Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. Application materials

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Seaboard Foods LLC (CN603155748) operates Perryton Feedmill (RN102176393), a feedmill operation. The facility is located at 12025 West Highway 15, in Perryton, Ochiltree County, Texas 79070. This amendment application for TCEQ Permit No. WQ0005231000 is to authorize the disposal of additional boiler blowdown and water treatment wastes at a max average flow not to exceed 24,000 gallons per day via evaporation. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain total dissolved solids. Boiler blowdown and water treatment wastes, consisting of water softener backwash and regeneration wastes is treated by evaporation.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Seaboard Foods, LLC (CN6031555748) opera Perryton Feedmill (RN102176393), una instalación de fabricación de piensos. La instalación está ubicada en 12025 West Highway 15, en Perryton, Condado de Ochiltree, Texas 79070. Esta solicitud de enmienda para el Permiso TCEQ No. WQ0005231000 es para autorizar la eliminación de desechos adicionales de purga de calderas y de tratamiento de agua a un flujo promedio máximo que no exceda los 24.000 galones por día a través de la evaporación.. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan sólidos disueltos totales. Los desechos de purga de calderas y de tratamiento de aguas, que consisten en el retrolavado de descalcificadores y residuos de regeneración, se tratan por la evaporación.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0005231000

APPLICATION. Seaboard Foods LLC, 9000 West 67th Street, Shawnee Mission, Kansas 66202, which owns a swine feed processing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Land Application Permit (TLAP) No. WQ0005231000 to authorize an increase to the disposal of treated wastewater to a volume not to exceed a daily average flow of 11,000 gallons per day and the addition of a second evaporation pond. The facility and disposal site are located at 12025 West State Highway 15, near the city of Perryton, in Ochiltree County, Texas 79070. TCEQ received this application on May 14, 2024. The permit application will be available for viewing and copying at Perry Memorial Library, 22 Southeast 5th Avenue, Perryton, in Ochiltree 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=-100.926666,36.341944&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 county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

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 Seaboard Foods LLC at the address stated above or by calling Ms. Jennifer Nelson, Associate General Counsel, at 913-261-2600.

Issuance Date: June 12, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0005231000

SOLICITUD. Seaboard Foods LLC, 9000 West 67th Street, Suite 200, Shawnee Mission, Kansas 66202, propietaria de una instalación de procesamiento de alimentos para cerdos, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso para Aplicación al Suelo de Texas (TLAP) No. WQ0005231000 para autorizar un aumento en la descarga de aguas residuales tratadas a un volumen que no sobrepasa un flujo promedio diario de 11.000 galones por día y la adición de una segunda laguna de evaporación. La instalación y el sitio de descarga están ubicados en 12025 West State Highway 15, cerca de la ciudad de Perryton, en el condado de Ochiltree, Texas 79070. La TCEQ recibió esta solicitud el 14 de mayo de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la Perry Memorial Library, 22 Southeast 5th Avenue, Perryton, en el condado de Ochiltree, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible 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 instalación es proporcionado como una cortesía pública y no es parte de la solicitud o aviso. Para la ubicación exacta, consulte la aplicación. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.926666,36.341944&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 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.

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 Seaboard Foods LLC a la dirección indicada arriba o llamando a la Sra. Jennifer Nelson, Asesora Legal General Adjunta, al 913-261-2600.

Fecha de emisión el 12 de junio de 2024

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO - STEPHENVILLE- ARTESIA

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

May 13, 2024

Via FedEx

TCEQ
Applications Review and Processing Team (MC-148)
12100 Park 35 Circle
Building F, Room 2101
Austin, TX 78753

Re: Seaboard Foods LLC – Permit No. WQ0005231-000
CN603155748, RN102176393
Application to Amend Industrial TLAP for Evaporation

Dear Sir/Madam,
Enclosed please find completed Industrial Administrative Reports, Industrial Technical Reports, Worksheets and supporting documentation to amend the above-referenced TLAP. The application was uploaded to the TCEQ secured FTP site on May 8, 2024.

Please contact our office with any questions or if additional information is needed.

Respectfully submitted,

Marsha Shoemaker

Marsha Shoemaker

Enviro-Ag Engineering, Inc.

Enclosures
Cc: Seaboard Foods – Perryton Feedmill
EAE file

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: Seaboard Foods LLC

PERMIT NUMBER (If new, leave blank): WQ00 WQ0005231-000

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Worksheet 8.0	☐	☒
Administrative Report 1.1	☒	☐	Worksheet 9.0	☐	☒
SPIF	☐	☒	Worksheet 10.0	☐	☒
Core Data Form	☒	☐	Worksheet 11.0	☐	☒
Public Involvement Plan Form	☒	☐	Worksheet 11.1	☐	☒
Plain Language Summary	☒	☐	Worksheet 11.2	☐	☒
Technical Report 1.0	☒	☐	Worksheet 11.3	☐	☒
Worksheet 1.0	☐	☒	Original USGS Map	☒	☐
Worksheet 2.0	☐	☒	Affected Landowners Map	☒	☐
Worksheet 3.0	☒	☐	Landowner Disk or Labels	☒	☐
Worksheet 3.1	☒	☐	Flow Diagram	☒	☐
Worksheet 3.2	☐	☒	Site Drawing	☒	☐
Worksheet 3.3	☐	☒	Original Photographs	☒	☐
Worksheet 4.0	☐	☒	Design Calculations	☒	☐
Worksheet 4.1	☐	☒	Solids Management Plan	☐	☐
Worksheet 5.0	☐	☒	Water Balance	☒	☐
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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 20893-inst[1]).

Item 1. Application Information and Fees (Instructions, Page 26)

a. Complete each field with the requested information, if applicable.

Applicant Name: Seaboard Foods LLC

Permit No.: WQ0005231000

EPA ID No.: TX0Click to enter text.

Expiration Date: Oct. 1, 2027

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.

☐ TPDES Permit ☒ TLAP ☐ TPDES with TLAP component

e. Check the box next to the appropriate application type.

☐ New

☐ Renewal with changes ☐ Renewal without changes

☐ Major amendment with renewal ☒ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Application includes an increase in flow and the construction of an additional evaporation pond due to a feedmill modification.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____

[1] 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.: 16158

Check or money order amt.: 350.00

Named printed on check or money order: Enviro-Ag Engineering, Inc.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN603155748

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Seaboard Foods LLC

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

Title: CFO Credential: Click to enter text.

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

☒ Yes ☐ No

[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

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

Item 3. Co-applicant Information (Instructions, Page 27)

☒ Check this box if there is no co-applicant.; otherwise, complete the below questions.

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 co-applicant, 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 co-applicant(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: 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.

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Click to enter text. Full Name (Last/First Name): Shoemaker, Marsha

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc.

Mailing Address: 3404 Airway Blvd City/State/Zip: Amarillo, TX 79118

Phone No: 806/353-6123 Email: mshoemaker@enviroag.com

b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Click to enter text. Full Name (Last/First Name): Nelson, Jennifer

Title: Associate General Counsel Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission, KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@Seaboardfoods.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: Click to enter text. Full Name (Last/First Name): Nelson, Jennifer

Title: Associate General Counsel Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Missions, KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.com

b. Prefix: Click to enter text. Full Name (Last/First Name): Benedict, Mike

Title: Feedmill Manager Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Mailing Address: 4200 South Main Street City/State/Zip: Perryton, TX 79070

Phone No: 806/434-1057 Email: mike.benedict@seaboardfoods.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: Click to enter text. Full Name (Last/First Name): Nelson, Jennifer

Title:Associate General Counsel Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission, KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.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: Click to enter text. Full Name (Last/First Name): Nelson, Jennifer

Title: Associate General Counsel Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission, KS 66202

Phone No: 913/261/2600 Email: Jennifer.Nelson@seaboardfoods.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Click to enter text. Full Name (Last/First Name): Shoemaker, Marsha

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc.

Mailing Address: 3404 Airway Blvd City/State/Zip: Amarillo, TX 79118

Phone No: 806/353-6123 Email: mshoemaker@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: mshoemaker@enviroag.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 3404 Airway Blvd

City/State/Zip Code: Amarillo, TX 79118

c. Contact in the Notice

Prefix: Click to enter text. Full Name (Last/First Name): Nelson, Jennifer

Title: Associate General Counsel Credential: Click to enter text.

Organization Name: Seaboard Foods LLC

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.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: Perry Memorial Library Location within the building: To be located next to the Spanish section.

Physical Address of Building: 22 SE 5th Ave

City: Perryton, TX County: Ochiltree

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? Spanish

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Attachment A.C

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: Attachment A.D

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

a. TCEQ issued Regulated Entity Number (RN), if available: RN102176393

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): Perryton Feedmill

c. Is the location address of the facility in the existing permit the same?

☐ Yes ☒ No ☐ N/A (new permit)

Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

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

or Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission, KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.com

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Seaboard Foods LLC

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

or Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

g. Owner of effluent TLAP disposal site (if applicable): Seaboard Foods LLC

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

or Organization Name: Seaboard Foods LLC

Mailing Address: 9000 W 67th Street, Ste. 200 City/State/Zip: Shawnee Mission, KS 66202

Phone No: 913/261-2600 Email: Jennifer.Nelson@seaboardfoods.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):

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

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☒ One-mile radius ☐ Three-miles downstream information

☒ Applicant's property boundaries ☐ Treatment facility boundaries

☐ Labeled point(s) of discharge ☐ Highlighted discharge route(s)

☐ Effluent disposal site boundaries ☒ All wastewater ponds

☐ Sewage sludge disposal site ☒ New and future construction

Attachment: Attachment A.E

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: n/a

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: n/a

e. Are the discharge route(s) in the existing permit correct?

☐ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: n/a

f. City nearest the outfall(s): Perryton, TX

g. County in which the outfalls(s) is/are located: Ochiltree

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: ☐ Authorization granted ☐ Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: n/a

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: n/a

i. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☒ Yes No or New Permit ☐ Amendment to TLAP Permit

If no, or a new application, provide an accurate location description: n/a-evaporation

j. City nearest the disposal site: Perryton

k. County in which the disposal site is located: Ochiltree

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Pump transfers effluent from boiler & water softener backwash building flows immediately east/northeast of feedmill and discharges to evap pond.

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Unclassified Segment 0100 (Playa lake basin) located at lat. 36.35828, long. -100.91356

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: Marsha Shoemaker

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: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0005231000

Applicant Name: Seaboard Foods LLC

Certification: I, Peter B. Brown, 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): Peter B. Brown

Signatory title: President and CEO

Signature: _____ Date: 01 MAY 24
(Use blue ink)

Subscribed and Sworn to before me by the said Peter B Brown, President + CEO

on this 16th day of May, 2024.

My commission expires on the 13th day of February, 2027.

Notary Public

[SEAL]

KATHERINE M. HERRENBRUCK
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2/13/27

Notary Public
Johnson County, Kansas

Note: *If co-applicants are necessary, each entity must submit an original, separate signature page.*

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.

☒ The facility site boundaries within the applicant's property boundaries.

☐ 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: 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: Ochiltree County Appraisal Website

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 on the land(s): Click to enter text.

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: Attachment A.G

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: Attachment A.H

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of industrial wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305 by checking the box next to the item. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until all items below are addressed.

☒ Core Data Form (TCEQ Form No. 10400)
(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

☒ Correct and Current Industrial Wastewater Permit Application Forms
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☒ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

☒ 7.5 Minute USGS Quadrangle Topographic Map Attached
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments.)

☐ N/A ☐ Current/Non-Expired, Executed Lease Agreement or Easement Attached

☐ N/A ☒ Landowners Map
(See instructions for landowner requirements.)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

☐ N/A ☒ Landowners Cross Reference List
(See instructions for landowner requirements.)

☐ N/A ☒ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)

☒ Original signature per 30 TAC § 305.44 – Blue Ink Preferred
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached.)

☒ Plain Language Summary

INDUSTRIAL ADMINISTRATIVE REPORT

Attachments

Prepared For:

Seaboard Foods LLC

Perryton Feedmill

12025 W State Hwy 15

Perryton, TX 79070

April 23, 2024

Prepared By:

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO - STEPHENVILLE - ARTESIA

3404 Airway Boulevard ♦ Amarillo, Texas 79118 ♦ Tel 806/353-6123 ♦ Fax 806/353-4132

Table of Contents

LIST OF FIGURES

A.A: FEE PAYMENT

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Permit No:** WQ0005231000

1. Check or Money Order Number: 16158
2. Check or Money Order Amount: 350.00
3. Date of Check or Money Order: 4/24/24
4. Name on Check or Money Order: Enviro-Ag Engineering, Inc.
5. APPLICATION INFORMATION

   Name of Project or Site: Perryton Feedmill

   Physical Address of Project or Site: 12025 W SH 15, Perryton, TX 79070

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.
   Attachment: Click to enter text.

Staple Check or Money Order in This Space

A.B: CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☒ Other **Amendment to WQ0005231-000**

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 603155748		**RN 102176393**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 4/3/24

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

Seaboard Foods LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800522057	32059312341		

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: LLC

12. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?

☐ **Yes** ☒ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:

☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:

9000 W 67th Street

City	Shawnee Mission	State	KS	ZIP	66202	ZIP + 4	

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

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

(913) 261-2600		( ) -

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.)*

Perryton Feedmill

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	12025 West State Hwy 15							
	City	Perryton	**State**	TX	**ZIP**	79072	**ZIP + 4**	
24. County	Ochiltree							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Perryton			TX		79070

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	36.34183		**28. Longitude (W) In Decimal:**	-100.92683	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
2048			

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

Feedmill for Swine Feed

34. Mailing Address:	**9000 W 67 Street, Ste. 200**							
	City	**Shawnee Mission**	**State**	**KS**	**ZIP**	**66202**	**ZIP + 4**	
35. E-Mail Address:	**Jennifer_Nelson@Seaboardfoods.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(913) 261-2600		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
	36791			
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
	TXG05FN10			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0005231000			

SECTION IV: Preparer Information

40. Name:	Marsha Shoemaker	41. Title:	Consultant Enviro-Ag Engineering

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(806) 353-6123		(806) 353-4132	mshoemaker@enviroag.com

SECTION V: Authorized Signature

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

Company:	Seaboard Foods LLC	Job Title:	President and CEO
Name *(In Print)*:	Peter B. Brown	Phone:	(913) 261- 2600
Signature:		Date:	01 MAY 24

A.C: PLAIN LANGUAGE SUMMARY (PLS)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Seaboard Foods LLC (CN603155748) operates Perryton Feedmill (RN102176393), a feedmill operation. The facility is located at 12025 West Highway 15, in Perryton, Ochiltree County, Texas 79070. This amendment application for TCEQ Permit No. WQ0005231000 is to authorize the disposal of additional boiler blowdown and water treatment wastes at a max average flow not to exceed 24,000 gallons per day via evaporation. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain total dissolved solids. Boiler blowdown and water treatment wastes, consisting of water softener backwash and regeneration wastes is treated by evaporation.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Seaboard Foods, LLC (CN6031555748) opera Perryton Feedmill (RN102176393), una instalación de fabricación de piensos. La instalación está ubicada en 12025 West Highway 15, en Perryton, Condado de Ochiltree, Texas 79070. Esta solicitud de enmienda para el Permiso TCEQ No. WQ0005231000 es para autorizar la eliminación de desechos adicionales de purga de calderas y de tratamiento de agua a un flujo promedio máximo que no exceda los 24.000 galones por día a través de la evaporación.. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan sólidos disueltos totales. Los desechos de purga de calderas y de tratamiento de aguas, que consisten en el retrolavado de descalcificadores y residuos de regeneración, se tratan por la evaporación.

INSTRUCTIONS

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

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

Example

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 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

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

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

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

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

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

A.D: PUBLIC INVOLVEMENT PLAN (PIP)

Texas Commission on Environmental Quality

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, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- 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.

Facility is not located within the designated MSA of the Texas Panhandle.

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

☐ 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.

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.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

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

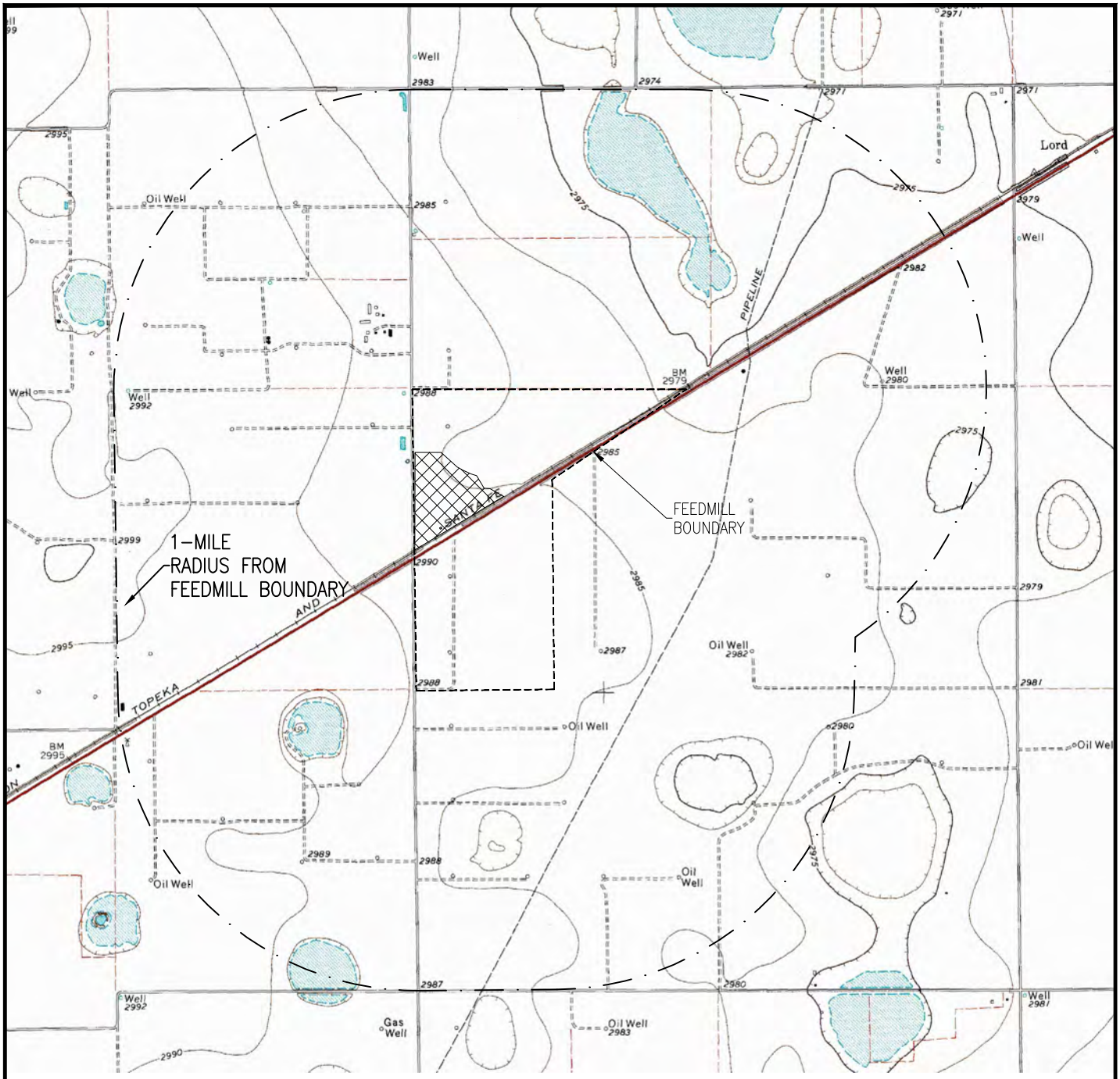
☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

A.E: 7.5-MINUTE USGS TOPOGRAPHIC MAP

Figure 1 show the required information and 1-mile radius overlain on a seamless digital version of the original 7.5-Minute USGS Topographic quadrangle map of the area at native 1:24000 scale.



LEGEND:

Denotes Feedmill Area (including Evaporation Ponds)

N
W E
S

1320' 0 1320' 2640'

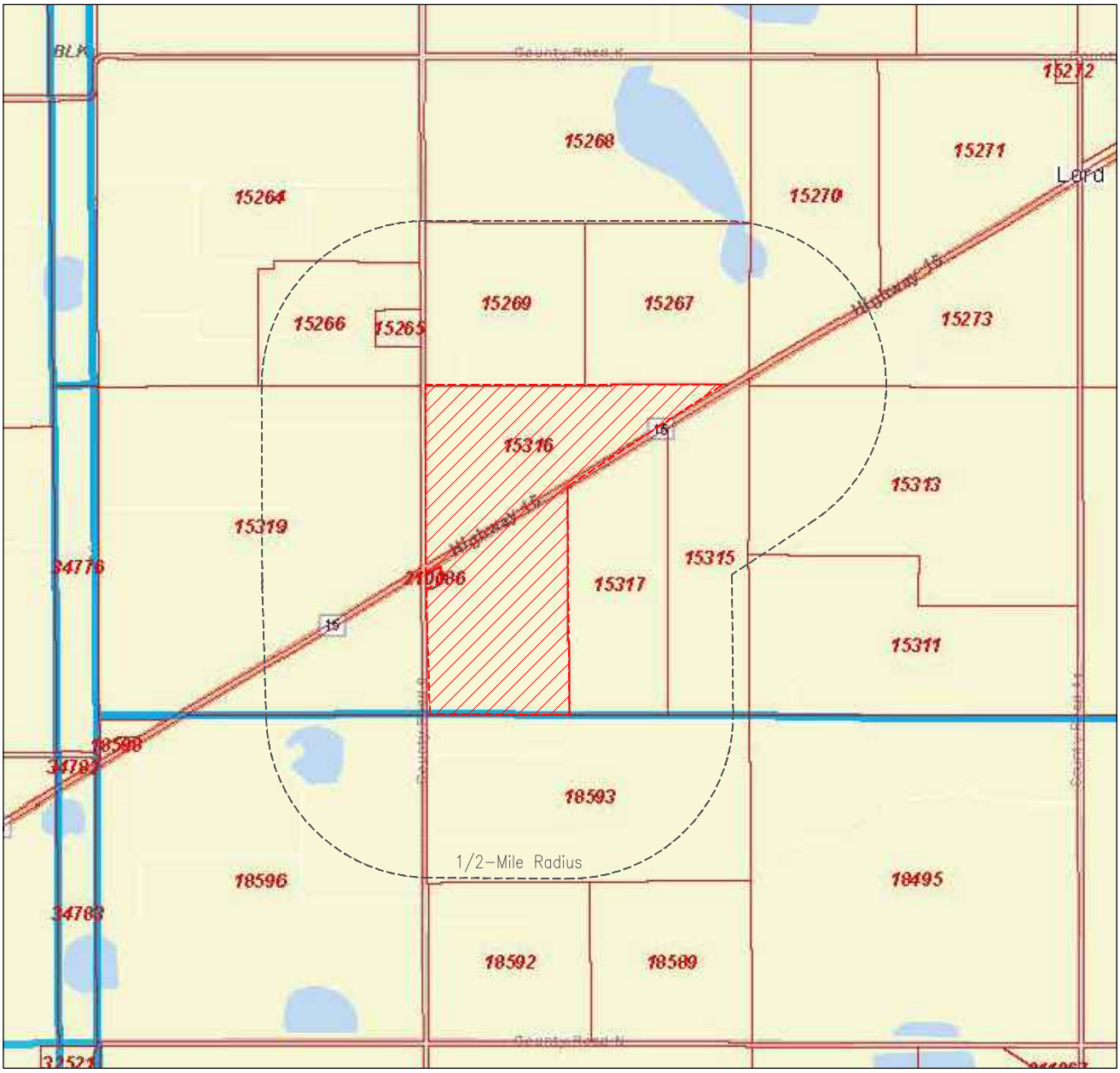
SCALE AS SHOWN

Source: USDA–NRCS. Geospatial Data Gateway. Available at: http://datagateway.nrcs.usda.gov/. Digital Raster Graphic County Mosaic by NRCS – Accessed 4/2016.

