
• 4. If Samples not preserved properly and Sample Receiving adjusts p.H. add details helow:
◆ Sample ID:_Scheiber Irrigation Week 1
◆ Preserved by: AR
◆ Date/Time: 08/28 1219
✓ Initial and Final pH:6/o
Amount/type pres added: 2.5ML.
✓ Lot # of Pres added:24G31212HNO3
5. Client contact: If Client is Contacted for any issue listed above, fill in details below:
Client:
PM Initials:
Contacted per:
Date/Time:

Comments



Pace Analytical* ANALYTICAL REPORT

September 26, 2024





Ss















Enviro-Ag Engineering

Sample Delivery Group:

L1776394

Samples Received:

09/11/2024

Project Number:

Description:

Pollutant Permit

Report To:

Jourdan Mullin

3404 Airway Blvd.

Amarillo, TX 79118

Entire Report Reviewed By: Though P Roberts

Dorothy P Roberts Project Manager

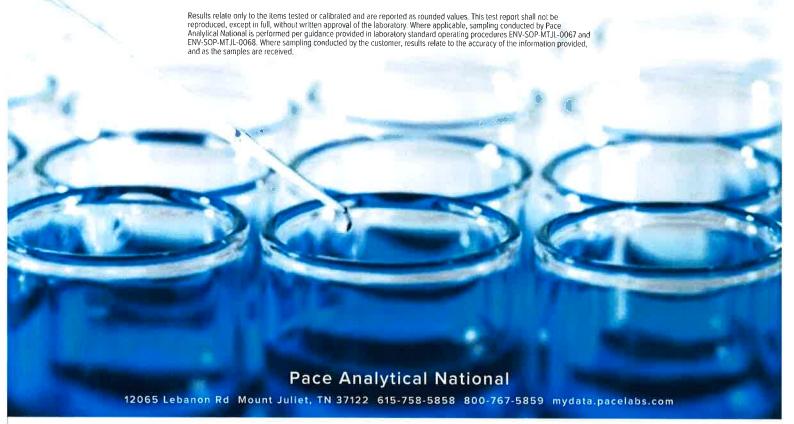


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Sc: Sample Chain of Custody

31

SAMPLE SUMMARY

Collected by

Collected date/time Received date/time





















SCHREIBER IRRIGATION WEEK 3 L17763	394-01 WW		LISA POSTMUS	09/11/24 09:30	09/11/24 12:3)
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Calculated Results	WG2363272	1/	09/25/24 09:10	09/25/24 09:10	JTM	Mt.:Juliet, TN
Calculated Results	WG2363437	1	09/18/24 21:36	09/18/24 21:36	EIG	Allen, TX
Gravimetric Analysis by Method 2540C	WG2363287	1	09/16/24 10:31	09/16/24 12:37	TQQ	Allen, TX
Gravimetric Analysis by Method 2540D	WG2364712	1	09/18/24 09:22	09/18/24 09:49	TOO	Allen, TX
Wet Chemistry by Method 1664A	WG2364004	1	09/18/24 16:25	09/18/24 20:09	DAL	Mt. Juliet, TN
Wet Chemistry by Method 2320B	WG2363254	10	09/16/24 10:42	09/16/24 10:42	SEN	Allen, TX
Wet Chemistry by Method 300.0	WG2360365	13	09/11/24 19:09	09/11/24 19:09	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2361894	18	09/13/24 17:59	09/13/24 17:59	SMC	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2364883	1	09/18/24 15:15	09/18/24 15:15	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2364715	2	09/18/24 10:15	09/18/24 21:36	EIG	Allen, TX
Wet Chemistry by Method 360.1	WG2361928	10	09/13/24 10:43	09/13/24 10:43	JBS	Allen, TX
Wet Chemistry by Method 4500Cl G-2011	WG2361916	1	09/13/24 11:18	09/13/24 11:18	JAR	Mt, Juliet, TN
Wet Chemistry by Method 4500CN-E	WG2362074	10	09/13/24 12:00	09/13/24 17:01	KCM	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2363840	18	09/17/24 17:28	09/17/24 17:28	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2363182	10	09/16/24 15:22	09/16/24 15:22	SMC	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2360385	18	09/11/24 17:18	09/16/24 12:37	SEN	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2361112	1/:	09/12/24 14:05	09/17/24 12:59	SEN	Allen, TX
Wet Chemistry by Method 5220D	WG2361922	1	09/13/24 10:46	09/13/24 13:02	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2363934	1	09/17/24 21:28	09/17/24 21:28	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2363828	1	09/17/24 09:15	09/17/24 09:15	SEN	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2363437	1)	09/16/24 16:56	09/16/24 16:56	EIG	Allen, TX
Mercury by Method 245.1	WG2360415	1	09/12/24 14:25	09/13/24 12:55	AKB	Mt. Juliet, TN
Metals (ICP) by Method 200 ₋ 7	WG2363272	1	09/24/24 17:12	09/25/24 09:10	MTL	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.





















Dorothy P Roberts Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Doutly P Roberts

Lab Sample ID

Project Sample ID

Method

L1776394-01

SCHREIBER IRRIGATION WEEK

3500Cr-B

ACCOUNT: Enviro-Ag Engineering PROJECT:

SDG: L1776394 DATE/TIME:

PAGE: 4 of 38

09/26/24 11:37

SCHREIBER IRRIGATION WEEK 3

Collected date/time: 09/11/24 09:30

SAMPLE RESULTS - 01

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium, Trivalent	ND		0.00300	1	09/25/2024 09:10	WG2363272
Organic Nitrogen	17.0		0.100	1	09/18/2024 21:36	WG2363437





Gravimetric Analysis by Method 2540C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Total Dissolved Solids	3260		250	1	09/16/2024 12:37	WG2363287



Ss



	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	258		50.0	1	09/18/2024 09:49	WG2364712





	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5_10	1	09/18/2024 20:09	WG2364004



Qc



Sç

Wet Chemistry by Method 2320B

X	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Alkalinity	865		20.0	1	09/16/2024 10:42	WG2363254

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chloride	1430		0.800	1	09/13/2024 17:59	WG2361894
Fluoride	ND		0.500	1	09/11/2024 19:09	WG2360365
Nitrate	ND		0.500	1	09/11/2024 19:09	WG2360365
Sulfate	157		0.700	1	09/13/2024 17:59	WG2361894

Wet Chemistry by Method 3500Cr-B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium, Hexavalent	ND		0.00300	1	09/18/2024 15:15	WG2364883

Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	17.3		0.500	2	09/18/2024 21:36	WG2364715



Wet Chemistry by Method 360.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Oxygen	8.11	Т8	1	1	09/13/2024 10:43	WG2361928	



Wet Chemistry by Method 4500Cl G-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	0.135	T8	0.100	1	09/13/2024 11:18	WG2361916

SCHREIBER IRRIGATION WEEK 3

SAMPLE RESULTS - 01

Collected date/time: 09/11/24 09:30 Wet Chemistry by Method 4500CN-E

**	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	09/13/2024 17:01	WG2362074
Wet Chemistry b	by Method 45000	N-G				



Ss

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Cyanide,amenable	ND		0.0100	1	09/17/2024 17:28	WG2363840



Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus,Total	8.42		0.500	10	09/16/2024 15:22	WG2363182



Wet Chemistry by Method 5210 B-2016

-	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
BOD	61.1		60.0	1	09/16/2024 12:37	WG2360385
CBOD	ND	<u>B1</u>	60.0	1	09/17/2024 12:59	WG2361112



Al

Wet Chemistry by Method 5220D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
COD	265		35.0	1	09/13/2024 13:02	WG2361922



Wet Chemistry by Method 5310C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	-
TOC (Total Organic Carbon)	22.5		0.700	1	09/17/2024 21:28	WG2363934

Wet Chemistry by Method SM 4500-H+B

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	SU			date / time	
рН	8.69	<u>T8</u>	Ť	09/17/2024 09:15	WG2363828

Sample Narrative:

L1776394-01 WG2363828: 8,69 at 19,4C

Wet Chemistry by Method SM4500NH3H

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.363	<u>B</u>	0.100	1	09/16/2024 16:56	WG2363437

Mercury by Method 245.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	09/13/2024 12:55	WG2360415

SCHREIBER IRRIGATION WEEK 3

SAMPLE RESULTS - 01

Collected date/time: 09/11/24 09:30 Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Aluminum	1.37		0,200	1	09/25/2024 09:10	WG2363272
Antimony	ND		0,0100	1	09/25/2024 09:10	WG2363272
Arsenic	ND		0.0100	1	09/25/2024 09:10	WG2363272
Barium	0.0348		0.00500	1	09/25/2024 09:10	WG2363272
Beryllium	ND		0.00200	1	09/25/2024 09:10	WG2363272
Cadmium	ND		0.00200	1	09/25/2024 09:10	WG2363272
Chromium	ND		0.0100	1	09/25/2024 09:10	WG2363272
Copper	ND		0.0100	1	09/25/2024 09:10	WG2363272
Lead	ND		0.00500	1	09/25/2024 09:10	WG2363272
Nickel	ND		0.0100	1	09/25/2024 09:10	WG2363272
Selenium	ND		0.0100	1	09/25/2024 09:10	WG2363272
Silver	ND		0.00500	1	09/25/2024 09:10	WG2363272
Thallium	ND		0.0100	Ĭ	09/25/2024 09:10	WG2363272
Zinc	ND		0.0500	1	09/25/2024 09:10	WG2363272





















QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

Total Dissolved Solids

(MB) R4120667-1 09/16/24 12:37

Gravimetric Analysis by Method 2540C

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 25,0
 25.0

Ср

Гс

Ss

L1776383-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1776383-01 09/16/24 12:37 • (DUP) R4120667-3 09/16/24 12:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	930	772	1	18.6	<u>J3</u>	10





Qc

L1776383-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1776383-02 09/16/24 12:37 • (DUP) R4120667-4 09/16/24 12:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
Total Dissolved Solids	1010	1150	1	12.8	<u>J3</u>	10





Laboratory Control Sample (LCS)

(LCS) R4120667-2 09/16/24 12:37

	Spike Amount	LCS Result	LCS Rec	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Total Dissolved Solids	2410	2490	103	85.0-115	

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Gravimetric Analysis by Method 2540D

Method Blank (I	/IU)							
(MB) R4121212-1 09/18	/24 09:49							-
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/l		mg/l	mg/l				
Suspended Solids	U		2.50	2.50				
L1776394-01 Ori	ginal Sample i	(OS) • Dur	olicata (DI	ID)				
(OS) L1776394-01 09/								_
(03) 21/70334 01 03/					DUP RPD			
	Original Result	DUP Result	Dilution D	DUP RPD <u>DUP Qualifi</u>	ier Limits			
Analyte	mg/l	mg/I	%	6	%			
Suspended Solids	258	260	1 0).772	10			
Laboratory Cont	rol Sample (L0	CS)						
(LCS) R4121212-2 09/1	8/24 09:49							_
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits LCS Q	Qualifier			
Analyte	mg/l	mg/l	%	%				
Suspended Solids	879	887	101	85.0-115				

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Oil & Grease (Hexane Extr)

Analyte

(MB) R4121468-1 09/18/24 20:09

Wet Chemistry by Method 1664A

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 1.16
 5.00



Тс



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4121468-2 09/18/24 20:09 • (LCSD) R4121468-3 09/18/24 20:09

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Oil & Grease (Hexane Extr)	40.0	34.8	36.1	87.0	90.3	78.0-114			3.67	20



⁺Cn







(OS) L1776604-02 09/18/24 20:09 • (MS) R4121468-4 09/18/24 20:09

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Oil & Grease (Hexane Extr)	40.0	ND	22.5	56.2	1	78 0-114	<u>J6</u>







QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte Alkalinity

(MB) R4120379-1 09/16/24 10:42

Wet Chemistry by Method 2320B

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 Analyte
 mg/l
 mg/l
 mg/l

 Alkalinity
 U
 20.0
 20.0



Ss

L1775916-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1775916-03 09/16/24 10:42 • (DUP) R4120379-3 09/16/24 10:42

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
mg/l	mg/l		%		%
100	98.0	1	2.02		20







L1776383-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1776383-04 09/16/24 10:42 • (DUP) R4120379-4 09/16/24 10:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	294	294	1	0.000		20





Laboratory Control Sample (LCS)

(LCS) R4120379-2 09/16/24 10:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/I	mg/I	%	%	
Alkalinity	250	240	96.0	90,0-110	

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Fluoride

Nitrate

method blar	11 (1112)												· fi
(MB) R4118974-1 (09/11/24 18:09												 Cp
	MB Result	MB Qualifier	MB MDL	MB RDL									
Analyte	mg/l		mg/I	mg/l									Тс
Fluoride	U		0.0947	0.500									
Nitrate	U		0,379	0.500									SS
													35
Laboratory C	Control Sample (L	.CS)											⁴ Cn
(LCS) R4118974-2													
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier								5 Sr
Analyte	mg/I	mg/l	%	%									J
Fluoride	5.00	4.97	99.5	90.0-110									6
Nitrate	5.00	4.84	96.8	90.0-110									°Qc
													7
1776419-05	Original Sample	(OS) • Mat	riv Spika (NAC) - Matrix	Chika Du	nlicata (MCC	21						GI
							<u>リ</u>						
(OS) L1//6419-05	09/11/24 19:21 • (MS) R4												⁸ Al
		Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	

5.00

5.00

0.847

ND

5.89

5.01

5.89

5.04

101

100

101

101

90.0-110

90.0-110

1

0.0543

0.557

20

20

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Wet Chemistry by Method 300=0

(MB) R4120096-1 09/13/24 15:37 MB Result MB Qualifier MB MDL MB RDL Analyte mg/I mg/l mg/l Chloride U 0.325 0.800 Sulfate U 0.211 0.700





Laboratory Control Sample (LCS)

(LCS) R4120096-2 09/13/24 15:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	5.00	5.27	105	90_0-110	
Sulfate	5.00	5,34	107	90_0-110	





QC.

L1775714-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775714-01 09/13/24 16:36 • (MS) R4120096-3 09/13/24 19:34 • (MSD) R4120096-4 09/13/24 19:46

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	mg/l	%	%		%	_		%	%
Sulfate	500	422	916	914	98.9	98.5	1	90.0-110			0.204	20





L1776262-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776262-05 09/13/24 17:47 • (MS) R4120096-5 09/13/24 19:58 • (MSD) R4120096-6 09/13/24 20:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits
Chloride	250	264	498	498	93.2	93.3	1	90.0-110			0.0271	20
Sulfate	250	455	678	677	89.4	89.1	1	90.0-110	<u>J6</u>	<u>J6</u>	0.115	20

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

Analyte

Chromium, Hexavalent

(MB) R4121281-1 09/18/24 15:15

Wet Chemistry by Method 3500Cr-B

MB Result MB Qualifier MB MDL MB RDL mg/l mg/l mq/I Chromium, Hexavalent U 0.00200 0.00300



Ss

Laboratory Control Sample (LCS)

(LCS) R4121281-2 09/18/24 15:15

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier mg/l % % mg/l 0.200 0.197 98.5

85.0-115









(OS) L1776375-02 09/18/24 15:15 • (MS) R4121281-3 09/18/24 15:15 • (MSD) R4121281-4 09/18/24 15:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
Chromium, Hexavalent	0.200	ND	0.105	0_107	52.4	53.7	1	85.0-115	J6	J6	2.39	20





QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Kjeldahl Nitrogen, TKN

Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 351.2

(MB) R4121460-4 09/18/24 21:34 MB Result MB Qualifier MB MDL Analyte mg/l mg/l

U

mg/l

0.250

MB RDL

Ss

Laboratory Control Sample (LCS)

(LCS) R4121460-1 09/18/24 21:16

Spike Amount LCS Result LCS Rec. mg/l % mg/l

Rec. Limits %

LCS Qualifier

127

Analyte Kjeldahl Nitrogen, TKN 4.00 4.23 106 90.0-110



L1776021-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

0.140

(OS) L1776021-02 09/18/24 21:18 • (MS) R4121460-2 09/18/24 21:23 • (MSD) R4121460-3 09/18/24 21:25

Spike Amount Original Result MS Result MSD Result MS Rec. Analyte %

mg/l mg/l mg/l 4.00 1.71 6.78

mg/l 6.54

MSD Rec. % 121

Dilution Rec. Limits % 90.0-110

2

MS Qualifier MSD Qualifier <u>J5</u> <u>J5</u>

RPD RPD Limits % % 3.60 20

Sc

GI

QUALITY CONTROL SUMMARY

L1776394-01

Wet Chemistry by Method 360 $_{\circ}$ 1

L1776394-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1776394-01 09/13/24 10:43 • (DUP) R4119439-1 09/13/24 10:43

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP</u> Qualifier	DUP RPD Limits
Analyte	mg/l	mg/I		%		%
Dissolved Oxygen	8.11	7_91	1	2.50		10



















Analyte

Analyte Chlorine,residu

Chlorine, residual

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

(MB) R4119466-1 09/13/24 11:16

Wet Chemistry by Method 4500Cl G-2011

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 0.0260
 0.100



Тс

Ss

L1775714-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1775714-01 09/13/24 11:17 • (DUP) R4119466-4 09/13/24 11:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
ual	0.117	0,116	1	0.858		20







(OS) L1776977-08 09/13/24 11:22 • (DUP) R4119466-5 09/13/24 11:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chlorine, residual	1.68	1.67	1	0.179		20





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4119466-2 09/13/24 11:16 • (LCSD) R4119466-3 09/13/24 11:16

Spike Amount LCS Result LCSD Result L

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Chlorine,residual	1.00	1.07	1.07	107	107	85.0-115			0.374	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 4500CN-E

L1776394-01

Method Blank (MB)

Analyte

Cyanide

Analyte

Cyanide

(MB) R4119678-1 09/13/24 17:01

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 0.00430
 0.0100

Ср

Тс

Laboratory Control Sample (LCS)

(LCS) R4119678-2 09/13/24 17:01

 Spike Amount
 LCS Result
 LCS Rec.
 Rec. Limits
 LCS Qualifier

 mg/l
 %
 %

 0.100
 0.0931
 93.1
 85.0-115



Ss

6

L1776954-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776954-02 09/13/24 17:01 • (MS) R4119678-3 09/13/24 17:01 • (MSD) R4119678-4 09/13/24 17:01

Spike Amount Original Result MS Result MS Rec. MSD Rec. MSD Result Dilution Rec. Limits MS Qualifier MSD Qualifier RPD **RPD Limits** % % Analyte mq/I mg/l mg/l mg/l % % % 0.100 0.0232 Cyanide 0.104 0.0988 80.4 75.6 20 85.0-115 <u>J6</u> <u>J6</u> 4.71



⁸Al

Sc

L1776954-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776954-03 O9/13/24 17:01 • (MS) R4119678-5 O9/13/24 17:01 • (MSD) R4119678-6 O9/13/24 17:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/ł	mg/l	%	%		%			%	%
Cyanide	0.100	0.0213	0.102	0.106	80.7	84.2	1	85.0-115	<u>J6</u>	<u>J6</u>	3.37	20

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

Phosphorus, Total

Wet Chemistry by Method 4500P-E

(MB) R4120319-1 09/	16/24 15:21					
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l		_
Phosphorus,Total	U		0.0152	0.0500		3
Laboratory Cor		CS)				4
(LCS) R4120319-2 09	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	L
Analyte	mg/l	mg/l	%	%	<u> 265 dadimer</u>	5
Phosphorus,Total	0.500	0.525	105	80 0-120		
I 1776210 02 0.	iainal Campla	(OC) Mot	risa Conilana /	MC) Matri	Caller Duralizate (MCD)	0
					Spike Duplicate (MSD)	7
(OS) L1776219-02 09	/16/24 15:21 • (MS) R	4120319-3 09	/16/24 15:22	(MSD) R41203	3-4 09/16/24 15:22	
		Original Result		MSD Result	MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits	

%

80.0-120

PROJECT:

%

0.634

%

20

mg/I

0.500

mg/l

ND

mg/l

0.551

mg/l

0.547

%

104

%

104

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MR)

Wet Chemistry by Method 5210 B-2016

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/I		mg/l	mg/l
BOD	U		0.200	0.200
	U		0.200	0.200

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
BOD	1.31	1.53	1	15.5		20

Laboratory Control Sample (LCS)

(LCS) R4120236-2 09/16/24 12:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
BOD	198	207	105	85-115	







QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Wet Chemistry by Method 5210 B-2016

(MB) R4120730-1 O	9/17/24 12:48			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/l
CBOD	0.205	<u>B1</u>	0.200	0.200

L1776371-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1776371-01 09/17/24 12:57 • (DUP) R4120730-3 09/17/24 13:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
CBOD	ND	1.25	1	200	<u>P1</u>	20

L1776836-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1776836-02 09/17/24 13:30 • (DUP) R4120730-4 09/17/24 13:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
CBOD	1.00	ND	1	200	<u>P1</u>	20

Laboratory Control Sample (LCS)

(LCS) R4120730-2 09/17/24 12:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
CBOD	198	192	96.9	85-115	



PROJECT:

Sc

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

COD

COD

(MB) R4119522-1 09/13/24 13:02

Wet Chemistry by Method 5220D

MB Result MB Qualifier MB MDL MB RDL mg/l mg/l mg/l mg/l

16_1

35.0





Laboratory Control Sample (LCS)

U

(LCS) R4119522-2 09/13/24 13:02

	Spike Amount	LCS Result	LCS Rec	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/I	%	%	
COD	500	522	104	80-0-120	





L1775631-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775631-01 09/13/24 13:02 • (MS) R4119522-3 09/13/24 13:02 • (MSD) R4119522-4 09/13/24 13:02

53.6

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
COD	500	89.2	564	562	95.0	94.6	1	80.0-120			0.372	20

95.4





9 Sc

L1776266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

529

531

(OS) L1776266-01 09/13/24 13:02 • (MS) R4119522-5 09/13/24 13:02 • (MSD) R4119522-6 09/13/24 13:02 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte mq/l mg/l mg/l mg/l % % %

95.0

500

80.0-120

0.395

20

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

Analyte

(MB) R4121356-1 09/17/24 14:12

Wet Chemistry by Method 5310C

MB Result MB MDL MB Qualifier MB RDL mg/l mg/l mg/l

TOC (Total Organic Carbon) U 0.270 0.700

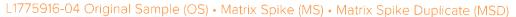
Laboratory Control Sample (LCS)

(LCS) R4121356-2 09/17/24 14:51

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier mg/l % % mg/l TOC (Total Organic Carbon) 10.0 10.3 103 90.0-110







(OS) L1775916-04 09/17/24 17:19 • (MS) R4121356-3 09/17/24 15:58 • (MSD) R4121356-4 09/17/24 16:17

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	ND	10.3	10.4	99.3	100	1	80.0-120			0.676	20







L1776262-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776262-05 09/17/24 19:33 • (MS) R4121356-5 09/17/24 16:38 • (MSD) R4121356-6 09/17/24 16:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	9,00	18.9	18.9	99.0	98.5	1	80.0-120			0.265	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1776394-01

L1776808-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1776808-01 09/17/24 09:15 • (DUP) R4120592-2 09/17/24 09:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	SU	su		%		%
рН	8.03	8.02	1	0.125		20



Тс







Sample Narrative:

OS: 8.03 at 19.8C DUP: 8.02 at 19.6C

Laboratory Control Sample (LCS)

(LCS) R4120592-1 09/17/24 09:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	ŞU	%	%	
pH	6.00	5.99	99.8	99 0-101	



GI





Sample Narrative:

LCS: 5.99 at 20.6C



QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

Analyte

Ammonia Nitrogen

Ammonia Nitrogen

Ammonia Nitrogen

(MB) R4120932-1	09/16/24	15:56
		MB Result

MB Qualifier MB MDL MB RDL mg/l mg/l mg/l

0.100

Laboratory Control Sample (LCS)

0.0598

5.00

5.00

Wet Chemistry by Method SM4500NH3H

(LCS) R4120932-2 09/16/24 15:57

Spike Amount LCS Result mq/l mg/l

5.10

LCS Rec. % 102

0.0280

LCS Qualifier

GI



L1776212-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776212-01 09/16/24 16:28 • (MS) R4120932-3 09/16/24 15:59 • (MSD) R4120932-4 09/16/24 16:01

MSD Result Spike Amount Original Result MS Result MS Rec. Analyte mg/I %

mq/l mg/l 0.205 5.07 mg/l 5.06

98.6

Rec. Limits

80.0-120

%

MSD Rec. % 97.3 97.1

99.8

Dilution Rec. Limits % 80.0-120

Rec. Limits

80.0-120

MS Qualifier

MS Qualifier MSD Qualifier RPD %

MSD Qualifier

0.197

RPD

%

1.18

RPD Limits 20

RPD Limits

%

20



L1776262-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776262-05 09/16/24 16:30 • (MS) R4120932-5 09/16/24 16:03 • (MSD) R4120932-6 09/16/24 16:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution
Analyte	mg/l	mg/l	mg/l	mg/l	%	%	
Ammonia Nitrogen	5.00	0.122	5.05	5.11	98.6	99.8	1