Seaboard Foods LLC Perryton Feedmill Perryton, Ochiltree County, TX	7.5-Min. USGS Quadrangle Map Date: Apr. 2024	ENVIRO–AG EAE ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

A.F: AFFECTED LANDOWNER INFORMATION

Parcel ID	Property Owner:	Address:	City, State & Zip
15316	SEABOARD FOODS LLC	9000 WEST 67TH STREET	SHAWNEE MISSION, KS 66202
15315, 15317	MONTGOMERY GARY T	13350 COUNTY ROAD U	PERRYTON, TX 79070
15319	STEED DAN EARL	PO BOX 281	GROOM, TX 79039
15264	PECKENPAUGH DAVID B	PO BOX 253	FARNSWORTH, TX 79033
15269, 15268	PSHIGODA BRIAN & TAMARACHENA	12444 FM 3045	PERRYTON, TX 79070
15267	THOMPSON JOEL D	PO BOX 215	FARNSWORTH, TX 79033
15270	LEATHERMAN EVELYN ESTATE	GAYNELLE HULSEY, 8409 BAXTER DR	AMARILLO, TX 79119
15273	SYMONS DEBRA SUE	14688 W LOOP 143	PERRYTON, TX 79070
15273	SYMONS PHILIP	701 S DRAKE ST	PERRYTON, TX 79070
15273	SYMONS JED P	14905 COUNTY ROAD 20	PERRYTON, TX 79070
18593	ELLIOTT FAMILY FARMS LLC & ELLIOTT DOROTHY ESTATE TRUST	13008 BURNT OAK RD	OKLAHOMA CITY, OK 73120
18596	CDH TRUST DTD 10-22-93	% CAROL HEFNER STEFFENS TRUSTEE #10, 25 HIGHLAND PARK VLG	DALLAS, TX 75205
15311	TEVIS TREV M	11750 FM 1267	PERRYTON, TX 79070
15311	TEVIS DENZEL D	914 SW 9TH AVE	PERRYTON, TX 79070
210086	SOUTHWESTERN PUBLIC SERVICE	ATTN PROPERTY TAX DEPARTMENT PO BOX 1979	DENVER, CO 80201
15313	NORRIS LAND COMPANY	PO BOX 1106	PERRYTON, TX 79070
15265, 15266	TAYLOR WESTON CLARK & KINZY LYNN TAYLOR	14061 COUNTY ROAD 9	PERRYTON, TX 79070



N
W E
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1320' 0 1320' 2640'

SCALE AS SHOWN

Source: Ochiltree County Appraisal District. Property Search and BIS Interactive Map. Available at: https://www.ochiltreecad.org/ – Accessed 4/2024.

Seaboard Foods LLC Perryton Feedmill Perryton, Ochiltree County, TX	Adjacent Property Owners Map Date: Apr. 2024	ENVIRO-AG ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

A.G: PHOTOGRAPHS

Photo #1 – Looking North-Northwest of Feedmill

Photo #2– Looking North-Northwest of Feedmill

Photo #3 – Looking East from County Road on West side of Feedmill

Photo #4– Looking Southeast-East from County Road on West side of Feedmill

A.H: SPIF

n/a – No TPDES

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 Instructions for Completing the Industrial Wastewater Permit Application[1] 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).

Feedmill for making swine feed for surrounding swine facilities owned by Seaboard Foods LLC. SIC 2048

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

Seaboard's Perryton Feedmill generates wastewater from boiler blowdown and water softener backwash. The boilers are used to produce steam to flake grains necessary feed preparation. Typically, the steam used in the feed preparation occurs at a rate of 4% water content held in the feed itself. Consequently, the gallons of water required for the operation are based on 11,000 tons of prepared feed per week. Water softening equipment utilizing a deionizing system is currently used to protect the boiler system from hard water. As a result, the water softening system will discharge water on a backwash/regeneration cycle. The boiler blowdown occurs at a 10% rate. As a result, the total wastewater generated from the boiler blowdown and water softener backwash is 24,000 gallons per day (MAX GPD).

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
Water	Steam	Prepared Feed Rations
Grain		Wastewater from Boiler Blowdown
Choline		Wastewater from Water Softener Backwash
Lysine		
Soybeans		

Attachment: n/a

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: Figure 3 of Engineering Report

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: Click to enter text.

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: USGS 7.5 Minute Series Quadrangle Topographic Map

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: Click to enter text.

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?

☐ Yes ☒ No ☐ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ 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.

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

No other treatment processes are proposed.

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: Figure 4 of Engineering Report

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons 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)	E	E		
Associated Outfall Number	E1	E2		
Liner Type (C) (I) (S) or (A)	C	C		
Alt. Liner Attachment Reference				
Leak Detection System, Y/N	N	N		
Groundwater Monitoring Wells, Y/N	N	N		
Groundwater Monitoring Data Attachment	N	N		
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y		
Length (ft)	239.7’	605.7		
Width (ft)	236.4’	344.1’		
Max Depth From Water Surface (ft), Not Including Freeboard	6.5’	605’		
Freeboard (ft)	2’	2’		
Surface Area (acres)	1.30	4.78		

Parameter	Pond #	Pond #	Pond #	Pond #
Storage Capacity (gallons)	1,596,670 as-built	6,526,796 proposed		
40 CFR Part 257, Subpart D, Y/N	N	N		
Date of Construction	12/18/2018	Proposed		

Attachment: Attachment T.E

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

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

☒ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☒ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☒ No ☐ Not yet designed

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

Attachment: Liner Specifications – Refer to Engineering Report

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)
E1	36.3429	-100.9250
E2	36.3436	-100.9257

Outfall Location Description

Outfall No.	Location Description
E1	Near southwest corner of Evaporation Pond #1
E2	Near southwest corner of Evaporation Pond #2

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

Outfall No.	Description of sampling point
E1	At inlet of Evaporation Pond #1
E2	At inlet of Evaporation Pond #2

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)
E1 & E2	0.00198		0.011	0.024	

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
E1/E2	Y	N	Flow Meter

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
E1/E2	Y	N	N	Up to 18	20 to 24	12

Outfall Wastestream Contributions

Outfall No. E1 & E2

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Boiler Blowdown	0.0157	65.6%
Water Softener Regeneration	0.0083	34.4%
	Total >0.024 (MAX)	

Outfall No. Click to enter text.

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

Outfall No. Click to enter text.

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

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☒ Yes ☐ No Use cooling towers that discharge blowdown or other wastestreams

☒ Yes ☐ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ 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: Appendix K of Engineering Report

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	n/a		
Boilers	2	0.0072	0.0157

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 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: Domestic sewage is treated separately onsite by use of a permitted OSSF at the feedmill

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.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
n/a	

Plant/Hauler Name	Permit/Registration No.

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☒ Yes ☐ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Construction of Evaporation Pond #2

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** Click to enter text.

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ 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.

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 ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. Click to enter text.

3. Cooling water is/will be obtained from a reclaimed water source?

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

☐ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

☐ Yes ☐ 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.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

☐ Yes ☐ No

If **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 allow 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. Compliance 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.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

☐ Track 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.

☐ Track 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).

☐ Track II – Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☒ Yes ☐ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Feedmill expansion with addition of second boiler and water softening system. Expansion will include the construction of Evaporation Pond #2 to handle the increased discharge of boiler blowdown and water softener backwash activities.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

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:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Peter B. Brown

Title: President and CEO, Seaboard Foods LLC

Signature: 

Date: 01 MAY 24

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:

- ☐ Irrigation
- ☒ Evaporation
- ☐ Evapotranspiration beds
- ☐ Drip irrigation system
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Surface application
- ☐ 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)
n/a – total evaporation	n/a	n/a	n/a

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: n/a

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:

☐ The exact boundaries of the land application area

☒ On-site buildings

☒ Waste-disposal or treatment facilities

☒ 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: Attachment T-C

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
Attached Table C-1 & Figure C-1				

Attachment: Attachment T-C

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

☐ Yes ☒ No

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:

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

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

a. ☒ USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.

b. ☐ Breakdown of acreage and percent of total acreage for each soil type.

c. ☐ Copies of laboratory soil analyses. **Attachment:** Click to enter text.

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 for Outfall No.: E1 **Samples are (check one):** ☐ **Composite** ☒ **Grab**

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
12/2023	0.00319						
11/2023	0.00507						
10/2023	0.00334						
09/2023	0.00497						
08/2023	0.00231						
07/2023	0.00541						
06/2023	0.00580						
05/2023	0.00826						
04/2023	0.00675						
03/2023	0.00581						
02/2023	0.00615						
01/2023	0.00688						
12/2022	0.00692						
11/2022	0.00745						
10/2022	0.00724						
09/2022	0.00727						
08/2022	0.00633						
07/2022	0.00452						
06/2022	0.00419						
05/2022	0.00472						
04/2022	0.00422						

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
03/2022	0.00656						
02/2022	0.00220						
01/2022	0.00375						

b. Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

Additional Parameter Effluent Analysis

Date (mo/yr)	TDS	pH					
12/2023	22100	8.9					
11/2023	13900	8.4					
10/2023	21500	8.85					
09/2023	23900	8.9					
08/2023	20500	8.35					
07/2023	24400	8.63					
06/2023	24800	8.49					
05/2023	29800	8.77					
04/2023	30600	8.94					
03/2023	27300	8.65					
02/2023	29100	8.85					
01/2023	29700	8.75					
12/2022	29700	8.39					
11/2022	34500	8.46					
10/2022	37000	8.4					
09/2022	35500	8.52					
08/2022	36000	8.6					
07/2022	28700	8.68					
06/2022	23400	8.85					
05/2022	23600	8.84					
04/2022	18100	8.92					
03/2022	21800	8.89					
02/2022	18600	8.82					
01/2022	23200	8.85					

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** This amendment application has taken into account the increased flow and corrective action is to construct an additional evaporation pond.

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): 4/3/24

b. ☒ 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.: E1 **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)	162			
CBOD (5-day)	32.9			
Chemical oxygen demand	115			
Total organic carbon	3.11			
Dissolved oxygen	9.29			
Ammonia nitrogen	0.750			
Total suspended solids	198			
Nitrate nitrogen	<0.1			
Total organic nitrogen	12.15			
Total phosphorus	1.76			
Oil and grease	2.67			
Total residual chlorine	<0.10			
Total dissolved solids	16,100			
Sulfate	866			
Chloride	10,200			
Fluoride	9.51			
Total alkalinity (mg/L as CaCO3)	354			
Temperature (˚F)	-			
pH (standard units)	8.86 onsite pH testing			

Table 16 for Outfall No.: E1 **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	539				2.5

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Antimony, total	<8.47				5
Arsenic, total	20.2				0.5
Barium, total	298				3
Beryllium, total	<0.0605				0.5
Cadmium, total	0.108				1
Chromium, total	7.52				3
Chromium, hexavalent	<3.0				3
Chromium, trivalent	4.52				N/A
Copper, total	913				2
Cyanide, available	<2.38				2/10
Lead, total	0.823				0.5
Mercury, total	0.00662				0.005/0.0005
Nickel, total	21.5				2
Selenium, total	35.3				5
Silver, total	0.449				0.5
Thallium, total	0.372				0.5
Zinc, total	29.1				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): n/a

Design application rate (acre-ft/acre/yr): n/a

Design application frequency (hours/day): n/a

Design application frequency (days/week): n/a

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

Average slope of the application area (percent): n/a

Maximum slope of the application area (percent): n/a

Irrigation efficiency (percent): n/a

Effluent conductivity (mmhos/cm): n/a

Soil conductivity (mmhos/cm): n/a

Curve number: n/a

Describe the application method and equipment: n/a total evaporation

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** Click to enter text.

Item 3. Evaporation Ponds (Instructions, Page 74)

a. Daily average effluent flow into ponds: 0.011 gallons per day

b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** Attachment T.E

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: n/a

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:** Click to enter text.

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): n/a

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 WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SUBSURFACE IRRIGATION (NON-DRIP)

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

☐ Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

Item 1. Edwards Aquifer (Instructions, Page 75)

a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?

☐ Yes ☐ No

b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?

☐ Yes ☐ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

Item 2. Subsurface Application (Instructions, Page 75)

a. Check the box next to the type of subsurface land disposal system requested:

☐ Conventional drainfield, beds, or trenches

☐ Low pressure dosing

☐ Other: Click to enter text.

b. Provide the following information on the irrigation operations:

Application area (acres): Click to enter text.

Area of drainfield (square feet): Click to enter text.

Application rate (gal/square ft/day): Click to enter text.

Depth to groundwater (feet): Click to enter text.

Area of trench (square feet): Click to enter text.

Dosing duration per area (hours): Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area (inches/day): Click to enter text.

Soil infiltration rate (inches/hour): Click to enter text.

Storage volume (gallons): Click to enter text.

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

Soil classification: Click to enter text.

c. Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation. **Attachment:** Click to enter text.

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

SAMPLE CROSS REFERENCE

Project
1100579

Add Alkalinity and DO

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Sample	Sample ID	Taken	Time	Received
2292961	Seaboard-Perryton Feedmill	04/03/2024	11:00:00	04/04/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 Polyethylene Quart
Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 06 Glass /clean metals w/HCl
Bottle 07 16 oz HNO3 Metals Plastic
Bottle 08 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 8 oz Plastic H2SO4 pH < 2
Bottle 11 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 12 Cr+6 Preserved 250 Polyethylene
Bottle 13 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 14 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 15 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 16 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 17 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 18 BOD Titration Beaker A (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 19 BOD Analytical Beaker B (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 20 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1112880) Volume: 20.00000 mL <== Derived from 09 (20 ml)
Bottle 21 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1112938) Volume: 6.00000 mL <== Derived from 09 (0.5 ml)
Bottle 22 Prepared Bottle: ICP Preparation for Metals (Batch 1112958) Volume: 50.00000 mL <== Derived from 07 (50 ml)
Bottle 23 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 24 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 25 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 26 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1113017) Volume: 10.00000 mL <== Derived from 11 (5 ml)
Bottle 27 Prepared Bottle: Mercury Preparation for Metals (Batch 1113334) Volume: 50.00000 mL <== Derived from 06 (47 ml)
Bottle 28 BOD Titration Beaker A (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 29 BOD Analytical Beaker B (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1114180) Volume: 6.00000 mL <== Derived from 09 (6 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1114410) Volume: 50.00000 mL <== Derived from 07 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1114453	04/15/2024	1114453	04/15/2024
EPA 300.0 2.1	02	1112949	04/04/2024	1112949	04/04/2024
EPA 300.0 2.1	02	1114084	04/11/2024	1114084	04/11/2024
EPA 200.8 5.4	22	1112958	04/05/2024	1113266	04/08/2024
EPA 200.8 5.4	22	1112958	04/05/2024	1113991	04/11/2024
EPA 200.7 4.4	22	1112958	04/05/2024	1113107	04/05/2024
EPA 200.7, Rev. 4.4	23	1113006	04/05/2024	1113171	04/08/2024

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SAMPLE CROSS REFERENCE

Project
1100579

Add Alkalinity and DO

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Sample	Sample ID	Taken	Time	Received
2292961	Seaboard-Perryton Feedmill	04/03/2024	11:00:00	04/04/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 Polyethylene Quart
Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 06 Glass /clean metals w/HCl
Bottle 07 16 oz HNO3 Metals Plastic
Bottle 08 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 8 oz Plastic H2SO4 pH < 2
Bottle 11 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 12 Cr+6 Preserved 250 Polyethylene
Bottle 13 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 14 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 15 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 16 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 17 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 18 BOD Titration Beaker A (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 19 BOD Analytical Beaker B (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 20 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1112880) Volume: 20.00000 mL <== Derived from 09 (20 ml)
Bottle 21 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1112938) Volume: 6.00000 mL <== Derived from 09 (0.5 ml)
Bottle 22 Prepared Bottle: ICP Preparation for Metals (Batch 1112958) Volume: 50.00000 mL <== Derived from 07 (50 ml)
Bottle 23 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 24 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 25 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 26 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1113017) Volume: 10.00000 mL <== Derived from 11 (5 ml)
Bottle 27 Prepared Bottle: Mercury Preparation for Metals (Batch 1113334) Volume: 50.00000 mL <== Derived from 06 (47 ml)
Bottle 28 BOD Titration Beaker A (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 29 BOD Analytical Beaker B (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1114180) Volume: 6.00000 mL <== Derived from 09 (6 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1114410) Volume: 50.00000 mL <== Derived from 07 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	22	1112958	04/05/2024	1113758	04/10/2024
EPA 245.7 2	27	1113334	04/09/2024	1113662	04/10/2024
EPA 200.8 5.4	31	1114410	04/16/2024	1114791	04/17/2024
SM 2320 B-2011	02	1116729	04/29/2024	1116729	04/29/2024
SM 5210 B-2016		1113711	04/16/2024	1113711	04/16/2024
SM 5210 B-2016 (TCMP Inhibitor)	01	1112856	04/10/2024	1112856	04/10/2024
SM 4500-CN^- E-2016	26	1113017	04/05/2024	1114096	04/12/2024

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SAMPLE CROSS REFERENCE

Project
1100579

Add Alkalinity and DO

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Sample	Sample ID	Taken	Time	Received
2292961	*Seaboard-Perryton Feedmill*	04/03/2024	11:00:00	04/04/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 Polyethylene Quart
Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 06 Glass /clean metals w/HCl
Bottle 07 16 oz HNO3 Metals Plastic
Bottle 08 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 8 oz Plastic H2SO4 pH < 2
Bottle 11 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 12 Cr+6 Preserved 250 Polyethylene
Bottle 13 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 14 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 15 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 16 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 17 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 18 BOD Titration Beaker A (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 19 BOD Analytical Beaker B (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 20 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1112880) Volume: 20.00000 mL <== Derived from 09 (20 ml)
Bottle 21 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1112938) Volume: 6.00000 mL <== Derived from 09 (0.5 ml)
Bottle 22 Prepared Bottle: ICP Preparation for Metals (Batch 1112958) Volume: 50.00000 mL <== Derived from 07 (50 ml)
Bottle 23 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 24 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 25 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 26 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1113017) Volume: 10.00000 mL <== Derived from 11 (5 ml)
Bottle 27 Prepared Bottle: Mercury Preparation for Metals (Batch 1113334) Volume: 50.00000 mL <== Derived from 06 (47 ml)
Bottle 28 BOD Titration Beaker A (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 29 BOD Analytical Beaker B (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1114180) Volume: 6.00000 mL <== Derived from 09 (6 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1114410) Volume: 50.00000 mL <== Derived from 07 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 5220 D-2011	09	1113448	04/09/2024	1113448	04/09/2024
SM 2510 B-2011	01	1113374	04/09/2024	1113374	04/09/2024
SM 4500-Cl F-2011	01	1113035	04/04/2024	1113035	04/04/2024
Calculation			04/16/2024		04/16/2024
SM 3500-Cr B-2011	12	1113429	04/08/2024	1113429	04/08/2024
SM 3500-Cr B-2011		1113823	04/03/2024	1113823	04/03/2024
SM 4500-O G-2016	01	1116109	04/25/2024	1116109	04/25/2024

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SAMPLE CROSS REFERENCE

Project
1100579

Add Alkalinity and DO

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Sample	Sample ID	Taken	Time	Received
2292961	*Seaboard-Perryton Feedmill*	04/03/2024	11:00:00	04/04/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 Polyethylene Quart
Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 06 Glass /clean metals w/HCl
Bottle 07 16 oz HNO3 Metals Plastic
Bottle 08 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 8 oz Plastic H2SO4 pH < 2
Bottle 11 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 12 Cr+6 Preserved 250 Polyethylene
Bottle 13 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 14 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 15 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 16 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 17 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 18 BOD Titration Beaker A (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 19 BOD Analytical Beaker B (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 20 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1112880) Volume: 20.00000 mL <== Derived from 09 (20 ml)
Bottle 21 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1112938) Volume: 6.00000 mL <== Derived from 09 (0.5 ml)
Bottle 22 Prepared Bottle: ICP Preparation for Metals (Batch 1112958) Volume: 50.00000 mL <== Derived from 07 (50 ml)
Bottle 23 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 24 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 25 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 26 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1113017) Volume: 10.00000 mL <== Derived from 11 (5 ml)
Bottle 27 Prepared Bottle: Mercury Preparation for Metals (Batch 1113334) Volume: 50.00000 mL <== Derived from 06 (47 ml)
Bottle 28 BOD Titration Beaker A (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 29 BOD Analytical Beaker B (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1114180) Volume: 6.00000 mL <== Derived from 09 (6 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1114410) Volume: 50.00000 mL <== Derived from 07 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 1664B (HEM)	05	1114108	04/11/2024	1114108	04/11/2024
EPA 350.1 2	30	1114180	04/13/2024	1114394	04/15/2024
EPA 351.2 minus EPA 350.1			04/16/2024		04/16/2024
600/2-78-054 3.2.19			04/16/2024		04/16/2024
SM 2540 C-2015	03	1113232	04/05/2024	1113232	04/05/2024
EPA 351.2 2	20	1112880	04/05/2024	1113395	04/09/2024
SM 5310 C-2014	08	1113775	04/10/2024	1113775	04/10/2024