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Analyte

(MB) R4119533-1 09/13/24 11:47

Mercury by Method 245.1

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

Mercury U 0.000100 0.000200

Ср







(LCS) R4119533-2 09/13/24 11:49

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier mg/l % %

Analyte mg/l mg/l % %
Mercury 0.00300 0.00303 101 85.0-115







(OS) L1776025-07 09/13/24 11:52 • (MS) R4119533-4 09/13/24 11:57 • (MSD) R4119533-5 09/13/24 11:59

Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD **RPD Limits** % Analyte mq/I mq/l mg/l mg/l % % % Mercury 0.00300 ND 0.00312 0.00303 104 101 70.0-130 2.91 20







L1776121-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776121-04 09/13/24 12:02 • (MS) R4119533-6 09/13/24 12:09 • (MSD) R4119533-7 09/13/24 12:11

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00303	0.00310	101	103	1	70.0-130			2.20	20

QUALITY CONTROL SUMMARY

L1776394-01

Method Blank (MB)

Metals (ICP) by Method 200.7

(MB) R4124170-1 09/25/24	1 08:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Aluminum	U		0.0592	0,200
Antimony	U		0.00398	0.0100
Arsenic	U		0.00645	0.0100
Barium	U		0.000795	0.00500
Beryllium	U		0.000401	0.00200
Cadmium	U		0.000552	0.00200
Chromium	U		0.00163	0.0100
Copper	U		0.00226	0.0100
Lead	U		0.00227	0.00500
Nickel	U		0.00182	0.0100
Selenium	U		0.00616	0_0100
Silver	0.00577		0.00131	0.00500
Thallium	U		0.00460	0.0100
Zinc	U		0.00578	0.0500

















Laboratory Control Sample (LCS) (LCS) R4124170-2 09/25/24 08:25

(100) 1112-1170 2	03/23/24 00.23
	Spike Ar
Analyte	mg/l

(LCS) NTIZTI 0-2	03/23/24 00.23				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	3
Aluminum	10.0	10.5	105	85.0-115	
Antimony	1.00	0.979	97.9	85,0-115	
Arsenic	1.00	0.998	99.8	85.0-115	
Barium	1.00	1.04	104	85.0-115	
Beryllium	1.00	1.02	102	85 0-115	
Cadmium	1.00	0.983	98.3	85.0-115	
Chromium	1,00	1.01	101	85.0-115	
Copper	1.00	1.00	100	85.0-115	
Lead	1.00	0.998	99.8	85_0-115	
Nickel	1.00	0.970	97.0	85.0-115	
Selenium	1.00	0.982	98.2	85.0-115	
Silver	0.200	0.202	101	85.0-115	
Thallium	1.00	1.05	105	85.0-115	
Zinc	1.00	1.02	102	85.0-115	

Sc

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Nickel

Silver

Zinc

Thallium

Selenium

QUALITY CONTROL SUMMARY

Dilution Rec. Limits

4

1

%

70.0-130

70,0-130

70.0-130

70.0-130

70.0-130

70.0-130

70.0-130

70.0-130

70.0-130

70.0-130

70.0-130

70_0-130

70_0-130

70.0-130

MS Qualifier

MSD Qualifier

RPD

%

3.64

5.48

5.75

5.28

5.01

4.90

4.38

4.73

5.04

5.51

4.66

4.16

5.11

5.34

RPD Limits

%

20

20

20

20

20

20

20

20

20

20

20

20

20

20

Metals (ICP) by Method 200.7

10.0

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

0.200

105

101

103

104

101

99_7

101

101

101

97.7

102

98.9

105

101

L1776475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

10.1

0.952

0.974

0.996

0.960

0.949

0.968

0.961

0.956

0.925

0.970

0.192

1.00

L1776589-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

0.962

10.5

1_01

1.03

1.05

1.01

1.01

1.01

1.01

0.977

1.02

0.201

1.05

1.01

0.997

101

95,2

97.4

98.9

96.0

94.9

96.8

96.1

95,6

92.5

97_0

94.8

100

96.2

(OS) L1776475-01 09/25/2	4 08:29 • (MS)	R4124170-4 09	9/25/24 08:35	 (MSD) R41241 	70-5 09/25/24	08:39
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.
Analyte	mg/I		mg/l	mg/l	%	%

ND

ND

ND

ND

ND

ND

ND

ND

ND



















Ь			
ľ	S	C	

(OS) L1776589-03	09/25/24 08:42 • (MS) R4124170-6	09/25/24 08:45 •	(MSD	R4124170-7	09/25/24 08:49

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Aluminum	10.0	ND	10.4	10.4	104	104	7	70.0-130			0,382	20
Antimony	1.00	ND	0.989	0.976	98.9	97.6	Ĭ	70_0-130			1.32	20
Arsenic	1.00	ND	1.01	1.01	101	101	1	70_0-130			0.508	20
Barium	1.00	ND	1.03	1.03	103	103	1	70.0-130			0,149	20
Beryllium	1.00	ND	1.00	1.00	100	100	1	70.0-130			0.110	20
Cadmium	1.00	ND	0.991	0.985	99.1	98.5	1	70.0-130			0.585	20
Chromium	1.00	ND	1.01	1.02	101	102	3	70.0-130			0.561	20
Copper	1.00	ND	0.993	0.999	99.3	99.9	1	70.0-130			0.649	20
Lead	1.00	ND	0.993	0.991	99.3	99.1	1	70.0-130			0.250	20
Nickel	1.00	ND	0.968	0.966	96.8	96.6	3	70.0-130			0.253	20
Selenium	1.00	ND	1.00	0.991	100	99.1	3	70.0-130			0,943	20
Silver	0.200	ND	0,198	0.199	99.1	99.3	1	70.0-130			0.205	20
Thallium	1,00	ND	1.05	1.05	105	105	1	70.0-130			0.202	20
Zinc	1.00	ND	1.01	1,01	101	101	1	70.0-130			0.262	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

times of preparation and/or analysis.

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference,
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable),
Analyte	The name of the particular compound or analysis performed, Some Analyses and Methods will have multiple analytes reported, $_{\scriptscriptstyle\parallel}$
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process, if present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

Qualifier	Description	
В	The same analyte is found in the associated blank.	_
B1	The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.	
J	The identification of the analyte is acceptable; the reported value is an estimate.	
J3	The associated batch QC was outside the established quality control range for precision.	
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.	
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.	
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.	
Т8	Sample(s) received past/too close to holding time expiration.	



Sample Summary (Ss)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and



















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

EPA-Crypto	TN00003		
Canada	1461,01	USDA	P330-15-00234
A2LA – ISO 17025 ⁵	1461.02	DOD	1461,01
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
Montana	CERT0086	Wyoming	A2LA
Missouri	340	Wisconsin	998093910
Mississippi	TN00003	West Virginia	233
Minnesota	047-999-395	Washington	C847
Michigan	9958	Virgínia	110033
Massachusetts	M-TN003	Vermont	VT2006
Maryland	324	Utah	TN000032021-11
Maine	TN00003	Texas ⁵	LAB0152
Louisiana	LA018	Texas	T104704245-20-18
Louisiana	Al30792	Tennessee 1 4	2006
Kentucky ²	16	South Dakola	n/a
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kansas	E-10277	Rhode Island	LAO00356
Iowa	364	Pennsylvania	68-02979
Indiana	C-TN-01	Oregon	TN200002
Illinois	200008	Oklahoma	9915
Idaho	TN00003	Ohio-VAP	CL0069
Georgia ¹	923	North Dakola	R-140
Georgia	NELAP	North Carolina ³	41
Florida	E87487	North Carolina 1	DW21704
Connecticut	PH-0197	North Carolina	Env375
Colorado	TN00003	New York	11742
California	2932	New Mexico ¹	TN00003
Arkansas	88-0469	New Jersey-NELAP	TN002
Arizona	AZ0612	New Hampshire	2975
Alaska	17-026	Nevada	TN000032021-1
Alabama	40660	Nebraska	NE-OS-15-05



Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable





















30 of 38

^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report,

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical,

Company Name/Address			Billing Info	Billing Information			Analysis / Container / Preservative								Chain of Custody	Page 9 of 4				
Enviro-Ag Engineering			3404 Air	ryan Mullin 104 Airway Blvd. marillo, TX 79118		Pres Chk											Pac	e Analytical *		
3404 Airway Blvd. Amarillo, TX 79118		711101110														Aug 111 20011	,			
Report to:	=				ig.com;rgeorge@en												190 Allen, T)	K 75013		
Jourdan Mullin				om;mshoemakei nviroag.com	@enviroag.com;jm	ullin@e											Submitting a sample of			
Project Description:		City/State			Please C	ircle:					I	4					Hazz Terms and Const.			
Pollutant Permit		Collected:			PT MT	CT ET				Ö		SS					Tres (Verlis playelate) vi Sermi-soft	selfentives statement		
Phone: 254-965-3500	Client Project			Lab Project	#		Pres	s s	Pres	PE-Na	HCI	500mIHDPE-Add H2SO4	s e	304	es	250mIHDPE-NoPres	SDG # U7	76394		
Lisa Postmus	Site/Facility ID	#		P.O. #			125mlHDPE-NoPres	NoPres	E No	OmITC	nb-Ad	IDPE-,	1L-HDPE NoPres	250mlAmb-H2SO4	1L-HDPE-NoPres	OPE-N	Table # Acctnum: DS	ENVIGDTX		
Collected by (signature)		ab MUST Be		Quote #			물	TOPE	-HD	M 25	L-An	0mIH	IDPE	mlArr	IDPE	II.	Template: T2			
Immediately Packed on Ice N Y		y Five i 5 Day 10 Da	(Rad Only)			Only) Date Results N		No.	K 125n	OD 1L-HDP	ALLCBOD 1L-HDPE NoPres	ALLCN/ CNAM 250mlHDPE-NaOH	ALLOGHEX 1L-Amb-Add HCI	108 50	JS 1L-F				Prelogin: P10 PM: 3566 - Doro PB:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Date Time		ALLALK	ALLBOD	ALLCE	ALLCI	ALLO	ALLPHOS	ALLTDS	ALLTOC	ALLTSS	CHLORR	Shipped Via: F	Sample # (lab snly)		
Schreiber Imigati	in	ww				15	X	Х	Х	Х	Х	Х	X	X	Х	Х		ð1		
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													L	L						
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	narks: Field T Metals,		- Ba,Be,Cd,	Cr,CR6,CR3	,Cu,Pb,Ni,Se,A	g,TI,Zn,	, Hg			pH Flow		_ Temp			COC Si Bottle	al Pr igned/ as arr	le Receipt Charlesent/Intact: Accurate: ive intact:	NP Y N Y N		
DW - Drinking Water San	nples returned v UPSFedEx	Tracking #						Correct bot				cient ero He	volume sent: <u>It Applicable</u> adspace:	YN						
Relinquished by (Signature)	Dat		Time. Received by: (Signature)			ture)	Pa	ce A	=TX	rip Blan	k Recei		es / No HCL / Me TBR	оН	Prese:	rvatio creen	n Correct/Che	cked: Y N		
Relinquished by : {Signature}	Dat	e:	Time	Re	celved by: (Signat	ture)			T	emp:	0	2 Bott	ES Receiv	red:	If prese	rvation	required by Logi	in: Date/Time		
Relinquished by : (Signature)	Dat	e:	Time	Re	ceived for lab by:	(Signatu	ire)		C	Date:		Tim	2:		Hold:	ī		Condition: NCF / OK		

Company Name/Address:			Billing Info	ng Information:				Analysis / Container / Preservative								Page to of 15		
Enviro-Ag Engineering			3404 Ain	yan Mullin 04 Airway Blvd. narillo, TX 79118		Pres Chk									Pac	e Analytical °		
3404 Airway Blvd. Amarillo, TX 79118			Pallatino	, 170 13110				d H2	Pres							,		
Report to:				To: cmullin@enviroag.com;rgeorge@enviroag.c				A P	2	les Se					190 Allen, T	X 75013		
Jourdan Mullin		om;msnoemaki nviroag.com			aker@enviroag.com;jmultin@e			ம்	ம்	ᆼ			-			a this chain of coorde		
Project Description:		City/State	-	100 Talanda = - - om 240-2	Please (Circle:	Í		占	Z					Vary ferms and Children			
Pollutant Permit		Collected:			PT MT	CT ET	М	들	Ē	퓝					trattis.off	manth and Market		
Phone: 254-965-3500	Client Proj	ect #		Lab Project #			250mIHDPE HNO3	500mIHDPE-Add	500mIHDPE-NoPres	25mIHDPE-NoPres					SDG #			
Collected by (print)	Site/Facilit	v ID #		P.O. #			250n	X	8	-					Table #			
Usa Postnus							pec	F H3	CR3,	anioins,pH						ENVIGDTX		
Collected by (signature):		Lab MUST Be		Quote #					site spec	COD,NH3	WetChem CR6, (ioir					Template: T2 Prelogin: P10	
Turut	Next	Day 5 Da	(Rad Only)	Date Resu	ilts Needed	T		S	Ö						PM: 3565 - Doro			
Immediately Packed on Ice N Y	Two	Day 10 D	ay (Rad Only)			No. of	0	le le	le l	le l		Jei Jei		Jen		PB:	PB:	
		T			-	Cntrs	als	ġ,	Ò	Ď	WetChem				Shipped Via: F	edEX Ground		
Sample 1D	Comp/Gra	b Matrix *	Depth	Date	Time	-	Metals ICP	WetChem (Se	Ş					Remarks	Sample # (latt on/y)		
Schreiber Irrgation	yn	ww				15	Х	Х	X	X								
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		-				-		-		-			-					
* Matrix: Re SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	marks: Fiel Met		,Ba,Be,Cd,	Cr,CR6,CR3,C	u,Pb,Ni,Se,A	ıg,Tl,Zn	, Hg				T			COC Sto Bottles	Sample Receipt Ch il Present/Intact: ned/Accurate: arrive intact: bottles used:			
V - Drinking Water Samples returned via: UPS FedEx Courier Tracking #										Suffici	ent volume sent: If Applicab; to Headspace:	Y N						
Relinquister by (Signature)						ture)	- Po	(ce)	7TX	Trip Blank	Received:	Yes / No HCL / M		Preserv	reen <0.5 mR/hr:			
Relinquished by : (Signature)		Date:	Time	Rece	ved by: (Signa	ture)			Т	Гетр:	°C	Bottles Rece	eived:	If preservation required by Login: Date/Time				
Relinquished by : (Signature)	(Signature) Date: Time: Received for lab by: (: (Signatu	ıre)		C	Date:		Time:		Hold:		Condition: NCF / OK			



DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receipt

Courier: FedEX D UPS D USPS D Client LSO D PACE D Other: Tracking #: Custody Seal on Cooler/Box: Yes D No D	Work order (place label): °C: D. Le (Recorded) 1 - D (Correction Factor) 0 - (AActual)
Chain of Custody relinquished	Yes g/ No 🗆
Sampler name & signature on COC	Yes No 🗆
Short HT analyses (<72 hrs)	Yes & No 🗆
Temperature should be above freezing to 6°C unless collected same Triage Person: Date:	day as receipt in which evidence of cooling is acceptable.
Sufficient Volume received	Yes p No p
Correct Container used	Yes P No 🗆
Container Intact	Yes cy No D
Sample pH Acceptable pH Strips: 0402007 Residual Chlorine Present Cl Strips: 14860 Sulfide Present Lead Acetate Strips: 14862	Yes O NO NA O Yes O NO NA O
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes D No D NA D
Unpreserved 5035A soil frozen within 48 hrs	Yes D No D NA D
Headspace in VOA (>6mm)	Yes D No D NA D
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes D No D NA D
Non-Conformance(s):	Yes of No ci
Login Person: Date:	
Labeling Person (if different than log-in)	Date:

Qualtrax ID: 48806

Coinnany Name Address,	-		Billing Info	rmation				= 111		Arialysis	/ Conta	mer / P	reservat	Ve-	Thain of Custody Page		ov Page of	
Enviro-Ag Engineering				lullin way Blvd. 2, TX 79118		Pres Chk											Pa) ce Analytical *
3404 Airway Blvd. Amarillo, TX 79118								İ										
Report to			Email To	cmullin@enviro	ag.com;rgeorge@e	Oviroad.c		1		1				1			190 Allen, 1	TX 75013
Jourdan Mullin				om;mshoemak nvirozg;com	or@enviroag.com;jn	nullin@e	1							1	1		darther contra	A finish of white
Project Description		City/State	-		Please	Circle	†			-		4				4	The Proposition of the Control	CONTRACTOR OF THE PARTY OF THE
Pollutant Permit		Collected			PT MT	CT ET				ō		SC			1	1	forms white players	communicación de proceso de la compansión de la compansió
Phone 254-965-3500	Client Projec	t u	7 To 6 10 10 10 10 10 10 10 10 10 10 10 10 10	Lab Projec	: #		Pres	s	Sez	PE-Na	HCI	Add H2	S O	304	S	oPres	SDG # UF	76394
Collected by Ispet	Site/Facility t	D#		PO #			PE-No	1L-HDPE NoPres	E No	OmilHD	nb-Ado	DPE-	1L-HDPE NoPres	1b-H25	1L-HDPE-NoPres	250mIHDPE-NoPres	Acconum D	SENVIGDTX
Collected by (signatura):		Lac MUST Be		Quote #			물	4DPE	H	M 25	L-An	0mlH	DPE	mlAm	DPE	H	Template: T2	
Immediately Packed on Ice N X	Next D	10 0 10 0 10 0 10 0 10 0 10 0 10 0 10	visid Only,	Date F	esults Needed	No pr	ALLALK 125miHDPE-NoPre)D 1L-F	ALLCBOD 1L-HDPE NoPres	ALLCN/ CNAM 250mIHDPE-NAOH	ALLOGHEX 1L-Amb-Add HCI	ALLPHOS 500mlHDPE-Add H2SO4	S 1L-H	ALLTOC 250mlAmb-H2SO4	S 1L-H		Prelogin: P1 (PM: 3866 - Dor P8:	
Sample ID	Comp/Gras	Matrix *	Depth	Date	Time	Cotrs	₹	ALLBOD	LCE	2	Ö	I.P.	ALLTDS	LT	ALLTSS	CHLORR	1	edEX Ground
	,						¥	¥	Ā	¥	¥	Ā	¥	Ā	₹	Ö	(Remarks	79-0% (30 04A)
Schreiher Inig	ahin	ww				15	X	X	X	Х	X	X	X	Х	X	X		01
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• Matrix SS - Soil AIR Air F Filter GW Groundwijter B Bloassay	Remarks: Field Metals	TEMP	Ba,Be,Cd,	Cr,CR6,CR3	,Cu,Pb,Ni,Se,A	g.TI,Zn,	Hg			αН		Temp			G0G 37	A Ex	A Beceigt Ch emply Special Schools	
WW - WasteWater DW - Drinking Water	Samples returned	Λίγ.						-		Flow		Other		-	STEET	1 160	7 18 18 11 1 18 18 11	
OT - Otner	UPS FedEx			Tr	acking #						-				VOA Da	r de	in Application surpaints	1 1
Relinquished by Tsignaturel	Da	111/24	Time /2	30 1	cerved by (Signal	- C	Pa	ce A	=TX	rip Blani	k Receiv		rs / No HCL / Mei rBR	эн	KAL 3	reer	JT 20=5	19
Relinquished by Signature Ays in Fu	mos/PACE	111/14	Time	100	ceived by (Signal	edex	6	9	1/11/	7/ /	700	Botti	es Receiv	ed:			required by Log	in: Date/Time
Reinquished by (Signature)	0.0	Hefret	Time		ceived for lab by:	(Signatu		5		7.12	.24	Time	990		Hold:			Condition: NCF / OK

Company Name/Address			String info	ormation.					7	Anaburis	Contin	or / Prasary	(m) to con-			(harm =4.2) is	
Enviro-Ag Engineering	9		Bryan N 3404 Air			Pres Cnk				10016041	, dutan	W. Fresh	anve			_ Chain of Custo	7
3404 Airway Blvd. Amarillo, TX 79118			Amamic), IX /9110				500mIHDPE-Add H2	res								ce Analytical
Report to			Email To	стинифенчиоад	com;rgeorga@e	nviroag.c	-	Add	9	SS						190 Allen,	TX 75013
Jourdan Mullin				om mshoemaker@ nviroag.com	enviroag com;)m	- Bgrattur	õ	ш ш	益	۾ آ							via michael Playforty
Project Description		City/State			Please (incie	Ŧ	4	9	ž				- 1		Part some are the	Billian 190 years an exchange of
Pollutant Permit		Collected			PT MT	CT ET	끮	픋	풀	PE				1		"fra Colle Heles	Complication in the last war
Phone 254-965-3500	Client Pro	yect ≓		Lab Project #			spec 250mlHDPE HNO3	500	500mlHDPE-NoPres	125mlHDPE-NoPres						SDG #	
Collected by (print)	Site/Facil	ty ID #		:PO =			250n	TK N	8							Table #	
LISA YOSTINU				Out to the			pad	É I 3	CR3,	anioins,pH					Ì		SENVIGDTX
18-		7 ILab MUST 8e		Quote #			site s	COD	CR6,	rioir					ļ.	Template: T Prelogin: P1	
Immediately Packed on Ice N y X	Ver	10ay 50ay		Date Resi	its Needed	No	ICP s	Em C	E C	em ar							rothy P Roberts
Sample ID		ab Matrice	Depth	Date	Time	2f Cntrs	Metals ICP	WetChem (WetChem	WetChem						-	FedEX Ground
21 116 7							₩ B	W K	We	Š						Notes art (Sample # (apinety
Week 3	HOn	WW				15	X	X	X	X			+-	-			
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	i															7.095	
Matrix	Remarks: Fiel	d TEND								1			i.				
Soil AIR Ain F hiter W Groundwater B Bioassay W WasteWater	Met	als, Al,Sb,As,	Ba,Be,Cd,(Cr,CR6,CR3,Ct	ı,Pb,Ni,Se,Aç	g,TI,Zn,	Hg			pH Flow =		Temp		Serries	ni liter Inetific Lassi	Receipt Ch Tent/Intact: Turate: The Anthots	BELY K
W - Orinking Water T - Other	Samples return	ed via: Ex Courier		Track	ng #									Buitic.	451 _	ing minde Lump exit; D Appliques	×
elinquisticov (Synature)		9/11/2	Times	1230 K	of by (Signat	/-	Post	o A	TY	ip Blank	Received	1: Yes/No		940 H	estion part up	2.07	AS
Curul Aysen famo	s/PACE	9/11/24	17	200	elf by: Signati	Feel	Ex	1	Te	9/11	1/24	Battles Rece	wed	If presen	vation re	equired by Log	in: Date/Time
FCOLEX		Date'	Time	Receiv	red for lab by: (Signatur J 140	in G	,	Da 9	ite:	4	Time:	∞	Hold:			Condition: NCF / OK

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DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receip	Sample	Condition	Hoon	Recein
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Sample Cond	ition Upon Receipt
	DCorpus Christi ElAustin
Tracking #:	t Work order (place label):
Custody Seal on Cooler/Box: Yes D No	
Receiving 1 ah 1 Thormon start 1 and 1 7 1 8	0/2
Receiving Lab 2 Thermometer Used: (cooler Tem	p°C: Ó. le (Recorded) 1 - O (Correction Factor) O - Le Actual)
Contracting	p °C: (Recorded) (Correction Factor) (Actual)
Chain of Custody relinquished	Yes CY No ti
Sampler name & signature on COC	Yes W No a
Short HT analyses (<72 hrs)	Yes et No n
Temperature should be above freezing to 6. C unless collected same	day as receipt in which evidence of cooling is accordable
Triage Person: Date 7/11	is acceptance
Sufficient Volume received	Yes C/No n
Correct Container used	Yes & No 13
Container Intact	Yes y No D
Sample pH Acceptable pH Strips: 0402007	Yes, No D NA D
Residual Chlorine Present Cl Strips: 145(20)	Yes ii No Ø NA a
Sulfide Present	Yes a No & NA a
Lead Acetate Strips: 1487e 2	Yes a No 20 NA a
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes o No o NA
Unpreserved 5035A soil frozen within 48 hrs	Yes D No D NA V
Headspace in VOA (>6mm)	Yes a No a NA a
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes a No a NA 9
Non Conformance(s):	Yes No D
	163 % MO []
.ogin Person: Date	
abeling Person (if different than log-in):	Date

Qualtrax ID 48806

Page 1 of 1

Time estimate: Oh	Time spent: 0h
Members	
OC Olivia Currie (responsible) OPI	Dorothy Roberts
1 . If Chain-of-custody (COC) is not	received: contact client and if necessary, fill out a COC and indicate
that it was filled out by lab personnel. I	Note issues on this NCF.
2. If COC is incomplete, check appl	icable issues below and add details where appropiate:
*Collection date/time missing or in	correct
*Analyses or analytes: missing or C	larification needed
*Samples listed on COC do not mat	cch samples recieved (missing, additional,etc.)
*Sample IDs on COC do not match	sample Labels
*Required trip blanks were not reco	eived
*Required signatures are missing	
3. Sample integrity issues: check ap	oplicable issues below and add details where appropriate:
*Samples: Past holding time	
*Samples: Not Field Filtered	
*samples: Insufficent volume recei	ved
*Samples: Cooler damaged or com	promised
*Samples: contain Chlorine or Sulf	ide
*Samples: condition needs to be br	ought to lab personnel's attention (details below)
*Containers: Broken or compromis	ed
*Containers: Incorrect	
*Custody Seals: missing or compro	mised on samples, trip blanks or coolers
*Packing Material: Insufficient/Im	proper
*Preservation: improper	
*Temperature:not witin acceptance	e criteria (typically 0-6C)
*Temperature: Samples arrived fro	zen
*Vials received with improper head	space
*Other:	
4. If Samples not preserved proper	ly and Sample Receiving adjusts pH, add details below:
Sample ID:	
Preserved by:	
Date/Time:	
Initial and Final pH:	
Amount/type pres added:	
Lot # of Pres added:	
5. Client contact: If Client is Contact	cted for any issue listed above, fill in details below:
Client:	
✔ PM Initials:dpr	
Contacted per:	
Date/Time: 09-11-24 1540; 9/12 15	40 / 9/13 1256