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SAMPLE CROSS REFERENCE

Project
1100579

Printed 4/30/2024 Page 5 of 5

EnviroAg Engineering
Marsha Shoemaker
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Amarillo, TX 79118

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Sample	Sample ID	Taken	Time	Received
2292961	Seaboard-Perryton Feedmill	04/03/2024	11:00:00	04/04/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 Polyethylene Quart
Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 06 Glass /clean metals w/HCl
Bottle 07 16 oz HNO3 Metals Plastic
Bottle 08 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 8 oz Plastic H2SO4 pH < 2
Bottle 11 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 12 Cr+6 Preserved 250 Polyethylene
Bottle 13 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized
Bottle 14 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 15 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 16 BOD Titration Beaker A (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 17 BOD Analytical Beaker B (Batch 1112856) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 18 BOD Titration Beaker A (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 19 BOD Analytical Beaker B (Batch 1112855) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 20 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1112880) Volume: 20.00000 mL <== Derived from 09 (20 ml)
Bottle 21 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1112938) Volume: 6.00000 mL <== Derived from 09 (0.5 ml)
Bottle 22 Prepared Bottle: ICP Preparation for Metals (Batch 1112958) Volume: 50.00000 mL <== Derived from 07 (50 ml)
Bottle 23 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 24 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 25 Prepared Bottle: Prep for Dissolved Metals (Batch 1113006) Volume: 30.00000 mL <== Derived from 02 (30 ml)
Bottle 26 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1113017) Volume: 10.00000 mL <== Derived from 11 (5 ml)
Bottle 27 Prepared Bottle: Mercury Preparation for Metals (Batch 1113334) Volume: 50.00000 mL <== Derived from 06 (47 ml)
Bottle 28 BOD Titration Beaker A (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 29 BOD Analytical Beaker B (Batch 1113711) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1114180) Volume: 6.00000 mL <== Derived from 09 (6 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1114410) Volume: 50.00000 mL <== Derived from 07 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 2540 D-2015	01	1113141	04/05/2024	1113141	04/05/2024
SM 4500-H+ B-2011	01	1113180	04/08/2024	1113180	04/08/2024

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1

ENAD-P

Project
1100579

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Printed: 04/30/2024

Add Alkalinity and DO

RESULTS

Sample Results

2292961 Seaboard-Perryton Feedmill Received: 04/04/2024

Non-Potable Water Collected by: Client EnviroAg Engineering PO:
Taken: 04/03/2024 11:00:00

Supplement to Test Report 2287244

6002-78-054 3.2.19 Prepared: 04/16/2024 15:38:23 Calculated 04/16/2024 15:38:23 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
	Sodium Adsorption Ratio - Liquid	**29.3**	**1**				

Calculation Prepared: 04/16/2024 15:38:20 Calculated 04/16/2024 15:38:20 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Trivalent Chromium**	**0.00452**	**mg/L**	0.003		**16065-83-1**	

EPA 1664B (HEM) Prepared: 1114108 04/11/2024 07:50:00 Analyzed 1114108 04/11/2024 07:50:00 MAX

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Oil and Grease (HEM)**	**2.67**	**mg/L**	4.65	J		05

EPA 200.7 4.4 Prepared: 1112958 04/05/2024 10:00:00 Analyzed 1113107 04/05/2024 14:09:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Boron**	**1.18**	**mg/L**	0.008		**7440-42-8**	22
NELAC	**Phosphorus**	**1.76**	**mg/L**	0.040		**7723-14-0**	22

EPA 200.7, Rev. 4.4 Prepared: 1113006 04/05/2024 10:30:00 Analyzed 1113171 04/08/2024 11:23:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Dissolved Calcium**	**11.1**	**mg/L**	50.0	JP	**7440-70-2**	23
NELAC	**Dissolved Magnesium**	**16.5**	**mg/L**	50.0	JP	**7439-95-4**	23
NELAC	**Dissolved Sodium**	**661**	**mg/L**	50.0	P	**7440-23-5**	23

EPA 200.8 5.4 Prepared: 1112958 04/05/2024 10:00:00 Analyzed 1113266 04/08/2024 17:23:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Arsenic, Total**	**0.0202**	**mg/L**	0.0005		**7440-38-2**	22

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1

ENAD-P

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Project
1100579

Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

Non-Potable Water | Collected by: Client | EnviroAg Engineering | PO:
Taken: 04/03/2024 11:00:00

Supplement to Test Report 2287244

EPA 200.8 5.4 Prepared: 1112958 04/05/2024 10:00:00 Analyzed 1113266 04/08/2024 17:23:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Barium, Total**	**0.298**	**mg/L**	0.002		**7440-39-3**	22
NELAC	**Beryllium, Total**	**<0.0000605**	**mg/L**	0.0000605		**7440-41-7**	22
NELAC	**Cadmium, Total**	**0.000108**	**mg/L**	0.0005	J	**7440-43-9**	22
NELAC	**Copper, Total**	**0.913**	**mg/L**	0.001		**7440-50-8**	22
NELAC	**Lead, Total**	**0.000823**	**mg/L**	0.0005		**7439-92-1**	22
NELAC	**Nickel, Total**	**0.0215**	**mg/L**	0.001		**7440-02-0**	22
NELAC	**Selenium, Total**	**0.0353**	**mg/L**	0.002		**7782-49-2**	22
NELAC	**Silver, Total**	**0.000449**	**mg/L**	0.0002		**7440-22-4**	22
NELAC	**Zinc, Total**	**0.0291**	**mg/L**	0.005		**7440-66-6**	22

EPA 200.8 5.4 Prepared: 1112958 04/05/2024 10:00:00 Analyzed 1113758 04/10/2024 16:14:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chromium, Total**	**0.00752**	**mg/L**	0.001		**7440-47-3**	22

EPA 200.8 5.4 Prepared: 1112958 04/05/2024 10:00:00 Analyzed 1113991 04/11/2024 17:02:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Aluminum, Total**	**0.539**	**mg/L**	0.050		**7429-90-5**	22
NELAC	**Antimony, Total**	**<0.00847**	**mg/L**	0.00847		**7440-36-0**	22

EPA 200.8 5.4 Prepared: 1114410 04/16/2024 07:30:00 Analyzed 1114791 04/17/2024 09:50:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Thallium, Total**	**0.000372**	**mg/L**	0.001	J	**7440-28-0**	31

EPA 245.7 2 Prepared: 1113334 04/09/2024 12:00:00 Analyzed 1113662 04/10/2024 14:27:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**6.62**	**ng/L**	5.32		**7439-97-6**	27

EPA 300.0 2.1 Prepared: 1112949 04/04/2024 17:11:00 Analyzed 1112949 04/04/2024 17:11:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Fluoride**	**9.51**	**mg/L**	1.00			02
NELAC	**Nitrate-Nitrogen Total**	**<0.1**	**mg/L**	0.1		**14797-55-8**	02

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EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Project
1100579

Printed: 04/30/2024

2292961 Seaboard-Perryton Feedmill Received: 04/04/2024

Non-Potable Water | Collected by: Client | EnviroAg Engineering | PO:
Taken: 04/03/2024 11:00:00

Supplement to Test Report 2287244

EPA 300.0 2.1 Prepared: 1114084 04/11/2024 13:35:00 Analyzed 1114084 04/11/2024 13:35:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Sulfate**	**866**	**mg/L**	30.0			02

EPA 300.0 2.1 Prepared: 1114453 04/15/2024 13:45:00 Analyzed 1114453 04/15/2024 13:45:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chloride**	**10200**	**mg/L**	300			01

EPA 350.1 2 Prepared: 1114180 04/13/2024 10:19:27 Analyzed 1114394 04/15/2024 16:36:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Ammonia Nitrogen**	**0.750**	**mg/L**	0.020			30

EPA 351.2 2 Prepared: 1112880 04/05/2024 08:32:14 Analyzed 1113395 04/09/2024 07:51:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**12.9**	**mg/L**	0.500		**7727-37-9**	20

EPA 351.2 minus EPA 350.1 Prepared: 04/16/2024 15:38:20 Calculated 04/16/2024 15:38:20 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nitrogen, Total Organic (as N)**	**12.150**	**mg/L**	0.500			

SM 2320 B-2011 Prepared: 1116729 04/29/2024 11:22:00 Analyzed 1116729 04/29/2024 11:22:00 KN1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Alkalinity (as CaCO3)**	**354**	**mg/L**	1.00	H		02

SM 2510 B-2011 Prepared: 1113374 04/09/2024 12:45:00 Analyzed 1113374 04/09/2024 12:45:00 ALH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Lab Spec. Conductance at 25 C**	**29900**	**umhos/cm**				01

SM 2540 C-2015 Prepared: 1113232 04/05/2024 09:00:00 Analyzed 1113232 04/05/2024 09:00:00 JK1

Parameter	Results	Units	RL	Flags	CAS	Bottle

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ENAD-P

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

Project
1100579

Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

Non-Potable Water Collected by: Client EnviroAg Engineering PO:
Taken: 04/03/2024 11:00:00

Supplement to Test Report 2287244

SM 2540 C-2015 Prepared: 1113232 04/05/2024 09:00:00 Analyzed: 1113232 04/05/2024 09:00:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Dissolved Solids**	**16100**	**mg/L**	500			03

SM 2540 D-2015 Prepared: 1113141 04/05/2024 13:50:00 Analyzed: 1113141 04/05/2024 13:50:00 ADR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Suspended Solids**	**198**	**mg/L**	20.0			01

SM 3500-Cr B-2011 Prepared: 1113429 04/08/2024 14:45:00 Analyzed: 1113429 04/08/2024 14:45:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<3.00**	**ug/L**	3.00		**18540-29-9**	12

SM 3500-Cr B-2011 Prepared: 1113823 04/03/2024 16:18:00 Analyzed: 1113823 04/03/2024 16:18:00 DWC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hex Cr, Field Preservation**	**preserved**	**ug/L**	3		**18540-29-9**	

SM 4500-Cl F-2011 Prepared: 1113035 04/04/2024 15:32:00 Analyzed: 1113035 04/04/2024 15:32:00 KN1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cl2 Residual,Total(Lab)Titration**	**<0.100**	**mg/L**	0.100			01

SM 4500-CN¯ E-2016 Prepared: 1113017 04/05/2024 15:25:12 Analyzed: 1114096 04/12/2024 07:48:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**<0.00238**	**mg/L**	0.00238			26

SM 4500-H+ B-2011 Prepared: 1113180 04/08/2024 11:35:00 Analyzed: 1113180 04/08/2024 11:35:00 ALH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Laboratory pH**	**9.3@21C**	**SU**	2.00			01

SM 4500-O G-2016 Prepared: 1116109 04/25/2024 08:57:14 Analyzed: 1116109 04/25/2024 08:57:14 JW1

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Project
1100579

Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

Non-Potable Water Collected by: Client EnviroAg Engineering PO:
Taken: 04/03/2024 11:00:00

Supplement to Test Report 2287244

SM 4500-O G-2016 Prepared: 1116109 04/25/2024 08:57:14 Analyzed: 1116109 04/25/2024 08:57:14 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Dissolved Oxygen, in Lab**	**9.29**	**mg/L**	1.00			01

SM 5210 B-2016 Prepared: 1113711 04/11/2024 Analyzed: 1113711 04/16/2024 13:28:00 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Biochemical Oxygen Demand (BOD5)**	**162**	**mg/L**	100		**1026-3**	

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1112856 04/05/2024 Analyzed: 1112856 04/10/2024 13:20:44 ESN

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**BOD Carbonaceous**	**32.9**	**mg/L**	3.00			01

SM 5220 D-2011 Prepared: 1113448 04/09/2024 07:35:00 Analyzed: 1113448 04/09/2024 07:35:00 RD1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chemical Oxygen Demand**	**115**	**mg/L**	22.0			09

SM 5310 C-2014 Prepared: 1113775 04/10/2024 20:44:00 Analyzed: 1113775 04/10/2024 20:44:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Organic Carbon**	**3.11**	**mg/L**	0.500			08

Sample Preparation

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

04/03/2024

Prepared: 04/08/2024 09:38:50 Calculated 04/08/2024 09:38:50 CAL

z **Environmental Fee (per Project)** **Verified**

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Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

04/03/2024

		Prepared:		04/30/2024	08:13:00	Analyzed		04/30/2024	08:13:00	WJP
z	Level IV Data Review	Completed								
z	Level IV Data Review	Completed								
EPA 1664B (HEM)		Prepared:	1113796	04/11/2024	07:50:00	Analyzed	1113796	04/11/2024	07:50:00	MAX
NELAC	O&G HEM Started	Started								
EPA 200.2 2.8		Prepared:	1112958	04/05/2024	10:00:00	Analyzed	1112958	04/05/2024	10:00:00	KB1
z	Liquid Metals Digestion	50/50	ml							07
EPA 200.2 2.8		Prepared:	1114410	04/16/2024	07:30:00	Analyzed	1114410	04/16/2024	07:30:00	CAS
z	Liquid Metals Digestion	50/50	ml							07
EPA 245.7 2		Prepared:	1113334	04/09/2024	12:00:00	Analyzed	1113334	04/09/2024	12:00:00	MP1
NELAC	Low Level Mercury Liquid Metals	50/47	ml							06
EPA 350.2, Rev. 2.0		Prepared:	1112938	04/05/2024	11:07:52	Analyzed	1112938	04/05/2024	11:07:52	MEG
NELAC	Ammonia Distillation	6/0.5	ml							09
EPA 350.2, Rev. 2.0		Prepared:	1114180	04/13/2024	10:19:27	Analyzed	1114180	04/13/2024	10:19:27	SRJ
NELAC	Ammonia Distillation	6/6	ml							09
EPA 351.2, Rev 2.0		Prepared:	1112880	04/05/2024	08:32:14	Analyzed	1112880	04/05/2024	08:32:14	MEG

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Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

04/03/2024

EPA 351.2, Rev 2.0		Prepared:	1112880	04/05/2024	08:32:14	Analyzed	1112880	04/05/2024	08:32:14	MEG
NELAC	TKN Block Digestion	20/20	ml							09
SM 2540 C-2015		Prepared:	1112864	04/05/2024	09:00:00	Analyzed	1112864	04/05/2024	09:00:00	JK1
NELAC	Total Dissolved Solids Started	Started								
SM 2540 D-2011		Prepared:	1112418	04/05/2024	13:50:00	Analyzed	1112418	04/05/2024	13:50:00	ADR
NELAC	TSS Set Started	Started								
SM 3030 B-2004		Prepared:		04/08/2024	09:38:50	Calculated		04/08/2024	09:38:50	CAL
z	Dissolved Metals Filter (Field)	Verified								
SM 3030 B-2004		Prepared:	1113006	04/05/2024	10:30:00	Analyzed	1113006	04/05/2024	10:30:00	ALB
z	Dissolved (Wastewater) Filtering	30/30	ml			H				02
SM 4500-CN¯C-2016		Prepared:	1113017	04/05/2024	15:25:12	Analyzed	1113017	04/05/2024	15:25:12	SRJ
NELAC	Cyanide Distillation	10/5	ml							11
SM 5210 B-2016		Prepared:	1112855	04/05/2024		Analyzed	1112855	04/05/2024	06:53:16	ESN
NELAC	BOD Set Started	Started				H3				
SM 5210 B-2016		Prepared:	1113711	04/11/2024		Analyzed	1113711	04/11/2024	06:03:18	JW1
NELAC	BOD Set Started	Started								

LDSClient v2.24.4.18 Panhandle Region: 3350 Olsen Blvd. Ste 1700 Amarillo TX 79109 Form rptPROJRESN Created 12/19/2019v1.2

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Printed: 04/30/2024

2292961 **Seaboard-Perryton Feedmill** Received: 04/04/2024

04/03/2024

SM 5210 B-2016 (TCMP Inhibitor) *Prepared: 1112856 04/05/2024* *Analyzed 1112856 04/05/2024 06:53:16 ESN*

NELAC **BODc Set Started** **Started**

Qualifiers:

J - Analyte detected below quantitation limit
H - Sample started outside recommended holding time
3 - Sample originally analyzed within holding time.
P - Spike recovery outside control limits due to matrix effects.

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

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

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

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

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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2

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Printed 04/30/2024

Analytical Set **1112856** **SM 5210 B-2016 (TCMP Inhibitor)**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1112856	0.2	0.200	0.500	mg/L	126183213
BOD Carbonaceous	1112856	0.1	0.200	0.500	mg/L	126183269
BOD Carbonaceous	1112856	0.1	0.200	0.500	mg/L	126186378

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
BOD Carbonaceous	2287070	4.16	5.00	mg/L	18.3		30.0
BOD Carbonaceous	2287244	31.3	32.9	mg/L	4.98		30.0
BOD Carbonaceous	2287344	4.43	3.07	mg/L	36.3	*	30.0
BOD Carbonaceous	2287506	3.51	3.27	mg/L	7.08		30.0
BOD Carbonaceous	2287675	10.9	7.95	mg/L	31.3	*	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1112856	0.850	0.200	0.500	mg/L	126183215
BOD Carbonaceous	1112856	0.833	0.200	0.500	mg/L	126183271
BOD Carbonaceous	1112856	0.883	0.200	0.500	mg/L	126186380

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		227	198	mg/L	115	83.7 - 116	126183216
BOD Carbonaceous		215	198	mg/L	109	83.7 - 116	126183272
BOD Carbonaceous		215	198	mg/L	109	83.7 - 116	126186381

Analytical Set **1113711** **SM 5210 B-2016**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1113711	0.2	0.200	0.500	mg/L	126201377
Biochemical Oxygen Demand (BOD5)	1113711	0.2	0.200	0.500	mg/L	126201427
Biochemical Oxygen Demand (BOD5)	1113711	0.2	0.200	0.500	mg/L	126201479
Biochemical Oxygen Demand (BOD5)	1113711	0.2	0.200	0.500	mg/L	126201529

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Biochemical Oxygen Demand (BOD5)	2288642	6.40	6.12	mg/L	4.47	30.0
Biochemical Oxygen Demand (BOD5)	2288661	18.3	23.1	mg/L	23.2	30.0
Biochemical Oxygen Demand (BOD5)	2288794	19.0	22.4	mg/L	16.4	30.0
Biochemical Oxygen Demand (BOD5)	2288871	4100	5000	mg/L	19.8	30.0
Biochemical Oxygen Demand (BOD5)	2288960	37.8	41.7	mg/L	9.81	30.0
Biochemical Oxygen Demand (BOD5)	2288993	6.57	5.89	mg/L	10.9	30.0
Biochemical Oxygen Demand (BOD5)	2289011	169	176	mg/L	4.06	30.0
Biochemical Oxygen Demand (BOD5)	2289198	99.4	78.7	mg/L	23.2	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File

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Project 1100579

Printed 04/30/2024

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1113711	0.670	0.200	0.500	mg/L	126201379
Biochemical Oxygen Demand (BOD5)	1113711	0.787	0.200	0.500	mg/L	126201429
Biochemical Oxygen Demand (BOD5)	1113711	0.887	0.200	0.500	mg/L	126201481
Biochemical Oxygen Demand (BOD5)	1113711	0.747	0.200	0.500	mg/L	126201531

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Biochemical Oxygen Demand (BOD5)		229	198	mg/L	116	83.7 - 116	126201380
Biochemical Oxygen Demand (BOD5)		228	198	mg/L	115	83.7 - 116	126201430
Biochemical Oxygen Demand (BOD5)		213	198	mg/L	108	83.7 - 116	126201482
Biochemical Oxygen Demand (BOD5)		206	198	mg/L	104	83.7 - 116	126201532

Analytical Set 1116109 — SM 4500-O G-2016

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Dissolved Oxygen, in Lab	2292961	9.31	9.29	mg/L	0.215	20.0

Analytical Set 1113395 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1112880	ND	0.00712	0.050	mg/L	126196398

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	126196383
Total Kjeldahl Nitrogen	5.49	5.00	mg/L	110	90.0 - 110	126196392
Total Kjeldahl Nitrogen	5.49	5.00	mg/L	110	90.0 - 110	126196402
Total Kjeldahl Nitrogen	5.49	5.00	mg/L	110	90.0 - 110	126196410
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	126196419
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	126196429
Total Kjeldahl Nitrogen	5.49	5.00	mg/L	110	90.0 - 110	126196440
Total Kjeldahl Nitrogen	5.48	5.00	mg/L	110	90.0 - 110	126196451
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	126196452
Total Kjeldahl Nitrogen	5.45	5.00	mg/L	109	90.0 - 110	126196453
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	126196459
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	126196460

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Total Kjeldahl Nitrogen	2284972	0.248	0.316	mg/L	24.1	*	20.0
Total Kjeldahl Nitrogen	2286985	0.208	0.229	mg/L	9.61		20.0
Total Kjeldahl Nitrogen	2286986	0.206	0.214	mg/L	3.81		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	126196382

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Project 1100579

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1112880	5.07	4.98	5.00	90.0 - 110	101	99.6	mg/L	1.79	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2284972	5.13	0.316	5.00	mg/L	96.3	80.0 - 120	126196397
Total Kjeldahl Nitrogen	2286985	5.45	0.229	5.00	mg/L	104	80.0 - 120	126196404
Total Kjeldahl Nitrogen	2286986	5.37	0.214	5.00	mg/L	103	80.0 - 120	126196407

Analytical Set 1114096 — SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1113017	ND	0.00238	0.005	mg/L	126211492

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.509	0.500	mg/L	102	90.0 - 110	126211491
Cyanide, total	0.508	0.500	mg/L	102	90.0 - 110	126211501
Cyanide, total	0.504	0.500	mg/L	101	90.0 - 110	126211502
Cyanide, total	0.507	0.500	mg/L	101	90.0 - 110	126211506
Cyanide, total	0.509	0.500	mg/L	102	90.0 - 110	126211507
Cyanide, total	0.510	0.500	mg/L	102	90.0 - 110	126211508
Cyanide, total	0.508	0.500	mg/L	102	90.0 - 110	126211509
Cyanide, total	0.506	0.500	mg/L	101	90.0 - 110	126211511
Cyanide, total	0.505	0.500	mg/L	101	90.0 - 110	126211521