Comments



Pace Analytical* ANALYTICAL REPORT

October 28, 2024



















Enviro-Ag Engineering

Sample Delivery Group:

L1789862

Samples Received:

10/17/2024

Project Number:

Description:

Pollutant Permit

Report To:

Jourdan Mullin

3404 Airway Blvd.

Amarillo, TX 79118

Entire Report Reviewed By: Dowly P Polmts

Dorothy P Roberts Project Manager

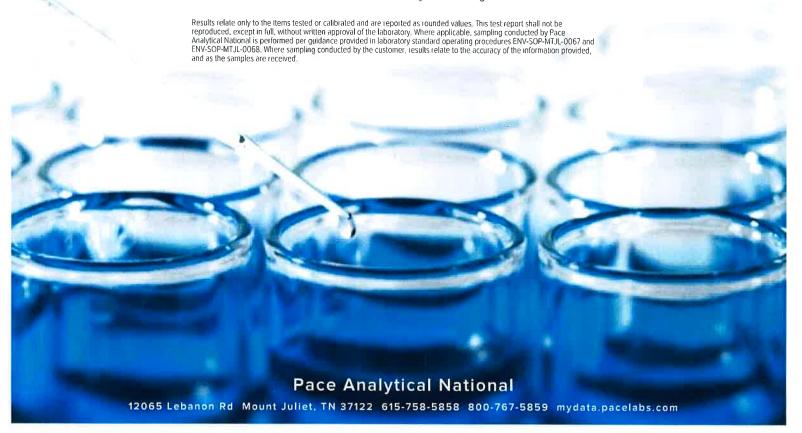


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Sc: Sample Chain of Custody

31

SAMPLE SUMMARY

Collected by

Collected date/time Received date/time





















SCHREIBER IRRIGATION WEEK 4 L1789862-01	WW		Corey Mullin	10/17/24 09:53	10/17/24 12:5	7
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2387681	1	10/23/24 14:02	10/23/24 14:02	EIG	Allen, TX
Calculated Results	WG2387938	81	10/25/24 09:47	10/25/24 09:47	JTM	Mt. Juliet, TN
Gravimetric Analysis by Method 2540C	WG2384442	31	10/17/24 17:21	10/17/24 18:35	TQQ	Allen, TX
Gravimetric Analysis by Method 2540D	WG2386142	3)	10/21/24 04:50	10/21/24 06:06	QQT	Allen, TX
Wet Chemistry by Method 1664B	WG2388420	81	10/24/24 08:22	10/24/24 12:11	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320B	WG2386264	31	10/21/24 09:22	10/21/24 09:22	JBS	Allen, TX
Wet Chemistry by Method 300.0	WG2384266	11	10/17/24 15:30	10/17/24 15:30	SMC	Allen, TX
Wet Chemistry by Method 300,0	WG2384266	31	10/17/24 15:45	10/17/24 15:45	SMC	Allen, TX
Wet Chemistry by Method 300,0	WG2384266	88	10/17/24 17:06	10/17/24 17:06	SMC	Allen, TX
Wet Chemistry by Method 300,0	WG2384266	0	10/17/24 17:21	10/17/24 17:21	SMC	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2383960	1	10/17/24 16:19	10/17/24 16:19	KCM	Allen, TX
Wet Chemistry by Method 351,2	WG2386892	10	10/22/24 10:48	10/22/24 21:00	EIG	Allen, TX
Wet Chemistry by Method 360.1	WG2384786	- 81	10/18/24 09:10	10/18/24 09:10	SKW	Allen, TX
Wet Chemistry by Method 4500Cl G-2011	WG2386049	- 1	10/22/24 16:11	10/22/24 16:11	CAH	Mt. Juliet, TN
Wet Chemistry by Method 4500CN-E	WG2384784	ij	10/22/24 09:30	10/22/24 17:17	KCM	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2388465	3	10/24/24 16:31	10/24/24 16:31	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2386234	50	10/21/24 16:28	10/21/24 16:28	SMC	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2384055	1	10/17/24 15:28	10/22/24 10:46	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2384798	ä	10/18/24 16:48	10/23/24 11:38	SKW	Allen, TX
Wet Chemistry by Method 5220D	WG2386267	2	10/21/24 12:32	10/21/24 13:43	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2386939	1	10/23/24 00:34	10/23/24 00:34	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2386894	Ü	10/22/24 09:40	10/22/24 09:40	JBS	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2387681	1	10/23/24 14:02	10/23/24 14:02	EIG	Allen, TX
Mercury by Method 245_1	WG2384904	1	10/20/24 16:39	10/21/24 13:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2387938	1	10/24/24 17:22	10/25/24 09:47	MTL	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.





















Dorothy P Roberts Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Doutly P Roberts

Lab Sample ID

Project Sample ID

Method

L1789862-01

SCHREIBER IRRIGATION WEEK 4 3500Cr-B

SCHREIBER IRRIGATION WEEK 4 Collected date/time: 10/17/24 09:53

SAMPLE RESULTS - 01

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium,Trivalent	ND		0.00300	1	10/25/2024 09:47	WG2387938
Organic Nitrogen	13.1		0.100	1	10/23/2024 14:02	WG2387681







	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Total Dissolved Solids	3840		250	1	10/17/2024 18:35	WG2384442	





Gravimetric Analysis by Method 2540D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	347		41.7	1	10/21/2024 06:06	WG2386142





Wet Chemistry by Method 1664B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	10/24/2024 12:11	WG2388420



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Wet Chemistry by Method 2320B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Alkalinity	825		20.0	1	10/21/2024 09:22	WG2386264

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chloride	1370		0.800	4	10/17/2024 17:21	WG2384266
Fluoride	ND		0.500	1	10/17/2024 15:30	WG2384266
Nitrate	31.6	<u>J5</u>	0.500	1	10/17/2024 15:45	WG2384266
Sulfate	183	<u>J5</u>	0.700	1	10/17/2024 17:06	WG2384266



Wet Chemistry by Method 3500Cr-B

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/I		mg/l		date / time	
Chromium,Hexavalent	ND		0.00300	1	10/17/2024 16:19	WG2383960

Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	13.2		2.50	10	10/22/2024 21:00	WG2386892



Wet Chemistry by Method 360.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Oxygen	8.86	<u>T8</u>	1	1	10/18/2024 09:10	WG2384786

Wet Chemistry by Method 4500CI G-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	ND	<u>T8</u>	0:100	1	10/22/2024 16:11	WG2386049

SCHREIBER IRRIGATION WEEK 4 Collected date/time: 10/17/24 09:53

SAMPLE RESULTS - 01

Wet Chemistry by Method 4500CN-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	10/22/2024 17:17	WG2384784





Wet Chemistry by Method 4500CN-G

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide,amenable	ND		0.0100	1	10/24/2024 16:31	WG2388465



Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus, Total	10.3		2.50	50	10/21/2024 16:28	WG2386234



Wet Chemistry by Method 5210 B-2016

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
BOD	ND		60 0	1	10/22/2024 10:46	WG2384055
CBOD	ND	<u>B1</u>	60.0	1	10/23/2024 11:38	WG2384798





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Wet Chemistry by Method 5220D

	Result	Qualifier RDL	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/l	mg/l		date / time	_	
COD	576	70.0	2	10/21/2024 13:43	WG2386267	

Wet Chemistry by Method 5310C

,	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
TOC (Total Organic Carbon)	15_1		0,700	1	10/23/2024 00:34	WG2386939	

Wet Chemistry by Method SM 4500-H+B

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	SU			date / time	_ _
рН	8.20	<u>T8</u>	1	10/22/2024 09:40	WG2386894

Sample Narrative:

L1789862-01 WG2386894: 8,2 at 20,2C

Wet Chemistry by Method SM4500NH3H

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.106		0.100	1	10/23/2024 14:02	WG2387681

Mercury by Method 245.1

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	10/21/2024 13:04	WG2384904

Collected date/time: 10/17/24 09:53 SCHREIBER IRRIGATION WEEK 4

Metals (ICP) by Method 200.7

SAMPLE RESULTS 0

Zinc	Thallium	Silver	Selenium	Nickel	Lead	Copper	Chromium	Cadmium	Beryllium	Barium	Arsenic	Antimony	Aluminum	Analyte		
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0362	ND	ND	0.898	mg/l	Result	
															Qualifier	
0.0500	0.0100	0.00500	0.0100	0.0100	0.00500	0.0100	0.0100	0.00200	0.00200	0.00500	0.0100	0.0100	0.200	mg/l	RDL	
	_	_		-	_	- 40		- 14) <u>—</u> ()		4				Dilution	
10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	10/25/2024 09:47	date / time	Dilution Analysis	
WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938	WG2387938		Batch	
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Enviro-Ag Engineering ACCOUNT:

SDG: L1789862

QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540C

Method Blank (MB)

(MB) R4134965-1 10/17/24 18:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/l
Total Dissolved Solids	U		25.0	25.0

Ср





L1788671-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1788671-03 10/17/24 18:35 • (DUP) R4134965-3 10/17/24 18:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	510	543	1	6.27		10







(OS) L1788671-04 10/17/24 18:35 • (DUP) R4134965-4 10/17/24 18:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	896	567	1	45.0	J3	10







Laboratory Control Sample (LCS)

(LCS) R4134965-2 10/17/24 18:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/t	mg/l	%	%	
Total Dissolved Solids	2260	2530	112	85.0-115	



Analyte

Suspended Solids

QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540D L1789862-01

Method Blank (MB)

(MB) R4135359-1 10/21/24 06:06

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 Analyte
 mg/l
 mg/l
 mg/l

 Suspended Solids
 U
 2.50
 2.50







(OS) L1790285-01 10/21/24 06:06 • (DUP) R4135359-3 10/21/24 06:06

 Original Result
 DUP Result
 Dilution
 DUP RPD
 DUP Qualifier Limits
 DUP RPD Limits

 mg/l
 %
 %

 10700
 10700
 1
 0.373
 10







L1790285-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1790285-02 10/21/24 06:06 • (DUP) R4135359-4 10/21/24 06:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	760	750	1	1.32		10



Gl



Laboratory Control Sample (LCS)

(LCS) R4135359-2 10/21/24 06:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Suspended Solids	854	880	103	85.0-115	

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

(MB) R4137035-1 10/24/24 12:11

Wet Chemistry by Method 1664B

	MB Result	MB Qualifier	MB MDL	MB RDI
Analyte	mg/l		mg/l	mg/I
Oil & Grease (Hexane Extr)	U		1.40	5.00









1	CC	D412702E 2	10/24/24 12:11	/ CCD	D442702F 2	10/24/24 12:11
Ų	LCS,	K413/U35-Z	10/24/24 12:11 •	COD	1 K413/U35-3	10/24/24 12:11

	Spike Amount	LCS Result	LCSD Result	LCS Rec	LCSD Rec	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/t	mg/l	mg/l	%	%	%			%	%
Oil & Grease (Hexane Extr)	40.0	38.9	36.1	97.3	90.3	78.0-114			7 47	20









(OS) L1789898-02	10/24/24 12:11	(MC) D412702E 4	10/24/24 12:11
1U31LI/03030-UZ	10/24/24 2.11	11VI 31 K413 / U 33-4	

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Oil & Grease (Hexane Extr)	40.0	ND	27.4	68.6	1	78.0-114	J6







Analyte

Alkalinity

Analyte Alkalinity

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

(MB) R4135421-1 10/21/24 09:22

Wet Chemistry by Method 2320B

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 20 0
 20 0



Tc

Ss

L1789288-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789288-01 10/21/24 09:22 • (DUP) R4135421-3 10/21/24 09:22

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
mg/I	mg/l		%		%
203	200	1	1.24		20





[®]Qc



(LCS) R4135421-2 10/21/24 09:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	250	240	96.0	90 0-110	







QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Wet Chemistry by Method 300.0

(MB) R4134394-1 10/1//2	24 14:31			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/I
Chloride	0.366	<u> </u>	0.325	0.800
Fluoride	U		0.0947	0.500
Nitrate	U		0.379	0.500
Sulfate	U		0.211	0.700









Laboratory Control Sample (LCS)

(LCS) R4134394-2 10/17/24 14:45

,				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
Chloride	5,00	5,36	107	90.0-110
Fluoride	5,00	5.37	107	90.0-110
Nitrate	5.00	5.32	106	90.0-110
Sulfate	5.00	5.47	109	90.0-110









(OS) L1789862-01 10/17/24 17:21	 (MS) R4134394-3 	10/17/24 17:36 •	(MSD) R4134394-4	10/17/24 17:51
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	' '		,	,								
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	1000	1370	2470	2470	110	110	1	90.0-110			0.0211	20

LCS Qualifier



L1789862-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789862-01 10/17/24 15:30 • (MS) R4134394-5 10/17/24 18:36 • (MSD) R4134394-6 10/17/24 18:50

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Fluoride	5.00	ND	5.18	5.25	98.8	100	1	90.0-110			1.36	20



L1789862-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789862-01 10/17/24 15:45 • (MS) R4134394-7 10/17/24 19:05 • (MSD) R4134394-8 10/17/24 19:20												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	50.0	31.6	110	110	156	158	1	90.0-110	<u>J5</u>	<u>J5</u>	0.542	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 300_0

L1789862-01

L1789862-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789862-01 10/17/24 17:06 • (MS) R4134394-9 10/17/24 19:35 • (MSD) R4134394-10 10/17/24 19:50

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/I	%	%		%		-	%	%
Sulfate	100	183	464	460	281	277	1	90.0-110	E J5	<u>E J5</u>	0.853	20



















QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

 (MB) R4134190-1
 10/17/24 16:19

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 Analyte
 mg/l
 mg/l
 mg/l

 Chromium,Hexavalent
 U
 0.00200
 0.00300



Laboratory Control Sample (LCS)

Wet Chemistry by Method 3500Cr-B

(LCS) R4134190-2 10/17/24 16:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chromium, Hexavalent	0.200	0.192	95,8	85.0-115	





Sr

L1787303-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1787303-01 10/17/24 16:19 • (MS) R4134190-3 10/17/24 16:19 • (MSD) R4134190-4 10/17/24 16:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chromium, Hexavalent	0.200	ND	0.187	0.188	93.7	94.1	1	85.0-115			0.462	20





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L1787826-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1787826-01 10/17/24 16:19 • (MS) R4134190-5 10/17/24 16:19 • (MSD) R4134190-6 10/17/24 16:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chromium,Hexavalent	0.200	ND	0.166	0.169	83.2	84.5	1	85 0-115	<u>J6</u>	<u>J6</u>	1.55	20

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Wet Chemistry by Method 351.2

(MB) R4136539-1 10/22/	24 20:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kieldahl Nitrogen TKN	П		0.140	0.250









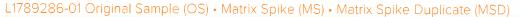
(LCS)	R4136539-3	10/22/24	2	1:0	/	
			_			

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	4.00	3.92	98.0	90 0-110	









OS) L1789286-01 10/22/24 20:5!	· (MS) R4136539-4 10/22/24 21:19 · ((MSD) R4136539-5 10/22/24 21:21
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	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	4.00	ND	3.68	3.57	92.0	89.3	1	90.0-110		<u>J6</u>	3.03	20







L1789310-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789310-01 10/22/24 20:58	· (MS) R4136539-6	10/22/24 21:22 • (MSD) R4136539-7	10/22/24 21:23
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	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/I	%	%		%			%	%
Kjeldahl Nitrogen, TKN	4.00	ND	3 94	4.01	98.5	100	1	90.0-110			1.76	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 360_1

L1789862-01

L1789862-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789862-01 10/18/24 09:10 • (DUP) R4134425-1 10/18/24 09:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Oxygen	8.86	8.95	1	1.01	<u>T8</u>	10



















QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Analyte

Chlorine, residual

(MB) R4135983-1 10/22/24 16:05

Wet Chemistry by Method 4500CI G-2011

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

0.0415

0_100





L1789158-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789158-01 10/22/24 16:10 • (DUP) R4135983-4 10/22/24 16:10

(LCS) R4135983-2 10/22/24 16:10 • (LCSD) R4135983-3 10/22/24 16:10

U

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chlorine,residual	ND	ND	1	0.000		20





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Chlorine,residual	1.00	0.925	0.924	92.5	92.4	85.0-115			0.108	20





QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Analyte

Cyanide

Analyte

(MB) R4136604-1 10/22/24 17:17

Wet Chemistry by Method 4500CN-E

MB Result MB Qualifier MB MDL MB RDL mg/l mg/l mq/I

U 0.00730 0.0100

Ss

Laboratory Control Sample (LCS)

(LCS) R4136604-2 10/22/24 17:17

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier mg/l % % mg/I

Cyanide 0:100 0.0993 99.3 85,0-115 Sr

L1790449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790449-02 10/22/24 17:17 • (MS) R4136604-3 10/22/24 17:17 • (MSD) R4136604-4 10/22/24 17:17

Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte mg/l mg/l mg/l mg/l % % % % % Cyanide 0.100 ND 0.0898 0.0977 89.8 97.7 85,0-115 8.33 20







L1790449-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790449-06 10/22/24 17:17 • (MS) R4136604-5 10/22/24 17:17 • (MSD) R4136604-6 10/22/24 17:17

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/l	%	%		%			%	%
Cyanide	0_100	ND	0.0929	0.0875	84.9	79 4	1	85.0-115	<u>J6</u>	<u>J6</u>	6.02	20

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Analyte

Phosphorus, Total

(MB) R4135492-1 10/21/24 16:28

Wet Chemistry by Method 4500P-E

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 0.0152
 0.0500









(LCS) R4135492-2 10/21/24 16:28

	Spike Amount	LCS Result	LCS Rec	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Phosphorus, Total	0.500	0.508	102	80,0-120	









(OS) L1789270-02 10/21/24 16:28 • (MS) R4135492-3 10/21/24 16:29 • (MSD) R4135492-4 10/21/24 16:29

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	mg/l	%	%		%			%	%
Phosphorus,Total	0.500	0.0681	0.580	0.582	102	103	1	80,0-120			0.399	20







L1790304-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790304-01 10/21/24 16:29 • (MS) R4135492-5 10/21/24 16:29 • (MSD) R4135492-6 10/21/24 16:29

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus, Total	0.500	5.22	5.55	5.67	67.1	90.3	10	80,0-120	$\underline{\vee}$		2,06	20

QUALITY CONTROL SUMMARY

Mothod Plank (MP)

BOD

Wet Chemistry by Method 5210 B-2016

Method Blan	k (MB)									
(MB) R4135748-1	10/22/24 10:14									
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/l		mg/l	mg/I						
BOD	U		0.200	0.200						
1 1789925-03	B Original Sampl	a (OS) . Di	ınlicato	(DLIP)						
	10/22/24 10:56 • (DL									
(03) [1/89923-03	•	,				DUP RPD				
	Original Resu	lt DUP Result	Dilution	DUP RPD		Limits				
Analyte	mg/l	mg/l		%		%				
BOD	179	199	1	10.5		20				
Laboratory	iontral Cample //	CC)								
Laboratory C	ontrol Sample (l	_(3)								
(LCS) R4135748-2	10/22/24 10:20									
	Spike Amount	t LCS Result	LCS Rec		s <u>LCS</u> Qualif	<u>fier</u>				
Analyte	mg/l	mg/l	%	%						

198

201

102

85-115

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Wet Chemistry by Method 5210 B-2016

(MB) R4136472-1 10/23/24 11:29 MB Result MB Qualifier MB MDL Analyte mg/l mg/l CBOD 0.210 <u>B1</u>









(OS) L1790358-02 10/23/24 12:24 • (DUP) R4136472-3 10/23/24 12:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/I		%		%
CBOD	5.97	5.61	1	6.22		20

0.200

MB RDL

mg/l

0.200











(LCS) R4136472-2 10/23/24 11:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
CBOD	198	198	100	85-115	





QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Analyte

Analyte COD

COD

(MB) R4135396-1	10/21/24 13:43
	MB Res

Wet Chemistry by Method 5220D

sult MB Qualifier MB MDL MB RDL mg/l mg/l mg/l

16.1

35.0



Laboratory Control Sample (LCS)

(LCS) R4135396-2 10/21/24 13:43

Spike Amount	LCS Result	LCS Rec.	Rec. Limit
mg/l	mg/l	%	%
500	525	105	80.0-120









(OS) L1789313-01 10/21/24 13:43 • (MS) R4135396-3 10/21/24 13:43 • (MSD) R4135396-4 10/21/24 13:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
COD	500	57.8	527	537	93,8	95.9	1	80_0-120			1.97	20

LCS Qualifier







L1790264-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790264-01 10/21/24 13:43 • (MS) R4135396-5 10/21/24 13:43 • (MSD) R4135396-6 10/21/24 13:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/l	%	%		%			%	%
COD	500	ND	508	520	97.5	100	1	80.0-120			2.44	20

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

TOC (Total Organic Carbon)

Analyte

(MB) R4136547-1 10/22/24 18:12 MB Result

Wet Chemistry by Method 5310C

result MB Qualifier MB MDL MB RDL

0.270

mg/l 0.700 Ср

3 Ss

Laboratory Control Sample (LCS)

mg/l

U

(LCS) R4136547-2 10/22/24 18:32

 Spike Amount
 LCS Result
 LCS Rec.
 Rec. Limits
 LCS Qualifier

 Analyte
 mg/l
 %
 %

 TOC (Total Organic Carbon)
 10.0
 10.3
 10.3
 90.0-110





0-

L1789289-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789289-01 10/22/24 18:55 • (MS) R4136547-3 10/22/24 19:42 • (MSD) R4136547-4 10/22/24 20:05

Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MSD Qualifier MS Qualifier RPD RPD Limits Analyte mg/l % % mg/l mg/l mg/l % % TOC (Total Organic Carbon) 10.0 5.89 15.9 15.7 100 97.9 80_0-120 1.46 20







L1789324-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789324-01 10/22/24 23:33 • (MS) R4136547-5 10/22/24 20:28 • (MSD) R4136547-6 10/22/24 20:52

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	4.65	14.6	14.7	99.8	100	1	80.0-120			0.273	20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1789862-01

L1789862-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789862-01 10/22/24 09:40 • (DUP) R4135740-2 10/22/24 09:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	SU		%		%
рН	8.20	8.21	1	0.122		20



Тс







Sample Narrative:

OS: 8 2 at 20 2C DUP: 8 21 at 20 1C

Laboratory Control Sample (LCS)

(LCS) R4135740-1 10/22/24 09:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	Su	su	%	%	
рН	6.00	5.96	99.3	99.0-101	









Sc

Sample Narrative:

LCS: 5 96 at 21.4C

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

(MB) R4136560-1	10/23/24 13:25
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	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/I
Ammonia Nitrogen	H		0.0280	0.100





Laboratory Control Sample (LCS)

Wet Chemistry by Method SM4500NH3H

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/I	%	%	
Ammonia Nitrogen	5.00	5.25	105	80.0-120	





L1788923-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1788923-02 10/23/24 13:36 · (MS) R4136560-3	10/23/24 13:29 • (MSD) R4136560-4 10/23/24 13:30
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	Spike Amount	Original Result	MS Result	MSD Result	MS Rec	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	0.582	5.50	5.51	98.4	98.6	1	80.0-120			0 182	20







L1788932-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1788932-01	10/23/24 13:39 •	(MS) R4136560-5	10/23/24 13:32 • (MSD) R4136560-6	10/23/24 13:34
,		(/	(1100) 111000000	.0,20,2 . 10.0 .