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide, total	2287082	0.025	0.027	mg/L	7.69	20.0
Cyanide, total	2287111	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.205	0.200	mg/L	102	90.0 - 110	126211490

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1113017	0.429	0.422	0.400	90.0 - 110	107	106	mg/L	1.65	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2287082	0.398	0.027	0.400	mg/L	92.8	90.0 - 110	126211497
Cyanide, total	2287111	0.406	ND	0.400	mg/L	102	90.0 - 110	126211500

Analytical Set 1114394 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1114180	ND	0.00336	0.020	mg/L	126219099

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219006
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126219015
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219026
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219035
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219043
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	126219053
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219064
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126219071
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126219082
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126219093
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	126219104
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126219113
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	126219120
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	126219131
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	126219137
Ammonia Nitrogen	2.11	2.00	mg/L	106	90.0 - 110	126219145
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	126219146
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126219152

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Ammonia Nitrogen	2287675	4.39	4.44	mg/L	1.13		20.0
Ammonia Nitrogen	2288000	0.190	0.129	mg/L	38.2	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	126219005

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1114180	2.10	2.17	2.00	90.0 - 110	105	108	mg/L	3.28	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2287675	4.65	4.44	2.00	mg/L	10.5	80.0 - 120	126219105	*
Ammonia Nitrogen	2288000	2.25	0.129	2.00	mg/L	106	80.0 - 120	126219108	

Analytical Set 1113141 — SM 2540 D-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1113141	ND	2	2	mg/L	126190612

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1113141	0			grams	126190611

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2287356	402	418	mg/L	3.90	20.0
Total Suspended Solids	2287659	7.80	8.60	mg/L	9.76	20.0
Total Suspended Solids	2287666	4.00	4.25	mg/L	6.06	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Suspended Solids	1113141	48.0	50.0	mg/L	96.0	90.0 - 110	126190645

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Suspended Solids		90.0	100	mg/L	90.0	90.0 - 110	126190644

Analytical Set 1113232 — SM 2540 C-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1113232	ND	5.00	5.00	mg/L	126192282

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1113232	-0.0003			grams	126192269

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Dissolved Solids	2287244	16900	16100	mg/L	4.85	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Dissolved Solids	1113232	194	200	mg/L	97.0	85.0 - 115	126192283

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Dissolved Solids		96.0	100	mg/L	96.0	90.0 - 110	126192270

Analytical Set 1114108 — EPA 1664B (HEM)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1114108	1.10	0.804	4.00	mg/L	126211797

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1114108	0.0002			grams	126211796
Oil and Grease (HEM)	1114108	0.0003			grams	126211821

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Oil and Grease (HEM)	1114108	36.0	40.0	mg/L	90.0	78.0 - 114	126211798

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM)	2286933	24.0	0	1.11	40.0	78.0 - 114	60.0 *		mg/L		20.0

Analytical Set 1112949 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	0.128	0.100	mg/L	128	70.0 - 130	126186244
Nitrate-Nitrogen Total	0.026	0.0226	mg/L	115	70.0 - 130	126186244

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1112949	ND	0.010	0.100	mg/L	126186245
Nitrate-Nitrogen Total	1112949	ND	0.00745	0.0226	mg/L	126186245

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1112949	0	0.010	0.100	mg/L	126186241
Fluoride	1112949	0	0.010	0.100	mg/L	126186261
Fluoride	1112949	0	0.010	0.100	mg/L	126186273
Nitrate-Nitrogen Total	1112949	0.000451	0.00745	0.0226	mg/L	126186241
Nitrate-Nitrogen Total	1112949	0	0.00745	0.0226	mg/L	126186261
Nitrate-Nitrogen Total	1112949	0	0.00745	0.0226	mg/L	126186273

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	126186240
Fluoride	10.4	10.0	mg/L	104	90.0 - 110	126186260
Fluoride	10.3	10.0	mg/L	103	90.0 - 110	126186272
Nitrate-Nitrogen Total	2.18	2.26	mg/L	96.5	90.0 - 110	126186240
Nitrate-Nitrogen Total	2.18	2.26	mg/L	96.5	90.0 - 110	126186260
Nitrate-Nitrogen Total	2.19	2.26	mg/L	96.9	90.0 - 110	126186272

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1112949	5.71	5.72	5.00	88.0 - 115	114	114	mg/L	0.175	20.0
Nitrate-Nitrogen Total	1112949	1.18	1.19	1.13	88.0 - 116	104	105	mg/L	0.844	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride	2286603	247	251	ND	200	80.0 - 120	124 *	126 *	mg/L	1.61	20.0
Nitrate-Nitrogen Total	2286603	73.2	73.8	21.6	45.2	80.0 - 120	114	115	mg/L	1.16	20.0
Fluoride	2286723	61.6	56.2	ND	50.0	80.0 - 120	123 *	112	mg/L	9.17	20.0
Nitrate-Nitrogen Total	2286723	13.1	11.8	ND	11.3	80.0 - 120	116	104	mg/L	10.4	20.0

Analytical Set 1114084 — EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfate	1114084	ND	0.254	0.300	mg/L	126210968

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfate	1114084	-0.029	0.254	0.300	mg/L	126210964
Sulfate	1114084	0.060	0.254	0.300	mg/L	126210984
Sulfate	1114084	-0.019	0.254	0.300	mg/L	126210996

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Sulfate	10.8	10.0	mg/L	108	90.0 - 110	126210963
Sulfate	11.0	10.0	mg/L	110	90.0 - 110	126210983
Sulfate	10.6	10.0	mg/L	106	90.0 - 110	126210995

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfate	1114084	5.54	5.54	5.00	85.0 - 115	111	111	mg/L	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfate	2287159	121	120	94.3	20.0	80.0 - 120	134 *	128 *	mg/L	3.82	20.0
Sulfate	2287244	957	949	866	100	80.0 - 120	91.0	83.0	mg/L	9.20	20.0

Analytical Set 1114453 — EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1114453	0.112	0.0298	0.300	mg/L	126220562

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1114453	0	0.0298	0.300	mg/L	126220558
Chloride	1114453	0	0.0298	0.300	mg/L	126220578
Chloride	1114453	0	0.0298	0.300	mg/L	126220590

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	10.2	10.0	mg/L	102	90.0 - 110	126220557
Chloride	10.1	10.0	mg/L	101	90.0 - 110	126220577
Chloride	10.2	10.0	mg/L	102	90.0 - 110	126220589

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	1114453	4.98	4.99	5.00	85.0 - 115	99.6	99.8	mg/L	0.201	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2288340	498	296	209	100	80.0 - 120	289 *	87.0	mg/L	107 *	20.0
Chloride	2288717	251	251	161	100	80.0 - 120	90.0	90.0	mg/L	0	20.0

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Analytical Set 1113107 — EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Boron	1112958	ND	0.00103	0.008	mg/L	126189576
Phosphorus	1112958	ND	0.0353	0.040	mg/L	126189576

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	1.04	1.00	mg/L	104	90.0 - 110	126189574
Boron	1.04	1.00	mg/L	104	90.0 - 110	126189575
Boron	1.04	1.00	mg/L	104	90.0 - 110	126189585
Phosphorus	1.05	1.00	mg/L	105	90.0 - 110	126189574
Phosphorus	1.05	1.00	mg/L	105	90.0 - 110	126189575
Phosphorus	1.04	1.00	mg/L	104	90.0 - 110	126189585

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	10.4	10.0	mg/L	104	95.0 - 105	126189572
Phosphorus	25.4	25.0	mg/L	102	95.0 - 105	126189572

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	1.05	1.00	mg/L	105	90.0 - 110	126189573
Phosphorus	1.06	1.00	mg/L	106	90.0 - 110	126189573

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Boron	1112958	1.02	1.01	1.00	85.0 - 115	102	101	mg/L	0.985	25.0
Phosphorus	1112958	4.18	4.17	4.00	85.0 - 115	104	104	mg/L	0.240	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Boron	2287355	1.04	1.04	0.00294	1.00	75.0 - 125	104	104	mg/L	0	25.0
Phosphorus	2287355	4.66	4.65	0.509	4.00	75.0 - 125	104	104	mg/L	0.241	25.0

Analytical Set 1113171 — EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Dissolved Calcium	1113006	ND	0.0156	0.500	mg/L	126191185
Dissolved Magnesium	1113006	ND	0.00367	0.500	mg/L	126191185
Dissolved Sodium	1113006	ND	0.0139	0.500	mg/L	126191185

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Dissolved Calcium	25.7	25.0	mg/L	103	90.0 - 110	126191178
Dissolved Calcium	25.8	25.0	mg/L	103	90.0 - 110	126191186
Dissolved Calcium	25.7	25.0	mg/L	103	90.0 - 110	126191195
Dissolved Magnesium	25.8	25.0	mg/L	103	90.0 - 110	126191178

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Dissolved Magnesium	25.9	25.0	mg/L	104	90.0 - 110	126191186
Dissolved Magnesium	25.9	25.0	mg/L	104	90.0 - 110	126191195
Dissolved Sodium	25.4	25.0	mg/L	102	90.0 - 110	126191178
Dissolved Sodium	25.7	25.0	mg/L	103	90.0 - 110	126191186
Dissolved Sodium	25.5	25.0	mg/L	102	90.0 - 110	126191195

Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Dissolved Magnesium	2287237	11.5	11.6	7.16	5.00	75.0 - 125	86.8	88.8	mg/L	0.866	20.0

Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units	
Dissolved Magnesium	2287237	11.5	7.16	5.00	75.0 - 125	86.8	mg/L	20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Dissolved Calcium	48.8	50.0	mg/L	97.6	95.0 - 105	126191172
Dissolved Magnesium	49.0	50.0	mg/L	98.0	95.0 - 105	126191172
Dissolved Sodium	50.3	50.0	mg/L	101	95.0 - 105	126191172

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Dissolved Calcium	24.5	25.0	mg/L	98.0	90.0 - 110	126191176
Dissolved Magnesium	24.8	25.0	mg/L	99.2	90.0 - 110	126191176
Dissolved Sodium	24.1	25.0	mg/L	96.4	90.0 - 110	126191176

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Dissolved Calcium	2287244	9.61	9.48	11.1	5.00	75.0 - 125	-29.8 *	-32.4 *	mg/L	1.36	20.0
Dissolved Magnesium	2287244	14.2	14.2	16.5	5.00	75.0 - 125	-46.0 *	-46.0 *	mg/L	0	20.0
Dissolved Sodium	2287244	554	546	661	5.00	75.0 - 125	-2140 *	-2300 *	mg/L	1.45	20.0

Analytical Set 1113266 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1112958	ND	0.00025	0.0005	mg/L	126193426
Barium, Total	1112958	ND	0.000348	0.002	mg/L	126193426
Beryllium, Total	1112958	ND	0.0000605	0.0005	mg/L	126193426
Cadmium, Total	1112958	ND	0.000095	0.0005	mg/L	126193426
Copper, Total	1112958	ND	0.0005	0.001	mg/L	126193426
Lead, Total	1112958	ND	0.00025	0.0005	mg/L	126193426
Nickel, Total	1112958	ND	0.0005	0.001	mg/L	126193426
Selenium, Total	1112958	0.00211	0.000728	0.002	mg/L	126193426
Silver, Total	1112958	0.0000977	0.0000628	0.0002	mg/L	126193426
Zinc, Total	1112958	ND	0.0025	0.005	mg/L	126193426

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	126193432
Arsenic, Total	0.0507	0.05	mg/L	101	90.0 - 110	126193438
Arsenic, Total	0.0506	0.05	mg/L	101	90.0 - 110	126193447
Arsenic, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	126193457
Arsenic, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126193464
Barium, Total	0.048	0.05	mg/L	96.0	90.0 - 110	126193432
Barium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	126193438
Barium, Total	0.0484	0.05	mg/L	96.8	90.0 - 110	126193447
Barium, Total	0.0511	0.05	mg/L	102	90.0 - 110	126193457
Barium, Total	0.0504	0.05	mg/L	101	90.0 - 110	126193464
Beryllium, Total	0.0453	0.05	mg/L	90.6	90.0 - 110	126193432
Beryllium, Total	0.0551	0.05	mg/L	110	90.0 - 110	126193438
Beryllium, Total	0.0543	0.05	mg/L	109	90.0 - 110	126193457
Beryllium, Total	0.0528	0.05	mg/L	106	90.0 - 110	126193464
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	126193432
Cadmium, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	126193438
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126193447
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126193457
Cadmium, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126193464
Copper, Total	0.0484	0.05	mg/L	96.8	90.0 - 110	126193432
Copper, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	126193438
Copper, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126193447
Copper, Total	0.0475	0.05	mg/L	95.0	90.0 - 110	126193457
Copper, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126193464
Lead, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	126193432
Lead, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	126193438
Lead, Total	0.0458	0.05	mg/L	91.6	90.0 - 110	126193447
Lead, Total	0.046	0.05	mg/L	92.0	90.0 - 110	126193457
Lead, Total	0.0452	0.05	mg/L	90.4	90.0 - 110	126193464
Nickel, Total	0.047	0.05	mg/L	94.0	90.0 - 110	126193432
Nickel, Total	0.0507	0.05	mg/L	101	90.0 - 110	126193438
Nickel, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	126193447
Nickel, Total	0.0517	0.05	mg/L	103	90.0 - 110	126193457
Nickel, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126193464
Selenium, Total	0.0504	0.05	mg/L	101	90.0 - 110	126193416
Selenium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126193424
Selenium, Total	0.0519	0.05	mg/L	104	90.0 - 110	126193432
Selenium, Total	0.0523	0.05	mg/L	105	90.0 - 110	126193438
Selenium, Total	0.0509	0.05	mg/L	102	90.0 - 110	126193447
Selenium, Total	0.0521	0.05	mg/L	104	90.0 - 110	126193457
Selenium, Total	0.0526	0.05	mg/L	105	90.0 - 110	126193464
Silver, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126193407
Silver, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	126193416
Silver, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126193424
Silver, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	126193432

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0504	0.05	mg/L	101	90.0 - 110	126193438
Silver, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126193447
Silver, Total	0.0501	0.05	mg/L	100	90.0 - 110	126193457
Silver, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	126193464
Zinc, Total	0.0509	0.05	mg/L	102	90.0 - 110	126193432
Zinc, Total	0.0526	0.05	mg/L	105	90.0 - 110	126193438
Zinc, Total	0.0511	0.05	mg/L	102	90.0 - 110	126193447
Zinc, Total	0.0552	0.05	mg/L	110	90.0 - 110	126193457
Zinc, Total	0.0501	0.05	mg/L	100	90.0 - 110	126193464

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126193381
Barium, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126193381
Beryllium, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	126193381
Cadmium, Total	0.0486	0.05	mg/L	97.2	90.0 - 110	126193381
Copper, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126193381
Lead, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	126193381
Nickel, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	126193381
Selenium, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126193381
Silver, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	126193381
Zinc, Total	0.0501	0.05	mg/L	100	90.0 - 110	126193381

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1112958	0.508	0.500	0.500	85.0 - 115	102	100	mg/L	1.59	20.0
Barium, Total	1112958	0.511	0.497	0.500	85.0 - 115	102	99.4	mg/L	2.78	20.0
Beryllium, Total	1112958	0.192	0.195	0.200	85.0 - 115	96.0	97.5	mg/L	1.55	20.0
Cadmium, Total	1112958	0.258	0.250	0.250	85.0 - 115	103	100	mg/L	3.15	20.0
Copper, Total	1112958	0.517	0.504	0.500	85.0 - 115	103	101	mg/L	2.55	20.0
Lead, Total	1112958	0.557	0.546	0.500	85.0 - 115	111	109	mg/L	1.99	20.0
Nickel, Total	1112958	0.493	0.479	0.500	85.0 - 115	98.6	95.8	mg/L	2.88	20.0
Selenium, Total	1112958	0.508	0.495	0.500	85.0 - 115	102	99.0	mg/L	2.59	20.0
Silver, Total	1112958	0.098	0.097	0.100	85.0 - 115	98.0	97.0	mg/L	1.03	20.0
Zinc, Total	1112958	0.529	0.512	0.500	85.0 - 115	106	102	mg/L	3.27	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	ND	0.001	mg/L	0	25.0 - 175	126193382
Lead, Total	0.000871	0.001	mg/L	87.1	25.0 - 175	126193382

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2286311	0.509	0.508	0.00218	0.500	70.0 - 130	101	101	mg/L	0.198	20.0
Barium, Total	2286311	0.548	0.561	0.056	0.500	70.0 - 130	98.4	101	mg/L	2.61	20.0
Beryllium, Total	2286311	0.214	0.201	0.00027	0.200	70.0 - 130	107	100	mg/L	6.27	20.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Cadmium, Total	2286311	0.250	0.256	0.000185	0.250	70.0 - 130	99.9	102	mg/L	2.37	20.0
Copper, Total	2286311	0.544	0.541	0.0279	0.500	70.0 - 130	103	103	mg/L	0.583	20.0
Lead, Total	2286311	0.535	0.552	0.00182	0.500	70.0 - 130	107	110	mg/L	3.14	20.0
Nickel, Total	2286311	0.481	0.488	0.00947	0.500	70.0 - 130	94.3	95.7	mg/L	1.47	20.0
Selenium, Total	2286311	0.503	0.501	0.00379	0.500	70.0 - 130	99.8	99.4	mg/L	0.401	20.0
Silver, Total	2286311	0.0963	0.0982	0.000246	0.100	70.0 - 130	96.1	98.0	mg/L	1.96	20.0
Zinc, Total	2286311	0.572	0.594	0.0649	0.500	70.0 - 130	101	106	mg/L	4.25	20.0

Analytical Set 1113429 — SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1113429	ND	0.550	3.00	ug/L	126197095
Hexavalent Chromium	1113429	ND	0.550	3.00	ug/L	126197104

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	76.6	80.0	ug/L	95.8	90.0 - 110	126197096
Hexavalent Chromium	77.6	80.0	ug/L	97.0	90.0 - 110	126197105

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1113429	79.4	76.6	80.0	85.0 - 115	99.2	95.8	ug/L	3.59	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2288110	72.4	71.6	ND	80.0	70.0 - 130	90.5	89.5	ug/L	1.11	20.0

Analytical Set 1113662 — EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	5.90	5.00	ng/L	118	70.0 - 130	126200982

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1113334	ND	1.20	5.00	ng/L	126200983

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1113334	1.58	1.20	5.00	ng/L	126200994
Mercury, Total (low level)	1113334	1.58	1.20	5.00	ng/L	126201006
Mercury, Total (low level)	1113662	1.61	1.20	5.00	ng/L	126201025

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	25.3	25.0	ng/L	101	87.0 - 113	126200993
Mercury, Total (low level)	25.0	25.0	ng/L	100	87.0 - 113	126201005
Mercury, Total (low level)	25.4	25.0	ng/L	102	87.0 - 113	126201014

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	25.8	25.0	ng/L	103	87.0 - 113	126201024

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	ND	50.0	ng/L	0	90.0 - 110	126200980

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	23.9	25.0	ng/L	95.6	90.0 - 110	126200981

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1113334	21.8	22.3	25.0	76.0 - 115	87.2	89.2	ng/L	2.27	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2286838	20.3	23.1	2.69	26.6	63.0 - 111	66.2	76.7	ng/L	14.7	18.0
Mercury, Total (low level)	2286949	22.9	32.5	4.23	26.6	63.0 - 111	70.2	106	ng/L	40.9 *	18.0

Analytical Set 1113758 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1112958	ND	0.000392	0.001	mg/L	126203631

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	126203610
Chromium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126203619
Chromium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126203620
Chromium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	126203629
Chromium, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	126203630
Chromium, Total	0.0516	0.05	mg/L	103	90.0 - 110	126203638
Chromium, Total	0.0521	0.05	mg/L	104	90.0 - 110	126203639
Chromium, Total	0.0522	0.05	mg/L	104	90.0 - 110	126203647
Chromium, Total	0.0518	0.05	mg/L	104	90.0 - 110	126203648
Chromium, Total	0.0512	0.05	mg/L	102	90.0 - 110	126203659
Chromium, Total	0.0512	0.05	mg/L	102	90.0 - 110	126203660
Chromium, Total	0.0513	0.05	mg/L	103	90.0 - 110	126203670
Chromium, Total	0.0508	0.05	mg/L	102	90.0 - 110	126203701
Chromium, Total	0.0508	0.05	mg/L	102	90.0 - 110	126203702
Chromium, Total	0.0516	0.05	mg/L	103	90.0 - 110	126203713
Chromium, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	126203714
Chromium, Total	0.0515	0.05	mg/L	103	90.0 - 110	126203725
Chromium, Total	0.0512	0.05	mg/L	102	90.0 - 110	126203726
Chromium, Total	0.0506	0.05	mg/L	101	90.0 - 110	126203735

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ICV

Parameter		Reading	Known	Units	Recover%	Limits%		File
Chromium, Total		0.0506	0.05	mg/L	101	90.0 - 110		126203603

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1112958	0.519	0.521		0.500	85.0 - 115	104	104	mg/L	0.385	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2286311	0.525	0.525	0.00577	0.500	70.0 - 130	104	104	mg/L	0	20.0

Analytical Set 1113775 — SM 5310 C-2014

AWRL/LOQ C

Parameter		Reading	Known	Units	Recover%	Limits%		File
Total Organic Carbon		2.07	2.00	mg/L	104	50.0 - 150		126204424

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Total Organic Carbon	1113775	0.0922	0.0618	0.500	mg/L		126204423
Total Organic Carbon	1113775	0.0672	0.0618	0.500	mg/L		126204428
Total Organic Carbon	1113775	0.114	0.0618	0.500	mg/L		126204452
Total Organic Carbon	1113775	ND	0.0618	0.500	mg/L		126204476

CCV

Parameter		Reading	Known	Units	Recover%	Limits%		File
Total Organic Carbon		10.7	10.0	mg/L	107	90.0 - 110		126204420
Total Organic Carbon		10.4	10.0	mg/L	104	90.0 - 110		126204426
Total Organic Carbon		10.1	10.0	mg/L	101	90.0 - 110		126204440
Total Organic Carbon		9.98	10.0	mg/L	99.8	90.0 - 110		126204451
Total Organic Carbon		10.1	10.0	mg/L	101	90.0 - 110		126204464
Total Organic Carbon		10.0	10.0	mg/L	100	90.0 - 110		126204475

ICL

Parameter		Reading	Known	Units	Recover%	Limits%		File
Total Organic Carbon		21.1	20.0	mg/L	106	90.0 - 110		126204419
Total Organic Carbon		20.4	20.0	mg/L	102	90.0 - 110		126204425

ICV

Parameter		Reading	Known	Units	Recover%	Limits%		File
Total Organic Carbon		10.8	10.0	mg/L	108	90.0 - 110		126204421
Total Organic Carbon		10.4	10.0	mg/L	104	90.0 - 110		126204427

LCS

Parameter	PrepSet	Reading		Known	Units	Recover%	Limits	File
Total Organic Carbon	1113775	5.51		5.00	mg/L	110	85.0 - 115	126204422
Total Organic Carbon	1113775	5.32		5.00	mg/L	106	85.0 - 115	126204429
Total Organic Carbon	1113775	5.29		5.00	mg/L	106	85.0 - 115	126204453
Total Organic Carbon	1113775	5.29		5.00	mg/L	106	85.0 - 115	126204477

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Total Organic Carbon	2287155	16.4	16.2	5.22	10.0	85.0 - 115	112	110	mg/L	1.81	20.0
Total Organic Carbon	2287253	14.4	13.3	2.88	10.0	85.0 - 115	115	104	mg/L	10.0	20.0
Total Organic Carbon	2287297	17.2	16.6	5.94	10.0	85.0 - 115	113	107	mg/L	5.47	20.0
Total Organic Carbon	2287300	16.3	16.2	5.20	10.0	85.0 - 115	111	110	mg/L	0.905	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%		File
Total Organic Carbon		50.8	50.0	mg/L	102	90.0 - 110		126204418

Analytical Set 1113991 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Aluminum, Total	1112958	ND	0.0039	0.005	mg/L		126208796
Antimony, Total	1112958	ND	0.000847	0.003	mg/L		126208796
Selenium, Total	1112958	ND	0.00294	0.005	mg/L		126208796
Zinc, Total	1112958	0.00145	0.000844	0.001	mg/L	*	126208796

CCV

Parameter		Reading	Known	Units	Recover%	Limits%		File
Aluminum, Total		0.0478	0.05	mg/L	95.6	90.0 - 110		126208763
Aluminum, Total		0.0507	0.05	mg/L	101	90.0 - 110		126208767
Aluminum, Total		0.0497	0.05	mg/L	99.4	90.0 - 110		126208771
Aluminum, Total		0.0501	0.05	mg/L	100	90.0 - 110		126208778
Aluminum, Total		0.0504	0.05	mg/L	101	90.0 - 110		126208784
Aluminum, Total		0.0488	0.05	mg/L	97.6	90.0 - 110		126208793
Aluminum, Total		0.0511	0.05	mg/L	102	90.0 - 110		126208802
Aluminum, Total		0.0506	0.05	mg/L	101	90.0 - 110		126208808
Aluminum, Total		0.0495	0.05	mg/L	99.0	90.0 - 110		126208816
Aluminum, Total		0.0494	0.05	mg/L	98.8	90.0 - 110		126208825
Aluminum, Total		0.050	0.05	mg/L	100	90.0 - 110		126208833
Aluminum, Total		0.0489	0.05	mg/L	97.8	90.0 - 110		126208840
Aluminum, Total		0.0496	0.05	mg/L	99.2	90.0 - 110		126208847
Aluminum, Total		0.051	0.05	mg/L	102	90.0 - 110		126208852
Antimony, Total		0.0454	0.05	mg/L	90.8	90.0 - 110		126208801
Antimony, Total		0.0455	0.05	mg/L	91.0	90.0 - 110		126208802
Antimony, Total		0.0452	0.05	mg/L	90.4	90.0 - 110		126208808
Antimony, Total		0.0459	0.05	mg/L	91.8	90.0 - 110		126208825
Antimony, Total		0.0456	0.05	mg/L	91.2	90.0 - 110		126208833

ICV

Parameter		Reading	Known	Units	Recover%	Limits%		File
Aluminum, Total		0.0477	0.05	mg/L	95.4	90.0 - 110		126208758
Antimony, Total		0.0481	0.05	mg/L	96.2	90.0 - 110		126208758

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1112958	0.491	0.494		0.500	85.0 - 115	98.2	98.8	mg/L	0.609	20.0
Antimony, Total	1112958	0.473	0.474		0.500	85.0 - 115	94.6	94.8	mg/L	0.211	20.0
Selenium, Total	1112958	0.470	0.477		0.500	85.0 - 115	94.0	95.4	mg/L	1.48	20.0
Zinc, Total	1112958	0.513	0.517		0.500	85.0 - 115	103	103	mg/L	0.777	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	2286311	1.88	1.88	1.86	0.500	70.0 - 130	4.00 *	4.00 *	mg/L	0	20.0
Antimony, Total	2286311	0.471	0.465	ND	0.500	70.0 - 130	94.2	93.0	mg/L	1.28	20.0
Zinc, Total	2286311	0.550	0.551	0.0615	0.500	70.0 - 130	97.7	97.9	mg/L	0.204	20.0

Analytical Set 1114791 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Thallium, Total	1114410	ND	0.000106	0.001	mg/L	126227131

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	126227133
Thallium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126227139

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Thallium, Total	0.0501	0.05	mg/L	100	90.0 - 110	126227118

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Thallium, Total	1114410	0.517	0.539		0.500	85.0 - 115	103	108	mg/L	4.17	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Thallium, Total	2290174	0.528	0.520	ND	0.500	70.0 - 130	106	104	mg/L	1.53	20.0

Analytical Set 1113035 — SM 4500-Cl F-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cl2 Residual,Total(Lab)Titration	1113035	ND	0.100	0.100	mg/L	126187656

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cl2 Residual,Total(Lab)Titration	2287244	ND	ND	mg/L		20.0

Analytical Set 1113180 — SM 4500-H+ B-2011

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Laboratory pH	2287225	7.80	7.80	SU	0	20.0

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Laboratory pH	2287331	5.70	5.70	SU	0	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Laboratory pH	1113180	6.96	7.00	SU	99.4	90.0 - 110	126191355
Laboratory pH	1113180	3.97	4.00	SU	99.2	90.0 - 110	126191356
Laboratory pH	1113180	9.99	10.0	SU	99.9	90.0 - 110	126191357
Laboratory pH	1113180	5.96	6.00	SU	99.3	90.0 - 110	126191358
Laboratory pH	1113180	7.92	8.00	SU	99.0	90.0 - 110	126191359
Laboratory pH	1113180	6.00	6.00	SU	100	90.0 - 110	126191371
Laboratory pH	1113180	7.91	8.00	SU	98.9	90.0 - 110	126191372
Laboratory pH	1113180	5.99	6.00	SU	99.8	90.0 - 110	126191384
Laboratory pH	1113180	7.91	8.00	SU	98.9	90.0 - 110	126191385

Analytical Set 1113374 — SM 2510 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1113374	0.858			umhos/cm	126196160

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2287244	30100	29900	umhos/cm	0.667	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	13400	12900	umhos/cm	104	90.0 - 110	126196163

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1113374	1410	1410	umhos/cm	100	90.0 - 110	126196161
Lab Spec. Conductance at 25 C	1113374	100	100	umhos/cm	100	90.0 - 110	126196162
Lab Spec. Conductance at 25 C	1113374	1410	1410	umhos/cm	100	90.0 - 110	126196166

Analytical Set 1113448 — SM 5220 D-2011

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chemical Oxygen Demand	367	400	mg/L	91.8	90.0 - 110	126197332

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Chemical Oxygen Demand	2286456	24.5	24.5	mg/L	0	20.0
Chemical Oxygen Demand	2287373	252	248	mg/L	1.60	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Chemical Oxygen Demand	1113448	187	200	mg/L	93.5	90.0 - 110	126197333

QUALITY CONTROL

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Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Chemical Oxygen Demand	2286456	220	24.5	220	mg/L	88.9	80.0 - 120	126197336
Chemical Oxygen Demand	2287373	501	248	220	mg/L	115	80.0 - 120	126197348

Analytical Set 1116729 — SM 2320 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1116729	ND	1.00	1.00	mg/L	126278304

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	25.5	25.0	mg/L	102	90.0 - 110	126278303
Total Alkalinity (as CaCO3)	26.0	25.0	mg/L	104	90.0 - 110	126278317
Total Alkalinity (as CaCO3)	25.5	25.0	mg/L	102	90.0 - 110	126278330

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2292961	353	354	mg/L	0.283	20.0
Total Alkalinity (as CaCO3)	2293620	335	335	mg/L	0	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	25.5	25.0	mg/L	102	90.0 - 110	126278302

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Alkalinity (as CaCO3)	2292961	381	354	25.0	mg/L	108	70.0 - 130	126278307
Total Alkalinity (as CaCO3)	2293620	358	335	25.0	mg/L	92.0	70.0 - 130	126278320

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

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; ICV - Initial Calibration Verification; LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.);MRL Check - Minimum Reporting Limit Check Std; MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

Email: Kilgore.ProjectManagement@spllabs.com

1100579 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

CHAIN OF CUSTODY

Printed 04/01/2024 Page 1 of 4

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

ENAD-P-4
128

Lab Number 2287244
PO Number
Phone 325/356-7202

Seaboard-Perryton Feedmill

Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start
Date: 4-3-24 Time: 11:00 AM
Sampler Printed Name: Tony Sorell
Sampler Affiliation: EnviroAg Engineering
Sampler Signature:

☐ Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard?

1	On Site Testing				
NELAC	Short Hold	Cr6F	Hex Cr, Field Preservation	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)	

Hex Cr, Field Preservation
Collected By Client Date 4-3-24 Time 11:00 Analyzed By DWC Date 4-3-24 Time 16:18

1	Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized				
NELAC	Short Hold	FMPL	Fecal Coliform MPN Started /L	SM 9221 E-2014 (A1) (0.347 days)	
1	H2SO4 to pH <2 GlQt w/Tef-lined lid				
NELAC		HEM	Oil and Grease (HEM)	EPA 1664B (HEM) (28.0 days)	
1	Polyethylene 1/2 gal (White)				
NELAC	Short Hold	BOD	Biochemical Oxygen Demand (BOD5)	SM 5210 B-2016 CAS:1026-3 (2.04 days)	
NELAC		TSS	Total Suspended Solids	SM 2540 D-2015 (7.00 days)	
0	Z -- No bottle required				
NELAC	Short Hold	Cr+3	Trivalent Chromium	Calculation CAS:16065-83-1 (1.00 days)	

Panhandle Region: 6501 Storage Dr Amarillo TX 79110

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Office: 903-984-0551 * Fax: 903-984-5914

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CHAIN OF CUSTODY

Printed 04/01/2024 Page 2 of 4

EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

ENAD-P-4 128

Phone 325/356-7202

1 HNO3 to pH <2 Polyethylene 500 mL for Metals

NELAC		*AgM	Silver, Total	EPA 200.8 5.4 CAS:7440-22-4 (180 days)
NELAC		*AlM	Aluminum, Total	EPA 200.8 5.4 CAS:7429-90-5 (180 days)
NELAC		*AsM	Arsenic, Total	EPA 200.8 5.4 CAS:7440-38-2 (180 days)
NELAC		*BaM	Barium, Total	EPA 200.8 5.4 CAS:7440-39-3 (180 days)
NELAC		*BeM	Beryllium, Total	EPA 200.8 5.4 CAS:7440-41-7 (180 days)
NELAC		*BI	Boron	EPA 200.7 4.4 CAS:7440-42-8 (180 days)
NELAC		*CdM	Cadmium, Total	EPA 200.8 5.4 CAS:7440-43-9 (180 days)
NELAC		*CrM	Chromium, Total	EPA 200.8 5.4 CAS:7440-47-3 (180 days)
NELAC		*CuM	Copper, Total	EPA 200.8 5.4 CAS:7440-50-8 (180 days)
NELAC		*NiM	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)
NELAC		*PbM	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)
NELAC		*PI	Phosphorus	EPA 200.7 4.4 CAS:7723-14-0 (180 days)
NELAC		*SbM	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)
NELAC		*SeM	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)
NELAC		*TlM	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
NELAC		*ZnM	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
		301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)

1 HNO3 to pH <2 Polyethylene 250 mL/AFTER filtration

NELAC	Short Hold	*CaD	Dissolved Calcium	EPA 200.7, Rev. 4.4 CAS:7440-70-2 (0.0104 days)
NELAC	Short Hold	*MgD	Dissolved Magnesium	EPA 200.7, Rev. 4.4 CAS:7439-95-4 (0.0104 days)
NELAC	Short Hold	*NaD	Dissolved Sodium	EPA 200.7, Rev. 4.4 CAS:7440-23-5 (0.0104 days)

2 H2SO4 to pH <2 250 ml Polyethylene

NELAC		COD	Chemical Oxygen Demand	SM 5220 D-2011 (28.0 days)

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CHAIN OF CUSTODY

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EnviroAg Engineering
Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

ENAD-P-4 128

Phone 325/356-7202

NELAC		NHaN	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
		OrgN	Nitrogen, Total Organic (as N)	EPA 351.2 minus EPA 350.1 (28.0 days)
NELAC		TKN	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)

1 H2SO4 to pH <2 Glass 250 mLw/Teflon lined lid

NELAC		TOCL	Total Organic Carbon	SM 5310 C-2014(28.0 days)

1 Glass /clean metals w/HCl

NELAC		*Hgl	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC		245l	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

1 Polyethylene 1/2 gal (White)

NELAC	Short Hold	BODc	BOD Carbonaceous	SM 5210 B-2011 (TCMP inhibitor)(2.00 days)
	Short Hold	SARL	Sodium Adsorption Ratio - Liquid	600/2-78-054 32.19 (0.0 04 days)

1 NaOH to pH >12 Polyethylene 250 mL/amber

NELAC		CNa	Cyanide, total	SM 4500-CN⁻ E-2016 (14.0 days)

1 Polyethylene Quart

NELAC		ICIL	Chloride	EPA 300.0 2.1 (28.0 days)
NELAC		IFIL	Fluoride	EPA 300.0 2.1 (28.0 days)
NELAC	Short Hold	IN3L	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)
NELAC		IS4L	Sulfate	EPA 300.0 2.1 (28.0 days)
NELAC	Short Hold	Cl2L	Cl2 Residual,Total(Lab)Titration	SM 4500-Cl F-2011 (2.00 days)
NELAC		CONL	Lab Spec. Conductance at 25 C	SM 2510 B-2011 (28.0 days)
NELAC	Short Hold	Cr+6	Hexavalent Chromium	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)
	Short Hold	DMFW	Dissolved (Wastewater) Filtering	SM 3030 B-2044 (0.0104 days)

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Marsha Shoemaker
3404 Airway Blvd
Amarillo, TX 79118

ENAD-P-4
128

Phone 325/356-7202

~~Dissolved (Wastewater) Filtering~~

~~Collected By ________ Date ________ Time ________ Analyzed By ________ Date ________ Time ________~~

Filter in Lab

NELAC	pHLL	Laboratory pH	SM 4500-H+ B-2011
NELAC	TDS	Total Dissolved Solids	SM 2540 C-2015 (7.00 days)

1 DMF Filter + Syringe

DMF2	Dissolved Metals Filter (Field)	SM 3030 B-2004

Ambient Conditions/Comments

Date Time	Relinquished		Date Time	Received	
4/3/24 2:33	Printed Name: Tony Jnell	Affiliation: EnviroAg Engineering	4-3-24 14:33	Printed Name: Derek Craig	Affiliation: SPL
	Signature:			Signature:	
4-3-24 1800	Printed Name: Derek Craig	Affiliation: SPL	4-3-24 1800	Printed Name: FedEx	Affiliation:
	Signature:			Signature:	
4-4-24 1020	Printed Name: FedEx	Affiliation:		Printed Name: Rayshawn Thompson SPL, Inc.	Affiliation:
	Signature:			Signature:	
	Printed Name:	Affiliation:		Printed Name:	Affiliation:
	Signature:			Signature:	

Sample Received on Ice? ☑ Yes ☐ No
Cooler/Sample Secure? ☑ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

ORIGIN ID:AMAA (806) 336-0813
DEREK CRAIG
SPL-INC/PAN
6501 STORAGE DR

AMARILLO, TX 79110
UNITED STATES US

SHIP DATE: 03APR24
ACTWGT: 57.00 LB MAN
CAD: 0752751/CAFE3755

BILL SENDER

TO **KILGORE SPL LOG-IN**

2600 DUDLEY RD

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

585C4/5D80/AED7

FedEx Express

E

THU - 04 APR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7101 3443 7845**

AH GGGA

75662
TX-US SHV

2. Place label in shipping pouch and affix it to your shipment.

Date 4/04 Time 1032 Tech JLG
Temp: 0.8/0.9 C
Therm#: 6443 Corr Fact: 0.1 C

INDUSTRIAL TECHNICAL REPORT

Attachments

Prepared For:

Seaboard Foods LLC

Perryton Feedmill

12025 W State Hwy 15

Perryton, TX 79070

April 23, 2024

Prepared By:

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO - STEPHENVILLE - ARTESIA

3404 Airway Boulevard ♦ Amarillo, Texas 79118 ♦ Tel 806/353-6123 ♦ Fax 806/353-4132

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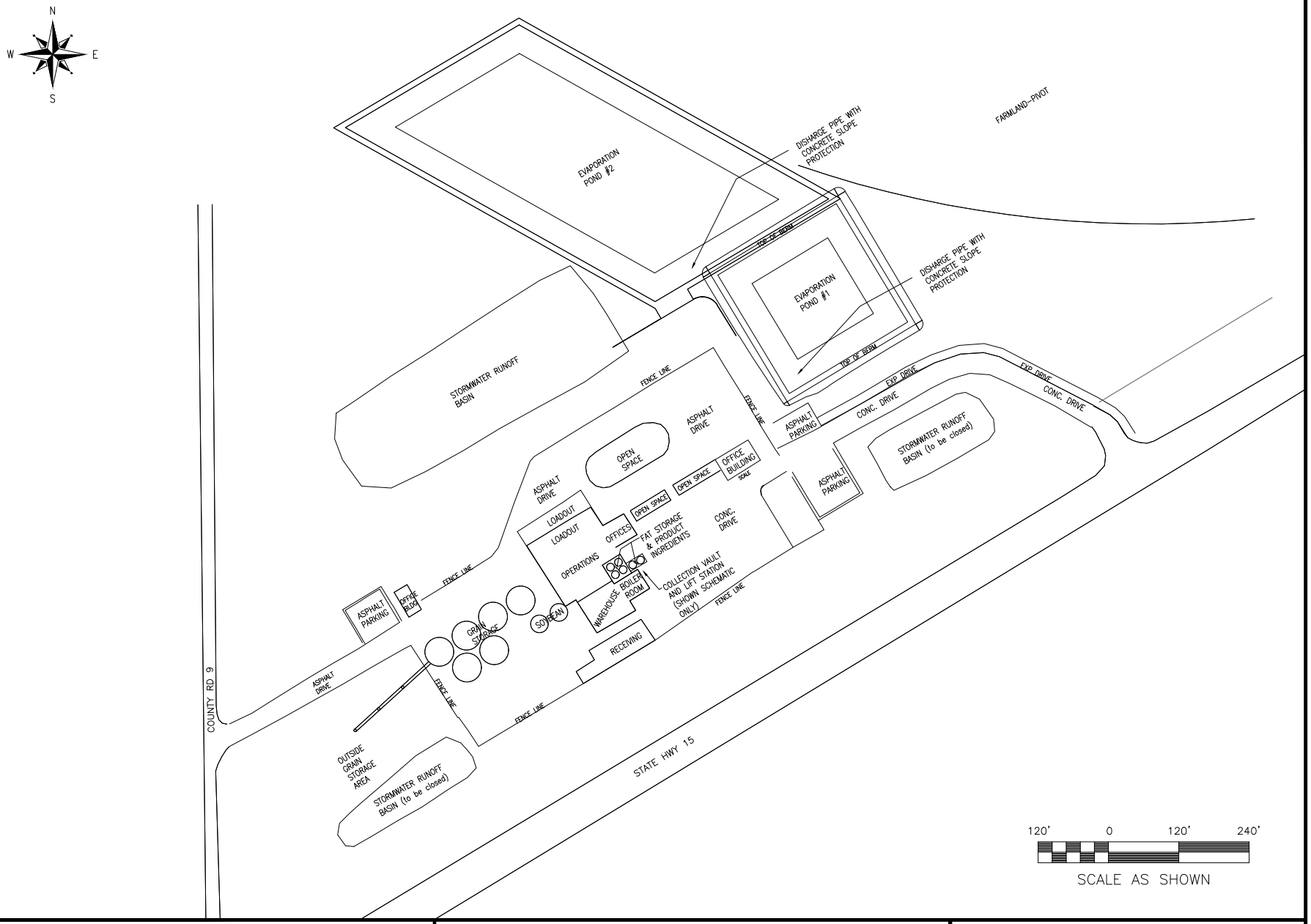
T.A: FACILITY MAP



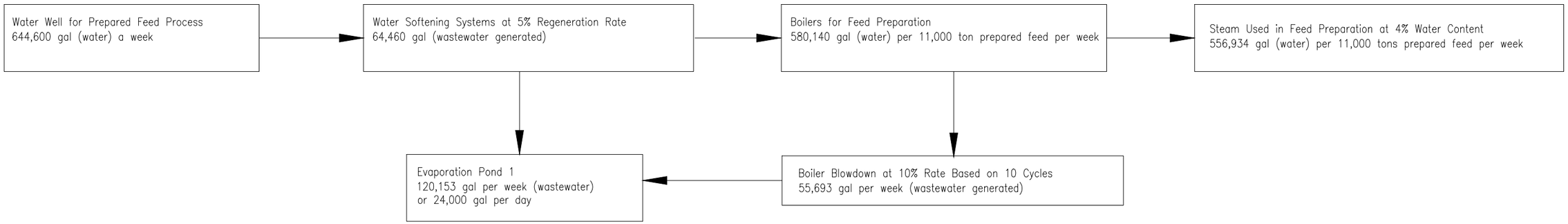
Seaboard Foods LLC Perryton Feedmill Perryton, Ochiltree County, TX	Facility Map Figure A-1 Date: Apr 2024	ENVIRO-AG EAE ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

T.B: TREATMENT SYSTEM

The existing treatment system is described in the attached design report. No changes to the treatment system are proposed as part of this renewal.