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%	_		%	%
Ammonia Nitrogen	5.00	0.368	5.26	5_27	97.8	98.0	1	80.0-120			0.190	20

QUALITY CONTROL SUMMARY

L1789862-01

Mercury by Method 245,1 Method Blank (MB)

Analyte

Mercury

(MB) R4135420-1	10/21/24	11:47
		MR Re

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 mg/l
 mg/l
 mg/l

 U
 0.000130
 0.000200







Laboratory Control Sample (LCS)

(LCS) R4135420-2 10/21/24 11:49

 Analyte
 Spike Amount
 LCS Result
 LCS Rec.
 Rec. Limits
 LCS Qualifier

 Mercury
 0.00300
 0.00292
 97.2
 85,0-115









(OS) L1789854-01 10/21/24 12:28 • (MS) R4135420-4 10/21/24 12:33 • (MSD) R4135420-5 10/21/24 12:35

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00306	0.00313	102	104	1	70,0-130			2.30	20







L1790075-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790075-06 10/21/24 12:38 • (MS) R4135420-6 10/21/24 12:40 • (MSD) R4135420-7 10/21/24 12:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/I	%	%		%			%	%
Mercury	0.00300	ND	0.00313	0.00314	104	105	1	70.0-130			0.564	20

QUALITY CONTROL SUMMARY

L1789862-01

Method Blank (MB)

Metals (ICP) by Method 200.7

(MB) R4137739-1 10/25/2	4 09:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/l
Aluminum	U		0.0592	0.200
Antimony	0,00716	<u></u>	0.00398	0.0100
Arsenic	U		0.00645	0.0100
Barium	U		0.000795	0.00500
Beryllium	U		0.000401	0.00200
Cadmium	U		0.000552	0.00200
Chromium	U		0.00163	0.0100
Copper	U		0.00226	0.0100
Lead	0.00230	J	0.00227	0.00500
Nickel	U		0.00182	0.0100
Selenium	U		0.00616	0.0100
Silver	U		0.00131	0.00500
Thallium	U		0.00460	0.0100

0.00578

0,0500

LCS Qualifier



















(LCS) R4137739-2 10/25/24 09:04

Laboratory Control Sample (LCS)

U

Zinc

(LCS) R4137739-2 10/25/24 09:04								
Spike Amount	LCS Result	LCS Rec.	Rec. Limits					
mg/l	mg/l	%	%					
10.0	10.2	102	85.0-115					
1.00	1.00	100	85.0-115					
1.00	0.995	99.5	85_0-115					
1.00	1.01	101	85.0-115					
1,00	100	100	85.0-115					
1,00	0.951	95.1	85_0-115					
100	0.986	98.6	85_0-115					
1.00	0.904	90.4	85.0-115					
1.00	1.01	101	85.0-115					
1.00	0.969	96.9	85.0-115					
1.00	1.03	103	85.0-115					
0.200	0.199	99.7	85.0-115					
1.00	0.994	99.4	85_0-115					
1.00	1.02	102	85 0-115					
	Spike Amount mg/l 10.0 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Spike Amount LCS Result mg/l mg/l 10.0 10.2 1.00 1.00 1.00 1.01 1.00 1.00 1.00 0.951 1.00 0.986 1.00 0.904 1.00 1.01 1.00 0.969 1.00 1.03 0.200 0.199 1.00 0.994	Spike Amount LCS Result LCS Rec. mg/l % 10.0 10.2 102 1.00 1.00 100 1.00 0.995 99.5 1.00 1.01 101 1.00 1.00 100 1.00 0.951 95.1 1.00 0.986 98.6 1.00 0.904 90.4 1.00 1.01 101 1.00 0.969 96.9 1.00 1.03 103 0.200 0.199 99.7 1.00 0.994 99.4					

Metals (ICP) by Method 200:7

QUALITY CONTROL SUMMARY

L1789862-01

L1788784-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1788784-03 10	/25/24 09:05 • (MS	R4137739-4 1	0/25/24 09:09	9 • (MSD) R4137	7739-5 10/25	/24 09:10							
, , , , , , , , , , , , , , , , , , , ,		Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Aluminum	10.0	ND	9.69	10.1	96.9	101	1	70.0-130			4.27	20	
Antimony	1.00	ND	0.945	0.992	94.5	99.2	1	70.0-130			4.92	20	
Arsenic	1.00	0.0150	0.983	1.02	96.8	100	1	70 0-130			3.33	20	
Barium	1.00	0.0106	0.977	1.02	96:6	101	1	70.0-130			4.13	20	
Beryllium	1.00	ND	0.965	1.01	96.5	101	1	70.0-130			4.06	20	
Cadmium	1.00	ND	0.933	0.967	93.2	96.7	1	70.0-130			3.64	20	
Chromium	1.00	ND	0.955	0.987	95.5	98.7	1	70.0-130			3.28	20	
Copper	1.00	ND	0.889	0.917	88.9	91.7	Ť	70.0-130			3.03	20	
Lead	1.00	ND	0.972	1.01	97.2	101	1	70.0-130			4.23	20	
Nickel	1.00	ND	0.941	0.980	94.1	98.0	1	70.0-130			3.99	20	
Selenium	1.00	ND	0.991	1.03	99.1	103	Ť	70.0-130			3.43	20	
Silver	0.200	ND	0.193	0.200	96.3	99.8	1	70.0-130			3.58	20	
Thallium	1.00	ND	0.960	0.991	96.0	99.1	Ť	70.0-130			3.18	20	
Zinc	1.00	ND	1.01	1.05	97.8	102	1	70.0-130			3.76	20	

L1790169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1790169-02 10/	25/24 09:12 • (MS)	R4137739-6 10	/25/24 09:14	• (MSD) R41377	739-7 10/25/2	24 09:15						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/ľ	%	%		%			%	%
Aluminum	10.0	ND	9.83	9.81	98.3	98.1	10	70.0-130			0.220	20
Antimony	1.00	ND	0.921	0.933	92.1	93.3	1	70.0-130			1.30	20
Arsenic	1.00	0.0154	1.02	1.02	100	101	1	70.0-130			0.440	20
Barium	1.00	0.280	1.24	1,26	96.3	98.3	1	70.0-130			1.59	20
Beryllium	1.00	ND	0.981	0.985	98.1	98.5	1	70.0-130			0.364	20
Cadmium	1.00	ND	0.954	0.967	95.3	96.6	1	70 0-130			1.36	20
Chromium	1.00	ND	0.954	0.965	95.0	96.2	14	70.0-130			1,22	20
Copper	1.00	ND	0.936	0.945	93.6	94.5	1	70.0-130			0.893	20
Lead	1.00	ND	0.982	0.990	98.2	99.0	1	70.0-130			0.818	20
Nickel	1.00	ND	0.961	0.969	95.8	96.7	1	70.0-130			0.872	20
Selenium	1.00	ND	1.02	1.04	102	104	4	70.0-130			1.74	20
Silver	0.200	ND	0.201	0.203	100	101	1)	70.0-130			1.04	20
Thallium	1.00	ND	0.967	0.969	96.7	96.9	1	70.0-130			0.266	20
Zinc	1.00	ND	0.992	1.01	98.6	99.9	1	70.0-130			1.37	20



















GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.



Abbreviations and Definitions

MDL	Method Detection Limit
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit
Rec	Recovery
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
	This is the decument created in the field when a result in the field when a

Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B1	The blank deple

B1	The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.
Е	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA ISO 17025	1461,01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 ⁵	1461,02	DOD	1461.01
Canada	1461_01	USDA	P330-15-00234
EPA-Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
lowa	408	Oklahoma	8727
Louisiana	30686		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable





















^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:			Billing Info	ormation:			1		-	nalysis	/ Conta	iner / Pr	econiat	iva			Chain of Custod	y Page 13 of 16
Enviro-Ag Engineering 3404 Airway Blvd. Amarillo, TX 79118			3404 Air	Bryan Mullin 3404 Airway Blvd. Amarillo, TX 79118						1017313	Conta						0	re Analytical
Report to:			Email To:	cmullin@enviroag.co om;mshoemaker@e	om;rgeorge@en	viroag.c											190 Allen, T	X 75013
Jourdan Mullin				nviroag.com	tviroag.com;jm	niiu@e	100		100		8		1339		180			ra this chain of custody
Project Description: Pollutant Permit		City/State Collected:			Please C					HO	000	S04					Pace Terms and Cond	igment and acceptance of thi irons found at com/hubfs/pas standard
Phone: 254-965-3500	Client Projec	t #		Lab Project #	***************************************		Pres	S	res	PE-Na	근	dd H2	υ ₀	40	w	Pres	SDG #	a 0:4 =
Collected by (print):	Site/Facility			P.O. #			PE-No	NoPre	1L-HDPE NoPres	IN IND	p-Add	500mlHDPE-Add H2SO4	NoPre	250mIAmb-H2SO4	NoPre	250mIHDPE-NoPres		78 98V
Collected by (signature):		Lab MUST Be	Notified)	Quote #			문	DPE	HDP	1250	Am	불	PE	Amk	DPE-	물	Template: T2	
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Sample ID	Comp/Grab	Matrix *	Depth Date Time Cntrs	ALLB	ALLCBOD	ALLCI	ALLO	ALLPHOS	ALLTI	ALLTOC	ALLTS	CHLORR	Shipped Via: F	Sample # (lab only				
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												-					 	-
													857			-	-	
			-												3			
				-													-	
WW - WasteWater DW - Drinking Water OT - Other				Cr,CR6,CR3,Cu	R6,CR3,Cu,Pb,Ni,Se,Ag,Tl,Zn,									_	COC Si Bottle Correc	eal Pr .gned/ es arr et bot	le Receipt Chresent/Intact Accurate: ive intact: itles used:	- Y - Y - Y - Y - Y - Y - Y - Y - Y - Y
				Tracking #					3101				B	100	Sufficient volume sent: Y N If Applicable VOA Zero Headspace: Y N			
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Relinquished by : (Signature)	See Comment	te: 0/17/2	4 12	57 Receive	ed by: (Signati	YA.	ien 1	lamo	s M	CF.	10/17		es Receiv	ed:	If prese	rvation	required by Log	in: Date/Time
Relinquished by : (Signature)	Da	te:	Time:	Receive	ed for lab by: ((Signatu	re)		Da	ate:		Time	i.		Hold:			Condition: NCF / OK

Company Name/Address:	Billing Information:									Analysis	/ Contain	er / Preservative		Chain of Custody Page 14 of 16			
Enviro-Ag Engineerin	Enviro-Ag Engineering			lullin rway Blvd.		Pres Chk)		
3404 Airway Blvd. Amarillo, TX 79118			Amarillo, TX 79118					I H2	res					— Fai	ce Analytical [°]		
Report to:		Email To: cmullin@				virpan e	157	P	면	S			0.00	190 Allen,	nan, 2000 oand FX 75013		
Jourdan Mullin				om;mshoemaker@ nviroag.com	enviroag.com;jm	ullin@e	HNO3	E/	4	J A			1				
Project Description:		City/State			Please C	ircle:	壬	급	금	Ϊ́	3.		-3823		via this chain of custody edgment and acceptance of the		
Pollutant Permit		Collected:			PT MT	CT ET	m m	듣	Ī	H					com/Isubfs/pas standard		
Phone: 254-965-3500	Client Proj	ect#		Lab Project #			250mIHDPE	500mIHDPE-Add H2	500m	125mIHDPE-NoPres				SDG#			
Collected by (print):	Site/Facilit	/ ID #		P.O. #			250r	3 TKN	3, DO	1 125					178 9862		
Collected by (signature):		(Lab MUST Be		Quote#			site spec	D,NH	6, CR.	anioins, pH				Template: T2			
Immediately Packed on Ice N Y	Next	Day Five Day 5 Da Day 10 D	y (Rad Only)	Date Resu	lts Needed	No.		WetChem COD,NH3 TKN		WetChem CR6, CR3, DO 500mlHDPE-NoPres	em anic				Prelogin: P1 PM: 3665 - Doi P8:		
Sample ID	Comp/Gra	Matrix *	Depth	Date	Time	Cntrs	Metals ICP		VetCh	WetChem				Shipped Via:	FedEX Ground		
Schreiber weeky	Grab	ww		10/14/24	0953	15	X	X	> X	X				10	-		
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		-			-		20				9 11 39	0.50					
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											933						
Matrix: SS - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay NW - WasteWater	Remarks: Field Meta	TEMP is, Al,Sb,As,	Ba,Be,Cd,	Ba,Be,Cd,Cr,CR6,CR3,Cu,Pb,Ni,Se,Ag,Tl,Zn,								Temp	COC Seal	ample Receipt Ch Present/Intact med/Accurate: arrive intact;	necklist : _NP Y N _Y N _Y N		
		ples returned via: PSFedExCourierTracking #							Flow Other			J. S. A. S. S.	Correct Sufficie	Correct bottles used: Y Sufficient volume sent: Y If Applicable			
Relinquished by : (Signature)	The second second second second	ate:	Time: Received by: (Signature)			re)			T	rip Blank	Received	: Yes / No HCL / MeoH	VOA Zero Headspace: Y N Preservation Correct/Checked: Y N RAD Screen of 5 mP/hr: Y N		ecked: Y N Y N		
Relinquished by: (Signature)		ate: 8 14 2 \	Time:		ed by: (Signatu	rel Sen E	lamo	5 19	U.F. To	emp:	°C	TBR Bottles Received:	If preserva	ation required by Log	gin: Date/Time		
Relifiquished by : (Signåture)	D	ate:	Time:	Receiv	ed for lab by: (5	Signatur	e)			ate:		Time:	Hold:		Condition: NCF / OK		