Figure B-1 is a schematic diagram of the water and wastewater flows.

Seaboard Foods LLC – Perryton Feedmill – Wastewater Generation Water Balance & Process Flow Diagram



Prepared Feed per Week (tons)	Water Usage per Week (gallons)	Steam Used in Feed per Week (gallons)	Boiler Blowdown per Week (gallons)	Water Softener Discharge per Week (gallons)	Total Discharge to Evap Ponds per Week (gallons)	Total (Design) Discharge to Evap Ponds (gallons per day)
11,000	644,600	556,934	55,693	64,460	120,153	24,000
		Total ~ 120,153				

Seaboard Foods LLC - Perryton Feedmill
Perryton
Ochiltree County, TX

Wastewater Process Flow Diagram
Figure B-1

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

T.C: WELL INFORMATION & GROUNDWATER REPORT

Figure C-1, Well Map is attached as required. There are no springs, seeps, faults or sinkholes onsite or within 500 feet of the property. The numbered wells correlate to the wells shown in the Well and Map Information Table. Available logs and/or plugging reports are included at the end of this section. No new wells have been drilled since the last TCEQ submittal. Data sources are discussed below.

North Plains Groundwater Conservation District Records

Numerous wells were identified by the district as being located on and within 1 mile of the property. Should an abandoned penetration be encountered anywhere on the property at any time, the penetration will be marked, reported to the district, inspected and properly sealed to avoid a potential impact to the underlying aquifer.

TWDB Water Information Integration & Dissemination (WIID)

The TWDB WIID online database was reviewed for artificial penetrations. The database revealed several water wells registered with the TWDB as being located on and around the subject property. Any WIID well found to be mapped incorrectly, either upon review of the well log, or by onsite visual inspection, is shown in the correct location in Figure C-1.

Railroad Commission Records

A search of the Railroad Commission (RRC) database files was performed. Numerous existing penetrations for oil and gas were identified on the subject properties. RRC database information is included as an attachment to this document. Per TCEQ Recharge Feature Guidance Document RG-433, oil and gas wells have protective measures in place required by the RRC and TCEQ Surface Casing Team. The oil and gas operator must cement the outer casing that will protect the fresh water above the hydrocarbon production interval. A map of the well locations is included in the supporting documentation.

USDA Natural Resource Conservation Service

The historical NRCS Soil Survey of Ochiltree County (1973) was reviewed for locations of wells and surface water features. No features are survey shows wells and several areas of Randall clay present on the subject properties.

Other Artificial Features

Other man-made features, such as stormwater detention basins and an existing evaporation wastewater pond, exist on the subject property. All evaporation ponds are or will be lined in accordance with TCEQ rules. This application is for total evaporation.

Current Landowner

A Seaboard Foods representative was contacted regarding the presence and status of any existing wells on the property. Based on a site inspection, the representative confirmed the locations of the active and known capped or plugged water wells.

On-Site Inspection

The property and off-site areas were inspected both on the ground and by historical mapping. Only those off-site areas visible from public right-of-way areas were reviewed during site reconnaissance. All visible water wells (irrigation, domestic/stock) were documented during the on-site inspection. No public water supply wells are located within 500 feet of the property boundary.

All well data listed in Table C-1 is based on information received from the water district, TCEQ and TWDB files, on-site inspection, and interviews of persons knowledgeable of the property. The well identification number corresponds to the map labels shown in Figure C-1, and the District/State ID corresponds to the number found on well logs, as applicable.

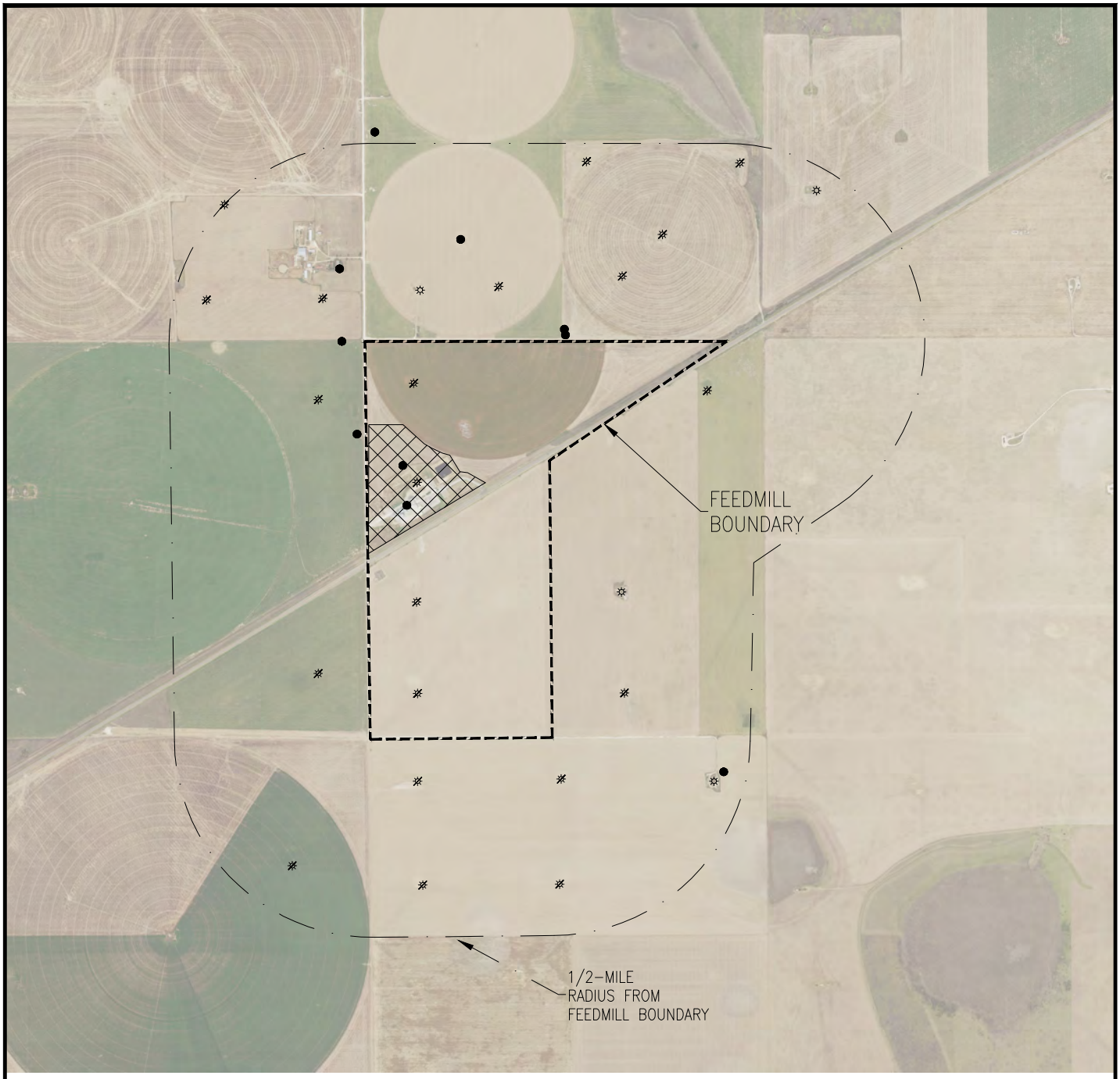
References

North Plains Groundwater Conservation District. Dumas, Texas, Interactive Map and Records Search, March & April 2024, from https://map.northplainsgcd.org/#

TCEQ and Texas Water Development Board, Files Search, April 2024.

Texas Water Development Board. Water Data Interactive, Retrieved April 2024, from https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer

USDA NRCS, Soil Survey of Ochiltree County, Texas, 1973.



LEGEND:

- Denotes Water Well
- Denotes Oil/Gas Well
- Denotes Plugged Oil/Gas Well
- Denotes Feedmill & Evaporation Ponds

N
W E
S

1000' 0 1000' 2000'

SCALE AS SHOWN

Source: USDA-NRCS. Geospatial Data Gateway. Available at: http://datagateway.nrcs.usda.gov/. 2020 National Ag. Imagery Program Mosiac – Accessed 11/2020.

Seaboard Foods LLC Perryton Feedmill Perryton, Ochiltree County, TX	Well Map Figure C-1 Date: Apr. 2024	ENVIRO-AG EAE ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

Table C-1: Water Well Information Table for Wells within 1/2-Mile of Applicant's Property Boundaries

Well ID	Well Use	Producing?	Open, Cased, or Plugged?	Proposed Best Management Practice
OC-1124	Industrial	In Use	Cased	
OC-3987	Domestic	Not in Use	Cased	to be Plugged
OC-0294	Irrigation	Appears to be in use	Cased	
-	Domestic	Appears to be in use	Unknown	
OC-0459	Livestock	Appears to be in use	Cased	
OC-6985	Irrigation	Appears to be in use	Cased	
OC-0816	Irrigation	Appears to be in use	Cased	
OC-11102	Irrigation	Appears to be in use	Cased	
OC-0860	Irrigation	NPWD notes to be plugged	Plugged	
OC-9973	Irrigation	Appears to be in use	Cased	
OC-1074	Irrigation	Appears to be in use	Cased	
OC-7826	Rig Supply	Appears to be in use	Unknown	

Note: Well ID numbers are taken from North Plains Groundwater Conservation District Data.

NORTH PLAINS GROUNDWATER Conservation District

North Plains GCD Map
NPWD Map-South
Created: April 23rd 2024, 5:28pm

3,000 ft

LRE WATER
CONNECTING WATER TO LIFE

NORTH PLAINS GROUNDWATER Conservation District

North Plains GCD Map
NPWD Map-North
Created: April 23rd 2024, 5:27pm

North Plains GCD Map
NPWD Map-North
Created: April 23rd 2024, 5:27pm

- Plugged
- Cancelled
- District Section Block Survey
- TWDB Groundwater Wells (Water Quality)
- Capped
- Registered
- TWDB Drillers Reports
- TWDB Plugging Reports

Dist. 2—Form No. 629 RLW

Original—District Office Copy District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1124
Date Received
Size of Well 8 in. Maximum Yield 400 GPM

1. Well Owner Texas Farms Feedmill Address #9 S.W. 11th Perryton, TX 79070
2. Well located _____ miles N, _____ miles S, _____ miles E, 6.5 miles W of the town of Perryton
3. County Ochiltree League _____
4. (NW¼) NE¼ SW¼ SE¼ (CIRCLE ONE) Section 23 Block 12 Survey H&GN
5. ACTUAL LOCATION OF THIS WELL IS { 737 measured yards from (N) or S section line. / 187 measured yards from E or (W) section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	16	Clay			
16	36	Sandy Clay / Clay			
36	62	Caliche			
62	209	Sand / Clay Streaks			
209	254	Clay / Sand Streaks			
254	344	Sand / Clay Streaks			
344	357	Clay / Sand Streaks			
357	413	Sand			
413	450	Sand / Clay Streaks			
450	480	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Phillip Howard Address Box 638 Beaver, OK 73932 Date Drilled 12-16-97 19__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" in. Total length 480 ft.
7. Casing perforations: from 360 ft to 480 ft. Size .032 Number per foot 230
8. Pump Column: Size 2½ in. Total length 378 ft. Suction pipe: Size ~ in. Length ~ ft.
9. Pump bowls: Size ~ Number of stages 13 Pump discharge pipe: Size _____ in.
10. Depth to water level 321 ft. Pump discharge 95 GPM. Pumping level: 345 ft.
11. Power Unit: (Electrical) Natural Gas, Butane, Other _____ Horsepower 15

Signature [signature] OWNER OR AGENT Driller & Partner TITLE Box 638 Beaver, OK 73932 ADDRESS

Final Completion of Well — Date 12-16-97, 19____.

NORTH PLAINS GROUNDWATER CONSERVATION DISTRICT
P.O. BOX 795 ~ 603 East 1st Dumas, TX. 79029
806-935-6401 Fax: 935-6633

For District Use Only

Permit # 15209
Well Permit # OC-3987
Permit Time 10:08 AM
Permit Date 02/17/2011
Permit Expiration 07/18/2011
Well Class DOM
Purpose Domestic

Water Well Construction Permit

(VALID FOR 150 DAYS)

NO NOTICE WILL BE GIVEN OF PENDING EXPIRATION

Owner Name TEXAS FARM LLC Phone (806) 434-1013
Owner Address 4200 S MAIN ST City PERRYTON ST TX ZIP 79070
Applicant _____ Phone _____
Applicant Address _____ City _____ ST _____ ZIP _____
Applicant is: _____

Permit Location: County Ochiltree Quarter NW/4 Section 23
Block 12 Survey H&GN Driller _____
Longitude -100.926863 Latitude 36.345570
Property Line Easement? No Well Status COMPLETE
Replacement well? No Status of well being replaced _____

I do hereby certify that I am the Property Owner or authorized by the Property Owner to make this Permit application and I affirm that the forgoing information in this application is true and correct. I agree that I must furnish the District all driller's logs and well reports as required by the Texas Department of Licensing and Registration for the well constructed under the authority of the Well Permit within 30 days after the expiration of the Well Permit. I agree that a water well flow meter must be installed to measure water production from the well before the well can be operated. I understand that the well must be operated and maintained in accordance the District's rules.

Applicant's Signature _____ Date _____
Reviewed By _____ Date _____
Approved By _____ Date _____

North Plains Groundwater Conservation District
PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) _____

Requested new classification UNUSED

Madine Bennett Sledge
1205 S. Amherst St.
Perryton, TX 79070-4129

I _____ hereby certify that Well No. OC-0291 located in Ochiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 10, Block 12, Survey H&GN will not be operated to exceed the actual pumping capacity of 0 GPM, and meets the spacing requirements of 0 yards from the nearest existing well or authorized well site and other rules of the District for a UNUSED Classification Well.

Madine B Sledge — Signature (Owner/Agent)

5-17-06 — Date

Original—District Office Copy

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

DRILLER'S LOG OF WELL

DESCRIPTION OF WELL

RECEIVED MAY 15 1956

Original—District Office Copy

Permit File No. 305

FOR USE OF COMMISSIONERS
Field Well No. 0-459

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

1. Well Owner HARLAN MARK Address RT. 1 – PERRYTON
2. Well location ... miles N. 8 ... of the town of PERRYTON
3. County OCHILTREE
4. NW¼ NE¼ SW¼ (SE¼) Section 9 Block 12 Survey H&OH
5. Actual location of this well is: 605 ... from N or (S) section line; 742 ... from (E) or W section line

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

From (feet)	To (feet)	Description of formation material	From (feet)	To (feet)	Description of formation material
0	248	[illegible]	521	550	Course sand & clay stks
248	277	Course sand			
277	300	Course sand			
300	330	Course sand & gravel			
330	370	Course sand & gravel/clay stks			
370	400	Course sand & gravel & clay stks			
400	430	Course sand & gravel, clay stks			
430	460	Course sand & gravel some clay			
460	492	Course sand & gravel			
492	521	Course sand & clay stks			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Lowell Williams Address Perryton, Texas Date Drilled 7/5/55

DESCRIPTION OF WELL

6. Casing: Diameter 16 in. Total length 551 ft.
7. Casing perforations: from 291 ft. to 550 ft. Size 3/16 Number per foot 36
8. Pump Column: Size 8 in. Total length 400 ft. Suction pipe: Size 8 in. Length 40 ft.
9. Pump bowls: Size 12" Number of stages 2 Pump discharge pipe: Size 8 in.
10. Depth to water level 265 ft. Pump discharge 1000 GPM. Pumping level 360 ft.
11. Power Unit: Electrical, Natural Gas, Other ... Horsepower 150

Remarks

Final Completion of Well—Date 7/23/55

The pump setting was [illegible] [illegible] account for 2 [illegible]
[illegible] [illegible] 1/1/65

RECEIVED
AUG - 7 2013

NORTH PLAINS GROUNDWATER Conservation District

DISTRICT USE ONLY
OWNER ID #
AGENT ID #
PROPERTY ID # 3908

ENTERED KQ

Well Reclassification

Current size or classification (as per permit or log): D

Requested new classification: Livestock not to exceed 17.5 GPM.

I, David Peckenpaugh, do hereby certify that Well number OC-0459 located in Ochiltree County, in the NW ¼, NE ¼, SW ¼, [SE ¼] of Section 9, Block 12, of the H&ON Survey, **will not be operated to exceed** the actual pumping capacity of 17.5 GPM, and meets the spacing requirements of 50 yards from the nearest existing well or authorized well site, as well as all other rules of the District for a(n) Livestock well classification.

A map showing the location of the well reclassified is attached.

OC-0459 is being replaced by OC-6985

Signature (Owner/Agent) [signature] Date 8-7-13

North Plains Groundwater
CONSERVATION DISTRICT

ENTERED 3/5/11 JJ

RECEIVED
MAR 0 1 2011
BY: USPS

Well Reclassification

Current size or classification (as per permit or log) unused

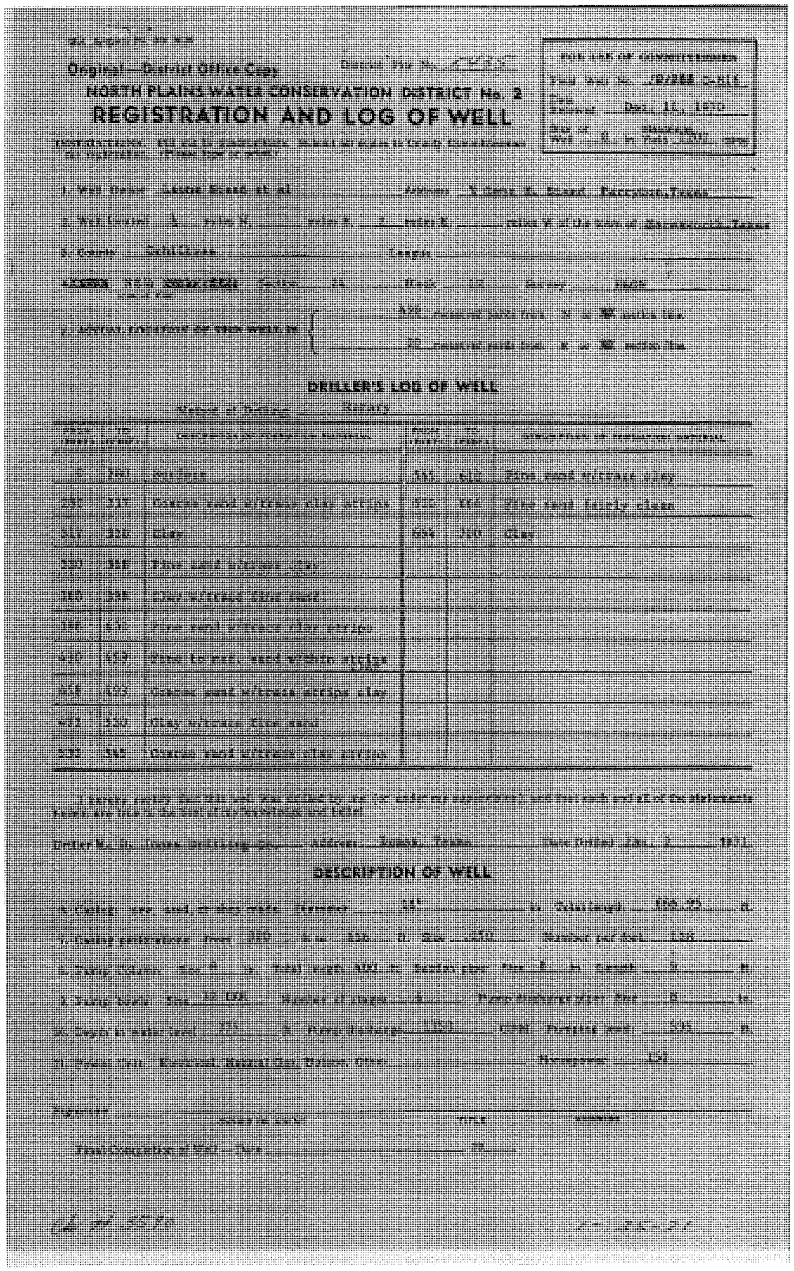
Requested new classification D

I Dan E. Steed do hereby certify that Well number OC-0816 located in Ochiltree County, in the NW ¼, NE ¼, SW ¼, SE ¼ of Section 24, Block 12, of the H&GN Survey, will not be operated to exceed the actual pumping capacity of 1200 GPM, and meets the spacing requirements of 500 yards from the nearest existing well or authorized well site, as well as all other rules of the District for a(n) D well classification.

Dan Steed
Signature (Owner/Agent)

2-26-2011
Date

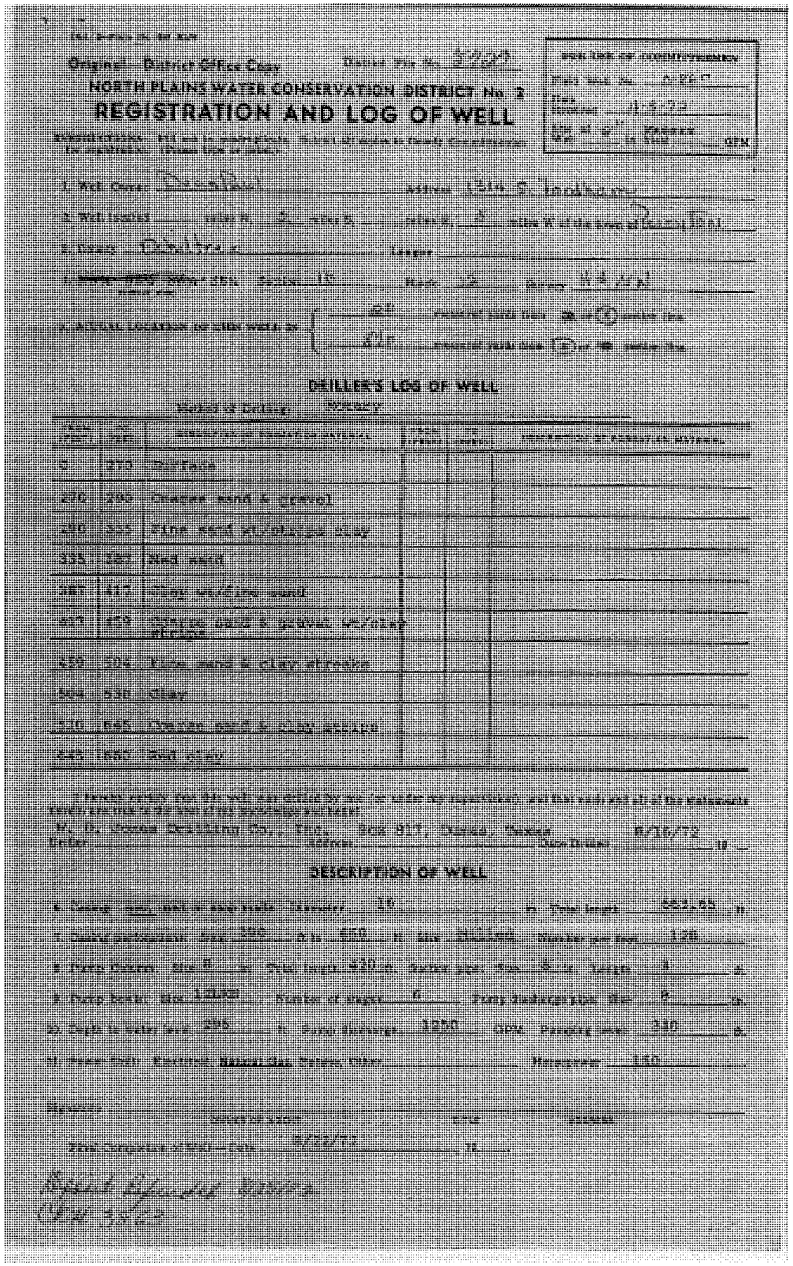
P.O. Box 795 • 603 East First • Dumas, TX 79029-0795 • (806) 935-6401 • Fax (806)-935-6633 • http://www.npwd.org



Original—District Office Copy
NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

DRILLER'S LOG OF WELL

DESCRIPTION OF WELL



Original - District Office Copy

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

DRILLER'S LOG OF WELL

DESCRIPTION OF WELL

North Plains Groundwater
CONSERVATION DISTRICT

ENTERED 3/3/11

Well Reclassification

Current size or classification (as per permit or log) Unused

Requested new classification C

I Dan E. Steed do hereby certify that Well number OC-1074 located in Ochiltree County, in the NW ¼, NE ¼, SW ¼, SE ¼ of Section 24, Block 12, of the H&GN Survey, will not be operated to exceed the actual pumping capacity of 800 GPM, and meets the spacing requirements of 400 yards from the nearest existing well or authorized well site, as well as all other rules of the District for a(n) C well classification.

Dan Steed
Signature (Owner/Agent)

2-26-2011
Date

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Original — District Office Copy

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

Field Well No. OC-1074

1. Well Owner: GENE STEED Address: 18 S.E. 3RD AVE. PERRYTON, TX [illegible]
2. Well located [illegible] miles N [illegible] miles S [illegible] miles E [illegible] miles W of the town of FARNSWORTH
3. County: OCHILTREE League [illegible]
4. NW/4 [illegible] Section 24 Block 13 Survey [illegible]
5. [illegible] 10 [illegible] / 100 [illegible]

DRILLER'S LOG OF WELL

Method of Drilling: ROTARY

From (feet)	To (feet)	Description of formation material	From (feet)	To (feet)	Description of formation material
0	370	SURFACE	608	614	CLAY, ROCK, RED CLAY, RED BED
370	408	MEDIUM FINE SAND			
408	450	MEDIUM COARSE SAND, CLAY STREAKS			
450	460	FINE SAND, MEDIUM GRAVEL STREAKS			
460	497	FINE SAND, MEDIUM GRAVEL, CLAY			
		STREAKS, SAND ROCK			
497	530	FINE SAND, CLEAN			
530	560	FINE SAND, CLAY STREAKS			
560	590	FINE SAND, CLEAN, LITTLE GRAVEL			
590	608	FINE SAND, CLEAN, CLAY STREAKS			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller: [illegible] DRILLING CO., INC. Address: P.O. BOX [illegible] Date Drilled: 3-10 19 96

DESCRIPTION OF WELL

6. Casing: [illegible] Diameter 16 in. Total length 612.00 ft.
7. Casing perforations: from 420.00 ft. to 608 ft. Size [illegible] Number per foot [illegible]
8. Pump Column: Size 8 in. Total length 500 ft. Suction pipe: Size [illegible] in. Length [illegible] ft.
9. Pump bowls: Size 12 Number of stages [illegible] Pump discharge pipe: Size [illegible] in.
10. Depth to water level 373 ft. Pump discharge 750 GPM Pumping level: 401 ft.
11. Power Unit: Electrical, Natural Gas, Butane, Other [illegible] Horsepower 100

Signature [illegible]

Final Completion of Well — Date 3-15-96 19

Refunded 6-17-96 Ck# 1184

From: 03/17/2014 10:13 #820 P.001/001

NORTH PLAINS GROUNDWATER Conservation District

P.O. Box 795
603 East First Street
Dumas, Tx 79029
Phone: 806-935-6401
Fax: 806-935-6633

Domestic or Exempt Well Registration

For District Use Only
Well Number: OC-7826
Date Registered: 03/17/14

If a Well exempted under this Rule is no longer used solely to supply Water for a rig that is actively engaged in drilling or exploration operations for an oil or gas well, and if the Well is, or is reworked to become, capable of producing more than 25,000 gallons of Groundwater a day, the Owner shall file an application with the District for a permit and comply with all District Rules.

	Owner/Company		Applicant:
Name:	ELLIOTT FAMILY FARMS LLC	Name:	ELLIOTT FAMILY FARMS LLC
Address:	13008 BURNT OAK RD	Address:	13008 BURNT OAK RD
City/State/Zip:	OKLAHOMA CITY, OK 73120	City/State/Zip:	OKLAHOMA CITY, OK 73120
Phone:	(405) 755-3215	Phone:	(405) 755-3215

Approximate date when well construction will begin (mm/dd/yy) ____________

Purpose of Well (Please circle one) Domestic Livestock Poultry (Rig Supply) Other (Please Specify) ____________

If the well is a rig supply, will the well be turned over to the Property Owner once drilling has been completed? (Please circle one) (Yes) No

Location of Proposed Well

Property ID:	4903	County:	OCHILTREE	Longitude:	-100.912333	Latitude:	36.332250
Quarter:	NE/4	Section:	7	Block:	13	Survey:	T&NO

Yards N/S from section line: 156N — Driller: HOWARD DRILLING CO

Yards E/W from section line: 166E — Well Completion Date: ____________ (Please attach well log if available)

Is the well located at least 50 or more yards from any other well? (Please circle one) (Yes) No

I do hereby certify that I am familiar with the information contained in this registration and that to the best of my knowledge and belief such information is true, complete, and accurate.

Applicant Signature: Dennis Howard Drilling — Date: 3-17-14

Approved By: Kirsten M. Lane — Date: 03/17/14

Approved By: Laura B. West — Date: 3/17/14

North Plains Groundwater
CONSERVATION DISTRICT

DISTRICT USE ONLY
Well Number: OC-7826
Date Registered: 3/6/2014

Domestic or Exempt Well Registration

Crane Exploration Inc.
Applicant Name & Contact Name (*If a business or Trust*) Phone Email

2221 Ave J. Arlington TX 76006
Applicant Address City ST Zip

Elliot Family Farms
Property Owner Name (*If other than applicant*) & Contact Name (*If a business or Trust*) Phone Email

Property Owner Address City ST Zip

Approximate date when well construction will begin *(mm/dd/yy)*: _____

Purpose of Well *(please circle one)*: Domestic Livestock Poultry (Rig Supply)
Other *(please specify)*: _____

If the well is a rig supply, will the well be turned over to the Property Owner once drilling has been completed? *(Circle one)* (Yes) No

Elliot Family Farms I-7

Location of Proposed Well

County: Ochiltree Quarter: _____ Section: 7 Block: 13

Survey: T+NO Other Location Description: _____

GPS: Longitude: N 36 19 56.1 Latitude: W 100 54 44.4
-100.912333 36.332250

The well will be located _____ feet from the North / South section line, and will be _____ feet from the East / West section line.

Is the well located at least 50 or more yards from any other well? *(Circle one)* (Yes) No

Driller Name: Howard Drilling Co Well Completion Date: _____
(Please attach well log if available.)

I hereby certify that I am familiar with the information contained in this registration and that to the best of my knowledge and belief such information is true, complete, and accurate.

Gilbert Howard Drilling Co 3-5-14
Applicant's Signature Date

Approved by Date

Reviewed by Date

P.O. Box 795 • 603 East First • Dumas, TX 79029-0795 • (806) 935-6401 • Fax (806)-935-6633 • http://www.npwd.org

OC-9973 w/ pump

STATE OF TEXAS WELL REPORT for Tracking #448113

Owner:	Brian & Tamarachena Pshigoda	Owner Well #:	IRR-1-17
Address:	12444 FM 3045 Perryton, TX 79070	Grid #:	04-41-2
Well Location:	Sec 18, BLK 12, H & GN Perryton, TX	Latitude:	36° 21' 28.4" N
Well County:	Ochiltree SW/4	Longitude:	100° 55' 26.72" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: 4/27/2017 Drilling End Date: 4/27/2017 8/24/17

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	24	0	661

Drilling Method: Reverse Circulation

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	15	661	Sand	Huber 70f/30c

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	15	Cement

Seal Method: Gravity
Sealed By: Driller

Distance to Property Line (ft.): No Data
Distance to Septic Field or other concentrated contamination (ft.): No Data
Distance to Septic Tank (ft.): No Data
Method of Verification: No Data

Surface Completion: Surface Slab Installed — Surface Completion by Driller

Water Level: No Data
Packers: No Data
Type of Pump: No Data
Well Tests: No Test Data Specified

Water Quality:	Strata Depth (ft.)	Water Type
	382 - 661	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hydro Resources Mid Continent Inc.**
PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	40	top soil, caliche, sand w/clay strips
40	360	sand w/clay strips
360	400	fine to med sand
400	500	fine, med & coarse sand
500	600	fine & med sand
600	661	fine & med sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	Blank	New Steel	0.25	-1	381
16	Perforated or Slotted	New Steel	0.1	381	661

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

NORTH PLAINS GROUNDWATER Conservation District

October 3, 2017

Brian and Tamarachena Pshiogoda
12444 FM 3045
Perryton, Tx 79070

Re: Expiration of Water Well Construction Permit(s)

Dear Brian & Tamarachena:

Well permit OC-9973 on Section 10 has expired and your new well should be complete.

I will be scheduling an inspecting in the next few weeks to inspect the new well for compliance with District Rules.

Once it is verified your well is in compliance, we can submit OC-9973 to the board for final approval.

Feel free to give me a call if you have any questions.

Sincerely,

Karen D. Jones
Administrative Support Specialist

603 East 1st Street Dumas, TX 79029 (806) 935-6401 Phone (806) 935-6633 Fax www.northplainsgcd.org

QC-11102 w/ pump

STATE OF TEXAS WELL REPORT for Tracking #511518

Owner:	**Joel Thompson**	Owner Well #:	**IRR 1-19**
Address:	**PO Box 215 Farnsworth, TX 79033**	Grid #:	**04-41-2**
Well Location:	**Sec 10, BL 12, H & GN RR Farnsworth, TX**	Latitude:	**36° 20' 54.49" N**
		Longitude:	**100° 55' 09.7" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **5/13/2019** Drilling End Date: **5/14/2019**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**4.5**	**0**	**681**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	**15**	**681**	**Gravel**	**Huber 70f/30c**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	**-1**	**15**	**Cement**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield and drawdown unspecified after 13 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**386 - 681**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hydro Resources Mid Continent Inc.**
PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	65	surface topsoil brown to gray clay
65	300	sand w/clay strips
300	400	red clay w/sandy clay strips to fine to med and w/sand clay strips
400	540	med fine to fine sand w/sandy clay strips
540	600	fine sand w/little clay mix
600	640	fine to med fine sand
640	660	med sand w/coarse sand strips to red clay
660	680	red clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	Blank	New Steel	0.25	-2	381
16	Perforated or Slotted	New Steel	0.1	381	661
16	Blank	New Steel	0.25	661	681

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #343469

Owner:	**David Peckenpaugh**	Owner Well #:	**IRR #2-13**
Address:	**PO BOX 253 Farnsworth, TX 79033**	Grid #:	**04-41-2**
Well Location:	**Sec 9, Blk 12, H&GN TX**	Latitude:	**36° 21' 12" N**
		Longitude:	**100° 56' 14" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/19/2013** Drilling End Date: **8/20/2013**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**24.5**	**0**	**662**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
	15	**662**	**Gravel**	**80f/20c**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	-1	**15**	**cement**

Seal Method: **Truck Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **none obsvd**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **367 ft.** below land surface on **2013-08-29** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Turbine** Pump Depth (ft.): **640**

Well Tests: **Pump** **Yield: 600 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hydro Resouces Mid Continent Inc**

PO BOX 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**180**	**surface top soil brown clay caliche and sandy clay**
180	**320**	**sand with clay stirps**
320	**340**	**fine to med sand with clay strips**
340	**400**	**fine to med sand**
400	**460**	**fine to med sand with clay stirps**
460	**480**	**fine to med sand**
480	**520**	**fine to med sand with clay strips**
520	**560**	**fine to med sand**
560	**580**	**fine to med sand with clay strips**
580	**640**	**fine to med sand**
640	**662**	**fine to med sand to red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

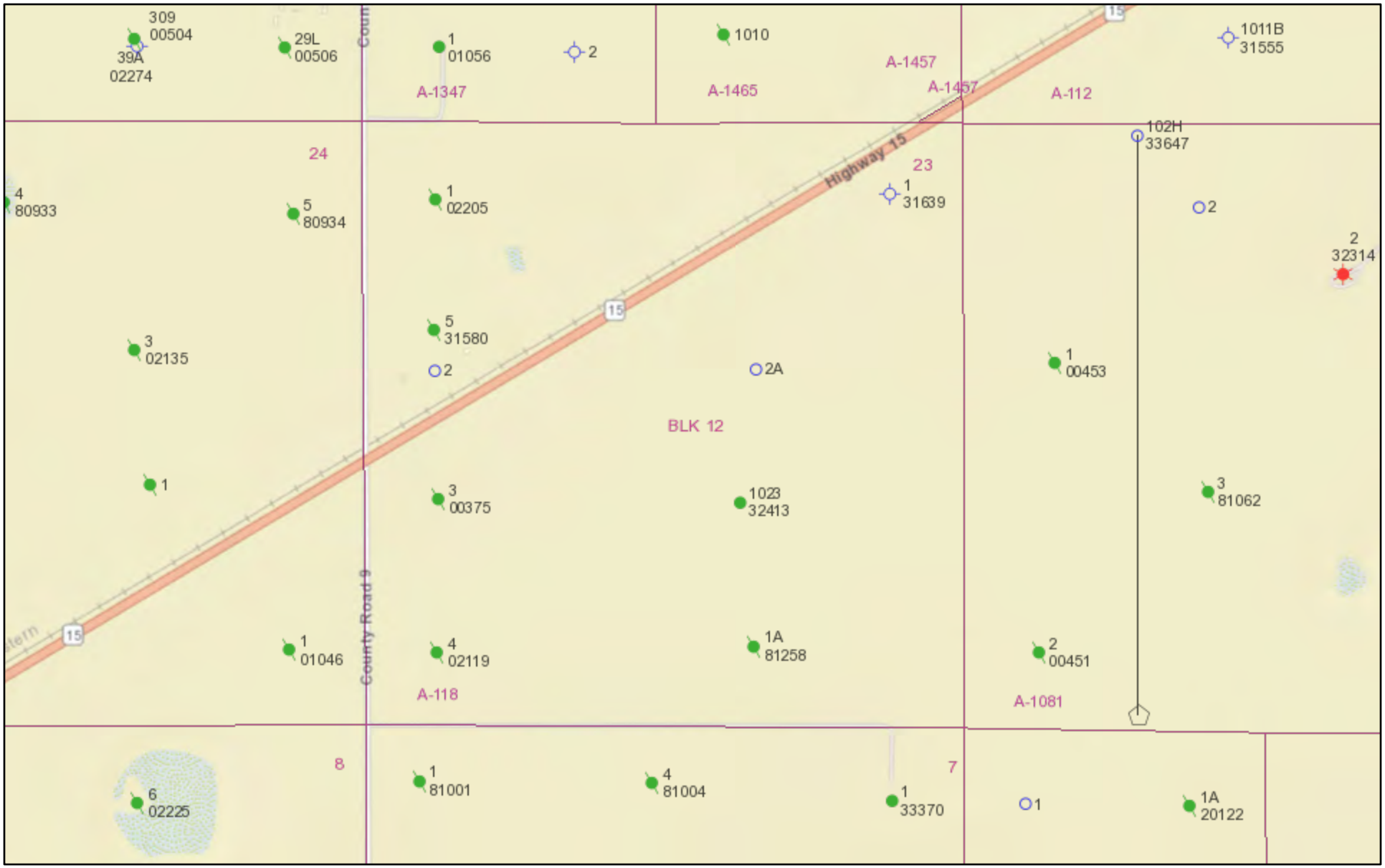
Dia. (in.) New/Used Type Setting From/To (ft.)
16 N .250 steel casing +1-412
16 N .100 mill slot perf 412-652
16 N .250 steel casing 652-662

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540



April 24, 2024

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Esri, HERE, Garmin, INCREMENT P, NGA, USGS

Public GIS Viewer Legend

Well Number

Well Locations

- Permitted Location
- Dry Hole
- Oil
- Gas
- Oil / Gas
- Plugged Oil
- Plugged Gas
- Canceled / Abandoned Location
- Plugged Oil / Gas
- Injection / Disposal
- Core Test
- Sulfur Test
- Storage from Oil
- Storage from Gas
- Shut-In Oil
- Shut-In Gas
- Injection / Disposal from Oil
- Injection / Disposal from Gas
- Injection / Disposal from Oil / Gas
- Geothermal
- Brine Mining
- Water Supply
- Water Supply from Oil
- Water Supply from Gas
- Water Supply from Oil / Gas
- Observation
- Observation from Oil
- Observation from Gas
- Observation from Oil / Gas
- Storage
- Service
- Service from Oil
- Service from Gas
- Service from Oil / Gas
- Storage from Oil / Gas
- Injection / Disposal from Storage
- Injection / Disposal from Storage / Oil
- Injection / Disposal from Storage / Gas
- Injection / Disposal from Storage / Oil / Gas
- Observation from Storage
- Observation from Storage / Oil
- Observation from Storage / Gas
- Observation from Storage / Oil / Gas
- Service from Storage
- Service from Storage / Oil
- Service from Storage / Gas
- Service from Storage / Oil / Gas
- Plugged Storage
- Plugged Storage / Oil

Public GIS Viewer Legend

- Plugged Storage / Gas
- Plugged Storage Oil / Gas
- Brine Mining
- Brine Mining / Oil
- Brine Mining / Gas
- Brine Mining / Oil / Gas
- Injection / Disposal from Brine Mining
- Injection / Disposal from Brine Mining / Oil
- Injection / Disposal from Brine Mining / Gas
- Injection / Disposal from Brine Mining / Oil / Gas
- Observation from Brine Mining
- Observation from Brine Mining / Oil
- Observation from Brine Mining / Gas
- Observation from Brine Mining / Oil / Gas
- Service from Brine Mining
- Service from Brine Mining / Oil
- Service from Brine Mining / Gas
- Service from Brine Mining / Oil / Gas
- Plugged Brine Mining
- Plugged Brine Mining / Oil
- Plugged Brine Mining / Gas
- Plugged Brine Mining / Oil / Gas
- Storage / Brine Mining
- Storage / Brine Mining / Oil
- Storage / Brine Mining / Gas
- Storage / Brine Mining / Oil / Gas
- Injection / Disposal from Storage / Brine Mining
- Injection / Disposal from Storage / Brine Mining / Oil
- Injection / Disposal from Storage / Brine Mining / Gas
- Injection / Disposal from Storage / Brine Mining / Oil / Gas
- Observation from Storage / Brine Mining
- Observation from Storage / Brine Mining / Oil
- Observation from Storage / Brine Mining / Gas
- Observation from Storage / Brine Mining / Oil / Gas
- Plugged Storage / Brine Mining
- Plugged Storage / Brine Mining / Oil
- Plugged Storage / Brine Mining / Gas
- Plugged Storage / Brine Mining / Oil / Gas

Orphan Wells

Commercial Disposal

Injection/Disposal

HCTS Deeper than 15,000 ft.

Public GIS Viewer Legend

High Cost Tight Sands

EOR H13 Oil Wells

Well Logs

Horiz/Dir Surface Locations

- Horizontal Well
- Directional Well

Horizontal/Directional Lines

LPGAS Sites

QPipelines

Pipelines

Bay Tracts

Offshore Areas

Offshore Tracts

Water Lines

Subdivisions

Railroads

Surveys

Quads

Alert Areas

Water

City Limits

Counties

Operator Cleanup Program Sites

- Active
- Closed

Voluntary Cleanup Program Sites

- VCP, Accepted
- VCP, Closed

Brownfield Response Program Sites

- Brownfield, Accepted
- Brownfield, Closed

Commercial Waste Disposal Sites & Discharge Permits

- Commercial Waste Disposal
- Discharge Permits

Oil and Gas Districts

AED Districts

Pipeline Safety Regions

Groundwater Technical Report

The purpose of this section is to provide information on the geologic features and groundwater resources in the area of the Perryton Feedmill property and to identify Best Management Practices (BMP)s that will be used to protect these resources.

Geomorphologic/Geologic Features

The Pullman-Randall association in this area of Ochiltree County are immediately underlain by the Blackwater Draw Formation. The Blackwater Draw Formation consists of quartz sand, fine to medium grained, silty, calcareous, caliche nodules with distinct soil profile locally and in Texas mostly Illinoian. The Ogallala Formation consists of sand, silt, clay, gravel and caliche.

A limited geotechnical investigation was performed utilizing available information through existing well logs mentioned previously and utilizing a USDA-NRCS Web Soil Survey of the property. Additionally, a core sample of the soil was taken in the vicinity of the existing evaporation pond cell location and tested for permeability. As a result of this investigation, it was found that a significant amount of clay soil exists on-site and could be available for use in the construction of the soil liner.