/	Book
1-	Tave

DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

Effective Date: 12/18/2023

Sample Condition Upon Receipt

□Dallas □Ft Worth	□Corpus Christi □Austin
Client Name: En Viro - Ag Engineering Project	ct Work order (place label)
Courier: FedEX UPS USPS Client LSO PACE Other:	L178 9862
Custody Seal on Cooler/Box: Yes No	
Received on ico: Wat of Disco	
Receiving Lab 1 Thermometer Used: 1219 Cooler Tem	p °C: 1.8 (Recorded) 702(Correction Factor) 1.6 (Actua
Receiving Lab 2 Thermometer Used: Cooler Tem	p °C: (Recorded) (Correction Factor) (Actua
Chain of Custody relinquished	Yes / No 🗆
Sampler name & signature on COC	Yes No D
Short HT analyses (<72 hrs)	Yes No 🗆
femperature should be above freezing to 6°C unless collected same	day as receipt in which evidence of cooling is accentable
Triage Person: Date: 1017	- San Asseption
Sufficient Volume received	Yes Ø No a
Correct Container used	Yes No 🗆
Container Intact	Yes No D
Sample pH Acceptable pH Strips: 6407007	Yes D No D NA D
Residual Chlorine Present	Voc - No d No
CI Strips: 14866	Yes d No d NA d
Sulfide Present	Yes D No NA D
Lead Acetate Strips: 4807	'
Are soil samples (volatiles, TPH) received in 5035A Kits	Yes 🗆 No 🗆 NA 🗖
(not applicable to TCLP VOA or PST Program TPH)	
Unpreserved 5035A soil frozen within 48 hrs	Yes D NO D NA D
Headspace in VOA (>6mm)	Yes No NA NA
Project sampled in USDA Regulated Area outside of Texas	Yes 🗆 No 🗆 NA 🏂
State Sampled:	,
Non-Conformance(s):	Yes D No/D
ogin Person: Date: 10/17	
abeling Person (if different than log-in):	Date:
altrax ID: 48806	Page 1 of 1



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118 Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico: 203 East Main Street Artesia NM 88210

January 20, 2025

TCEQ

Attn: Leah Whallon Applications Review and Processing Team, MC-148 PO Box 13087 Austin, TX 78711-3087

Re: Requested Information, New TLAP Permit Application

WQ#5478 (RN102073137) Vanden Berge Farms – Erath County

Dear Ms. Whallon,

This letter is in response to your January 9, 2025, email regarding the above-referenced facility. From your email specifically:

- 1. Per a pre-application meeting with the TCEQ and Corey Mullin with Enviro-Ag Engineering, Inc. It was decided to list Schreiber Foods, Inc. on the permit as the owner of the facility.
- 2. Attached are the electronic copy of the full size USGS quadrangle maps.
- 3. Attached is the revised technical report1.0, Item 4-Outfall Flow Information Table.
- 4. Attached is the Spanish NORI.

If you have any questions, please do not hesitate to contact our office.

Respectfully Submitted,

Jourdan Mullin

Enviro-Ag Engineering, Inc.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area I, evaporation pond E, or subsurface drainage system S by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for Outfall number (e.g. E1 for evaporation pond 1, I2 for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)					
I1	32.252953°	-98.175865°					
I2	32.250234°	-98.181426°					
I3	32.257028°	-98.175490°					
I4	32.261027°	-98.179119°					
I5	32.256366°	-98.181642°					

Outfall Location Description

Outfall No.	Location Description	

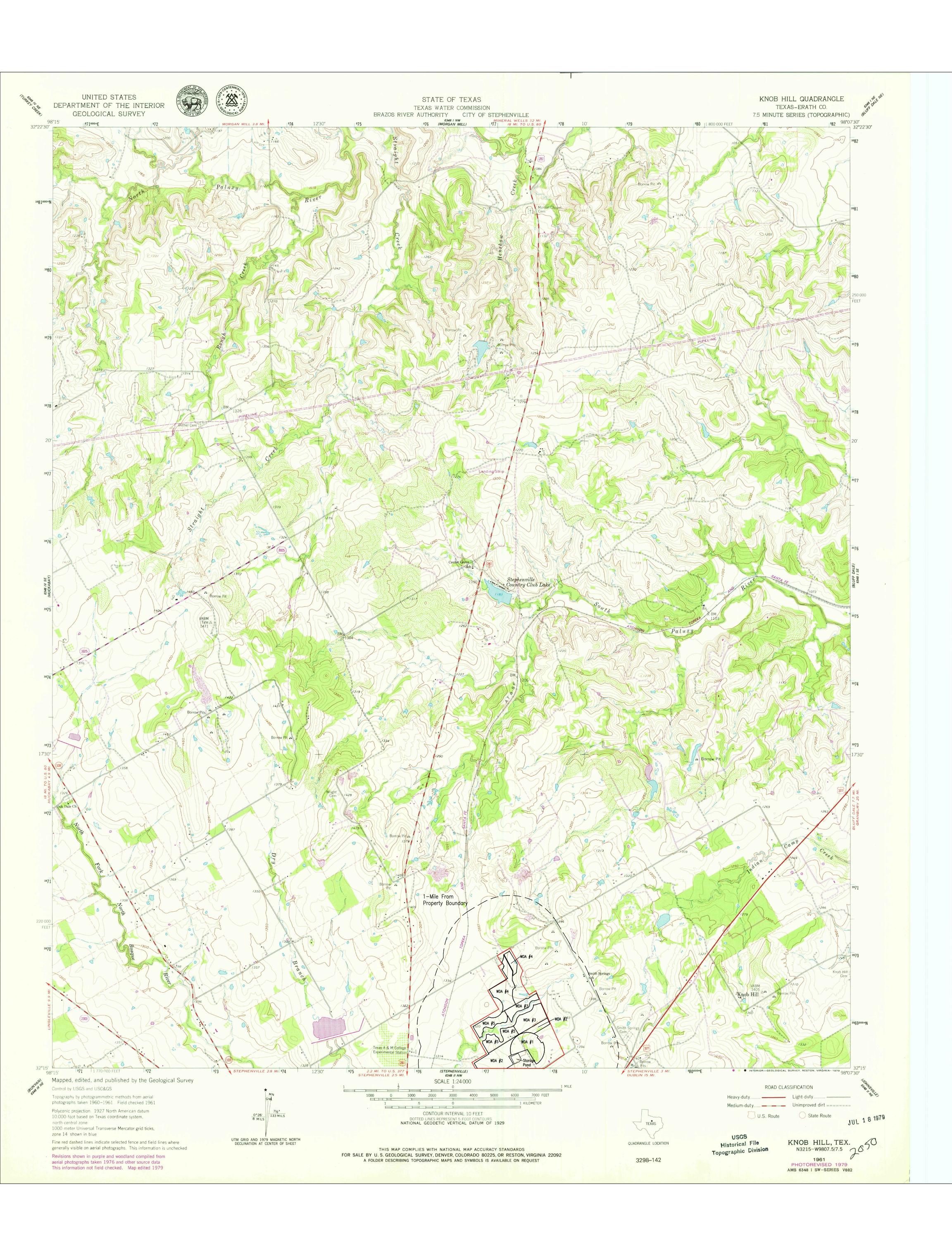
Description of Sampling Point(s) (if different from Outfall location)

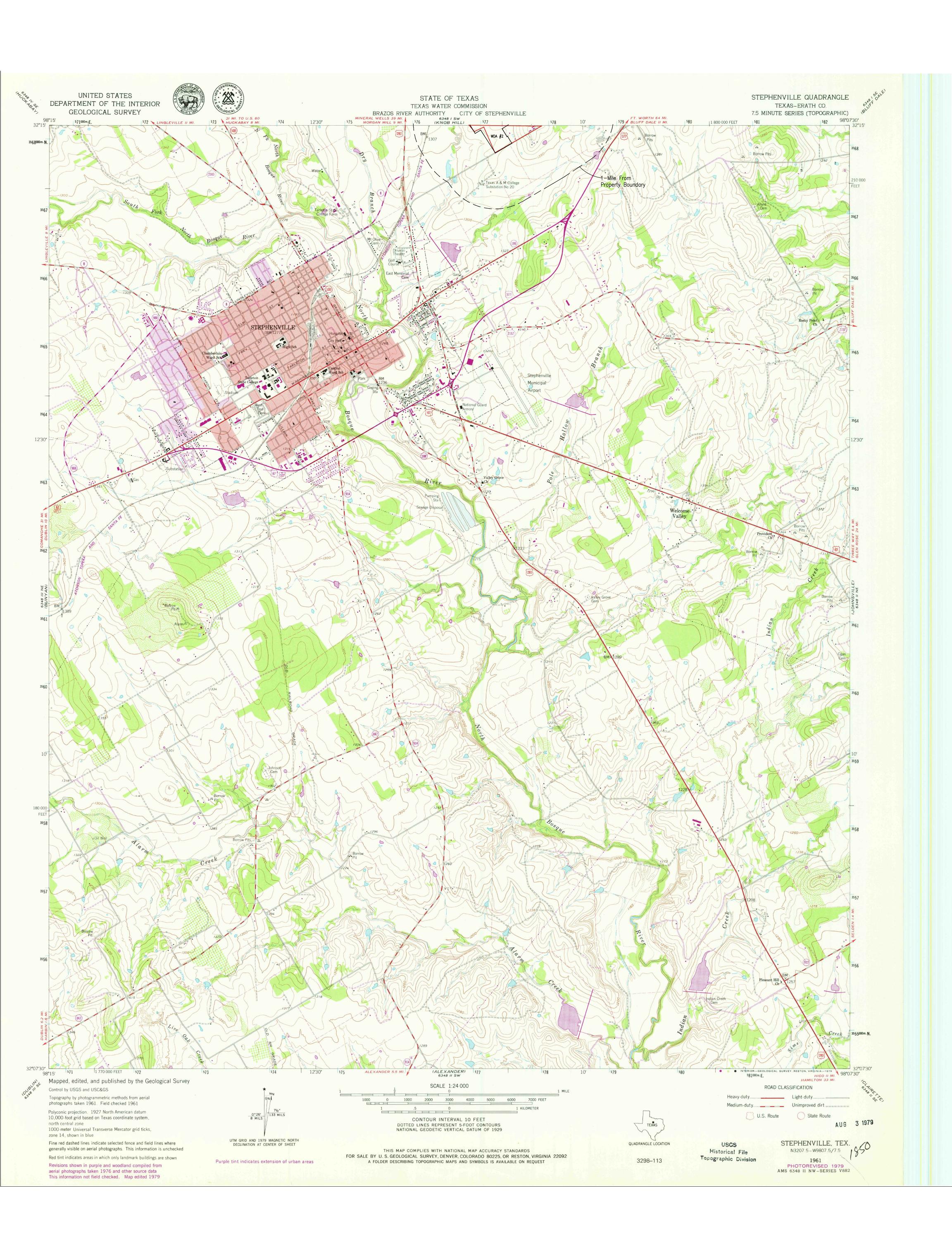
Outfall No.	Description of sampling point
	Mr.

Outfall Flow Information - Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
I1-I5	=		192,000 intermittent & flow Variable	No limit	6/1/2025

Revised 1/16/2025





Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECEPCIÓN DE LA SOLICITUD Y LA INTENCIÓN DE OBTENER CALIDAD DEL AGUA PERMISO NUEVO

PERMISO NO. WQ0005478000

SOLICITUD. Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, y Kayla Vanden Berge, 404 Morgan Mill Road, Stephenville, Texas 76401, que poseen un sitio de disposición para el almacenamiento y aplicación a tierra del efluente tratado de la instalación de fabricación de alimentos lácteos autorizada bajo el existente Permiso para la Aplicación en Terrenos de Texas No. WQ0003074000, han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) por el propuesto Permiso para la Aplicación en Terrenos de Texas (TLAP) No. WQ0005478000 para autorizar la disposición de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 192,000 galones por día mediante el riego superficial de 223 acres. El sitio de disposición estará ubicado en 2435 County Road 177, cerca de la ciudad de Stephenville, en el Condado de Erath, Texas 76401. La TCEQ recibió esta solicitud el día 25 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Palacio de Justicia del Condado de Earth - Oficina de Extensión del Condado de Erath, Sala 206, 100 West Washington Street, Stephenville, en el Condado de Erath, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluidas las actualizaciones y los avisos asociados, están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceg.texas.gov/LocationMapper/?marker=-98.1775,32.251666&level=18

Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary and is an application for a major amendment which will increase the pollutant loads to coastal waters or would result in relocation of an outfall to a critical areas, or a renewal with such a major amendment. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. If the application is for amendment that does not meet the above description, do not include the sentence: El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa

de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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.

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

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

También se puede obtener información adicional de Jack Vanden Berge, Ellen Vanden Berge, Jacob Vanden Berge, y Kayla Vanden Berge a la dirección indicada arriba o llamando al Sr. Corey Mullin, Enviro-Ag Engineering, al 254-485-3892.

Fecha de emisión	D)ate	no	ti	ice	is	ssi	ıe	d i
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