Existing well log OC-1124 (dated 12-16-1997) reveals that the depth to groundwater is approximately 321 feet. The Web Soil Survey for the immediate area reveals that the existing predominant soil is a Sherm clay loam at ground surface to a depth of at least 80 inches. The hydrologic soil group for the area is C.

Outcrops/Stream Interception

Recharge to the Ogallala aquifer can occur by the infiltration of precipitation on an outcrop or stream interception (Knowles et al., 1984). No outcrops or stream interceptions are located on the subject property.

Topographic Depressions

The USGS Quadrangle Map does not identify the presence of topographic depressions.

Excessive Slopes

No slopes of greater than 8 percent are present in the areas of the evaporation ponds.

Other Large-Scale Conduits

No faults, fractured sediments, caves, sinkholes, solution cavities, vugs or concentrated or extensive animal burrowing were observed during an on-site visit, nor were any identified on the geologic atlas, Soil Surveys or USGS maps.

Aquifer

The Ogallala aquifer, the major water-bearing unit in the High Plains of Texas, provides water to all or parts of 46 counties. Vertical hydrologic communication also occurs between the Ogallala and the underlying Cretaceous, Jurassic, and Triassic formations in many areas and between the overlying Quaternary Blackwater Draw Formation where present.

The Blackwater Draw Formation consists of a thin sheet-like body of clayey sand and silt that contains a number of buried soil horizons. The sediments of the Blackwater Draw Formation texturally grade from a sandy loam in the southwest portion of the northern High Plains to mostly a clay loam in the southern Texas Panhandle.

The Ogallala is composed primarily of sand, gravel, clay, and silt deposited during the Tertiary Period. Ground water, under water-table conditions, moves slowly through the Ogallala Formation in a southeastward direction toward the caprock edge or eastern escarpment of the High Plains. The saturated thickness of the aquifer is generally greater in the northern part of the region and thinner in the southern part where the formation overlaps Cretaceous rocks.

Recharge to the Ogallala occurs principally by infiltration of precipitation on the surface and, to a lesser extent, by upward leakage from underlying formations. Only about one inch of the precipitation actually reaches the water table annually because rainfall in minimal, the evaporation rate is high, and the infiltration rate is slow. The highest recharge infiltration rates occur in areas overlain by sandy soils and in playa-lake basins (Ashworth and Hopkins, 1995).

Water Wells

All water wells within a 1/2-mile radius of the property are identified in the previous section, and all available well logs are attached.

Best Management Practices

The existing and proposed irrigation systems are designed to irrigate cropland and hay land areas at designed application rates that will not exceed the infiltration rate of the soil. Due to the low application rates, no pooling, ponding or tailwater is anticipated in sprinkler irrigated areas. Surface irrigation systems will be designed to minimize the creation of tailwater. Any tailwater from these fields will be contained within the field border. All irrigation and evaporation ponds are and will be properly lined in accordance with TCEQ rules.

References

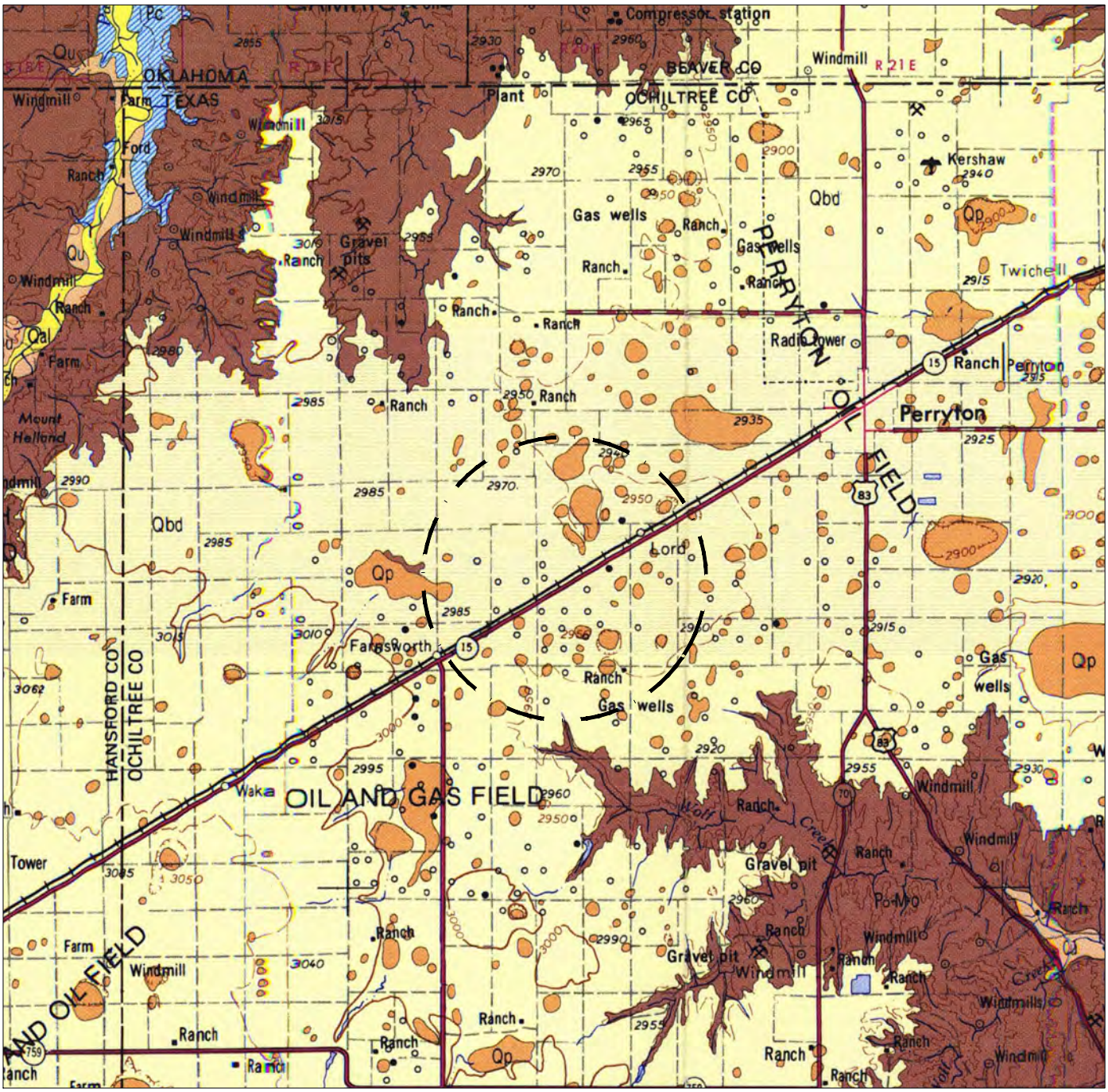
Ashworth and Hopkins, November 1995. Aquifers of Texas. Report 345, Texas Water Development Board.

Bureau of Economic Geology, The University of Texas at Austin, Geologic Atlas of Texas – Perryton Sheet. Online version retrieved December 2020, https://txpub.usgs.gov/txgeology/

Knowles, T., Nordstrom, P., Klemt, W. B., Report 288, "Evaluating the Ground Water Resources of the High Plains of Texas". Texas Department of Water Resources, Volume 1, May 1984.

USDA NRCS, Soil Survey of Ochiltree County, Texas, 1973.

USDA NRCS, Web Soil Survey, Retrieved April 2024. http://websoilsurvey.nrcs.usda.gov/app/



Legend:

Qbd– Quaternary Blackwater Draw Formation

N
W E
S

No Scale

Source: Geologic Atlas of Texas, Perryton Sheet, 1970.

Seaboard Foods LLC Perryton Feedmill Ochiltree County, TX	Geologic Atlas of Texas Figure C-2	ENVIRO–AG EAF ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Blvd. AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

T.D: SOILS MAP & INFORMATION

Map Scale: 1:11,600 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 150 300 600 900

Feet
0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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: Ochiltree County, Texas
Survey Area Data: Version 19, 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: Aug 10, 2022—Sep 8, 2022

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
PuA	Sherm clay loam, 0 to 1 percent slopes	331.2	100.0%
Totals for Area of Interest		**331.2**	**100.0%**

T.E: ENGINEERING REPORT – EVAPORATION

ENGINEERING REPORT

Industrial Wastewater Permit Application

Prepared For:

Seaboard Foods LLC

Perryton Feedmill

12025 W State Hwy 15

Perryton, TX 79070

F#2507

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED
PROFESSIONAL ENGINEER

5-13-2024

May 2024

Prepared By:

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO - STEPHENVILLE- ARTESIA

3404 Airway Boulevard ♦ Amarillo, Texas 79118 ♦ Tel 806/353-6123 ♦ Fax 806/353-4132

Executive Summary

Seaboard Foods LLC (Seaboard) proposes the construction of a second evaporation pond based on the feedmill expansion. The second evaporation pond cell will be utilized for the disposal of wastewater generated from the additional boiler blowdown and water softener regeneration. The pond will allow the wastewater to be disposed of through evaporation. The feedmill is located at 12025 West State Highway 15 near Perryton, Texas, being the northeast corner of the intersection of State Highway 15 and County Road 9 in Ochiltree County. Seaboard seeks the permittance of a max daily flow of 24,000 GPD. The feedmill utilizes two boilers to produce steam to flake grains necessary for feed rations for Seaboard's surrounding swine facilities. The boiler blowdown and water softener backwash wastewater will first gravity drain and collect at an underground sump basin and then pumped to the evaporation ponds where the wastewater will be discharged. The feedmill generally operates Monday through Saturday from 5:00 a.m. to 11:00 p.m., where there may be occasions when operations will be longer and up to 24 hours a day. The existing evaporation pond cell is a 3-foot constructed clay soil lined pond at 1.29 acres in area and 4.91 acre-feet in volume capacity. The design proposed for the new evaporation pond cell is a 3-foot constructed clay soil lined pond being 4 acres in area and 20 acre-feet in volume capacity. The following report describes in better detail the process of wastewater generation and design of the evaporation pond cell.

Wastewater Generation Process

Seaboard's Perryton Feedmill generates wastewater from boiler blowdown and water softener backwash. The boilers are used to produce steam to flake grains necessary feed preparation. Typically, the steam used in the feed preparation occurs at a rate of 4% water content held in the feed itself. Consequently, the gallons of water required for the operation are based on 11,000 tons of prepared feed per week. Water softening equipment utilizing a deionizing system is currently used to protect the boiler system from hard water. As a result, the water softening system will discharge water on a backwash/regeneration cycle. The boiler blowdown occurs at a 10% rate. As a result, the total wastewater generated from the boiler blowdown and water softener backwash is 24,000 gallons per day (GPD). Figure B-1 of the Industrial Technical Report illustrates the process flow diagram for the wastewater generation components and also provides detailed water balance data for the wastewater generated. Additionally, the boiler utilizes chemical additives for protection of equipment. These chemical additives can be found in Attachment T.F of the Industrial Technical Report.

As shown on Figure B-1 of the Industrial Technical Report, Seaboard seeks the permittance of a max daily flow of 24,000 GPD and average daily flow of 11,000 GPD to be discharged to the newly proposed and existing evaporation pond cells. Other sources of water entering the proposed evaporation pond will be rainfall directly over the pond. Additionally, a small area drain exists outside the boiler room building and

captures less than 1,000 square feet of paved area during rainfall events. All other rainfall drainage will be directed away from the pond.

Evaporation Pond Design

The existing proposed evaporation pond for Seaboard's Perryton Feedmill is single pond cell (Pond 1) and was designed per TCEQ's required critical condition (worst case) for storage capacity as well as evaluated for the adequacy of the surface area to evaporate all wastewater volume under average rainfall conditions. The existing pond will be expanded and with an additional cell. Wastewater will be directed via pipe to either the existing Evaporation Pond #1 or the new Evaporation Pond #2. These structures will act in series and provide overall evaporative storage.

The evaporation ponds are sized to provide adequate storage volume to satisfy a one-year worst case condition being the lowest net annual evaporation from the past 25 years of climatological data. The source where these values were taken from was the Texas Water Development Board, Quadrangle 107 for the period of record from 1998 through 2022. In addition to satisfying the critical condition storage capacity, the pond was sized to provide enough additional capacity for a 25-year/24-hour storm event. The required storage capacity for the pond based on the critical condition evaluation is 24 ac-ft. The existing pond provides 4.91 ac-ft of storage volume with two feet of freeboard provided. The new pond design provides an additional 20 ac-ft of storage volume with two feet of freeboard. The ponds were then evaluated for the adequacy of the surface area to evaporate all wastewater on a yearly basis under average rainfall conditions. The surface area was determined adequate when the required storage volume over a year period was equal to or less than zero. The total design provides approximately 6 acres of evaporative surface area and results in a net storage volume of less than zero. Tables 1 and 2 show the critical and average condition evaluations.

The new evaporation pond for Seaboard's Perryton Feedmill will be a 3-foot constructed clay soil lined pond. Refer to the Evaporation Pond Construction Plans and specifications included for the construction of Pond 2 and 3-foot clay soil liner.

The evaporation ponds are located within the watershed area of an existing playa lake (Unclassified Segment 0100) located northeast of the Seaboard Foods LLC property. The existing and proposed ponds are located within the 100-year flood plain of the playa lake as determined from the USGS 7.5-Minute Series Quadrangle Map for Farnsworth, TX. Additionally, the proposed pond location was reviewed with existing wetland locations available through the U.S. F&W National Wetlands Inventory. As a result, no wetlands exist on the property and the immediate area.

Geotechnical Investigation

A limited geotechnical investigation was performed utilizing available information through existing well logs, utilizing a USDA-NRCS Web Soil Survey and core samples collected as part of the construction of Evaporation Pond #1. As a result of this investigation, it was found that a significant amount of clay soil exists on-site and could be available for use in the construction of the soil liner in Evaporation Pond #2.

Initial core sample collected on 2-8-2017 and tested for permeability revealed a hydraulic conductivity of 3.4×10^{-8} cm/sec. Existing well log OC-1124 (dated 12-16-1997) reveals that the depth to groundwater is approximately 321 feet. The Web Soil Survey for the immediate area reveals that the existing predominant soil is a Sherm clay loam at ground surface to a depth of at least 80 inches. The hydrologic soil group for the area is C. All information can be found in Attachment T.C & T.D of the Industrial Technical Report.

Table 1. Evaporation Ponds #1 & 2 - Critical Condition Evaluation

30 Texas Administrative Code (TAC), Chapter 309, Subchapter C outlines procedures used to determine appropriate design for irrigation systems at domestic wastewater treatment plants. Appropriate evaporation pond sizing is determined based upon these procedures using best professional judgement (BPJ). These procedures consist of two evaluations: critical condition evaluation and average condition evaluation.

The **critical condition evaluation** is designed to evaluate the storage capacity of the pond(s) under a "worst case scenario." The worst case scenario is defined as the 25 year lowest net evaporation* assuming daily flow to the pond at the permitted rate. The pond's storage capacity is considered adequate when the Total Storage Necessary is less than or equal to the Pond Storage Volume (the pond could contain all wastewater discharged when evaporation is lowest).

The following is a summary of calculations performed in determining the Total Storage Necessary:

Effluent Flow	0.024	MGD
Pond Surface Acres	3.952	acres (effective)
Pond Storage Volume	24.93	acre-feet
Pond Surface Area	6.08	acres (overall)

Month	# of Days	Flow to Ponds (acre-feet)	Evap Rate (feet)	Evap From Ponds (acre-feet)	Precip Rate (feet)	Precip to Pond (acre-feet)	Storage Requirements (acre-feet)
January	31	2.28	0.59	2.34	0.04	0.27	0.21
February	28	2.06	0.18	0.69	0.05	0.31	1.68
March	31	2.28	0.33	1.28	0.06	0.39	1.38
April	30	2.21	0.36	1.44	0.35	2.11	2.89
May	31	2.28	0.37	1.46	0.67	4.08	4.91
June	30	2.21	0.44	1.74	0.31	1.89	2.36
July	31	2.28	0.53	2.09	0.32	1.92	2.10
August	31	2.28	0.59	2.33	0.22	1.35	1.31
September	30	2.21	0.58	2.31	0.06	0.34	0.25
October	31	2.28	0.29	1.14	0.33	2.02	3.16
November	30	2.21	0.32	1.25	0.16	0.96	1.92
December	31	2.28	0.18	0.72	0.17	1.03	2.60
					Total Storage Necessary		**24.76**

*Texas Water Development Board Lake Evaporation and Precipitation data for Quadrangle 107 for the period of record 1998 through 2022. Downloaded from https://waterdatafortexas.org/lake-evaporation-rainfall on 4/10/24.

Table 2. Evaporation Ponds #1 & 2 - Average Condition Evaluation

The pond(s) must have enough surface area to evaporate all the flow to the pond(s) under average rainfall conditions. The pond is considered adequately sized when the Total Storage Necessary is less than or equal to zero. If this value is greater than zero, the pond's surface must be increased or the effluent flow reduced to ensure that no accumulation occurs during average conditions.

The following is a summary of calculations performed in determining the Total Storage Necessary:

Effluent Flow	0.024	MGD
Pond Surface Acres	3.952	acres (effective)
Pond Storage Volume	24.93	acre-feet
Pond Surface Acres	6.08	acres (overall)

Month	# of Days	Flow to Ponds (acre-feet)	Evap Rate (feet)	Evap From Ponds (acre-feet)	Precip Rate (feet)	Precip to Pond (acre-feet)	Storage Requirements (acre-feet)
January	31	2.28	0.24	0.96	0.05	0.32	1.65
February	28	2.06	0.25	1.01	0.05	0.31	1.37
March	31	2.28	0.44	1.73	0.13	0.81	1.37
April	30	2.21	0.54	2.12	0.15	0.90	0.99
May	31	2.28	0.54	2.14	0.22	1.35	1.49
June	30	2.21	0.74	2.93	0.26	1.59	0.87
July	31	2.28	0.79	3.12	0.21	1.28	0.45
August	31	2.28	0.70	2.77	0.23	1.43	0.94
September	30	2.21	0.58	2.29	0.11	0.69	0.61
October	31	2.28	0.44	1.74	0.19	1.15	1.69
November	30	2.21	0.34	1.35	0.06	0.35	1.21
December	31	2.28	0.25	1.00	0.07	0.40	1.69
						Total Storage Necessary	**14.32**

*Texas Water Development Board Lake Evaporation and Precipitation data for Quadrangle 107 for the period of record 1998 through 2022. Downloaded from https://waterdatafortexas.org/lake-evaporation-rainfall on 4/10/24.

CONSTRUCTION & LINER SPECIFICATIONS

Perryton Feedmill

Prepared For:

Seaboard Foods LLC

Perryton Feedmill

12025 W State Hwy 15

Perryton, TX 79070

April 25, 2024

Prepared By:

3404 Airway Boulevard ♦ Amarillo, Texas 79118 ♦ Tel 806/353-6123 ♦ Fax 806/353-4132

The following specifications should be followed in the construction of evaporation pond #2 including the compacted clay liner at Seaboard Foods LLC – Perryton Feedmill. Any proposed changes to these specifications must be approved by the Engineer prior to implementation.

1.0 Purpose

The purpose of these specifications is to provide specifications for the pond construction and proper installation of a clay liner.

2.0 Introduction

Seaboard Foods LLC – Perryton Feedmill is an existing facility located at 12025 W State Hwy 15 near Perryton, Texas being the northeast corner of the intersection of State Hwy 15 and County Rd 9. Based on the State rules for industrial wastewater ponds, the clay liner shall be constructed according to the specifications discussed herein.

3.0 Site Preparation

The construction site shall be cleared of any rocks, brush, trees, boulders, sod, crop roots or rubbish. After stripping, the foundation area shall be prepared to assure a bond with the liner material by removing loose, dry material, scarifying, discing, adjusting moisture content and compacting as necessary.

4.0 Embankment Construction

The following minimum standards for the construction of pond embankments, where the water impounded against the embankment at the spillway elevation is three feet or greater from original ground shall be considered to be designed with an embankment. Embankment construction specifications are as follows:

a) Soils used shall be free of foreign material such as trash, brush or fallen trees
b) The embankment shall be construction in 6-inch thick lifts and compacted to 95% of Standard Proctor at +3% to -1% of optimum moisture content. There is a minimum of two moisture and compaction tests required per lift.
c) Upon completion, all embankment walls shall be stabilized to prevent erosion or deterioration
d) Embankment construction must be accompanied by laboratory certified compaction tests in accordance with ASTM D698 or equivalent testing standards.

During embankment construction, the moisture and compaction should be tested for every compacted lift using a nuclear moisture-density meter, or equivalent, at a rate of approximately three tests per embankment per lift. All compaction readings shall be recorded and properly documented as specified in Part 8 of this document.

5.0 Liner Material

It is anticipated that the liner material for the pond will be located within the pond excavation area. As liner excavation takes place, the material shall continue to be field inspected for homogeneity by a qualified geotechnical technician. If unanticipated soil

materials are encountered during excavation, these materials shall be field sampled and laboratory tested to determine their suitability as liner material.

Any material which will not meet the hydraulic conductivity criteria will not be used. If sufficient amounts of suitable liner material are not available at this site, the Engineer may approve materials from borrow areas, or the addition of soil amendments, such as bentonite. If soil amendments are required, the Engineer shall specify the mixing ratio in order to achieve the desired hydraulic conductivity.

The pond shall be over-excavated to a depth of 30 in below the intended pond floor with the first layer being a compacted 6-inch in-situ so that a 36-in thick compacted clay liner can be installed and the required final pond dimensions achieved. If sand or rock is encountered, the Engineer may require these areas to be over-excavated and additional suitable liner material be placed in these areas.

6.0 Liner Construction

The pond shall be excavated so that once the liner has been installed the final dimensions are as shown on the plans. The minimum compacted liner thickness (floor and sidewalls) shall be 36 inches. Proposed Pond #2 shall utilize the first 6-in in-situ soil as the first liner lift. This lift shall be scarified, moisture conditioned and recompacted in place per specifications described below. The remaining 5 liner lifts will be stockpiled then placed back into the pond per the Engineer's soil liner specifications. The final compacted thickness of the soil liner will be 36 inches.

The liner material shall be free of sod, roots, frozen soil, stones over three (3) inches in diameter and other objectionable material. Only materials specified for use as liner material are to be used. The distribution and gradation of materials shall be such that there will be no lenses, pockets, streaks or layers of material differing substantially in texture or gradation from the preferred material. The liner sub-grade shall be proof-rolled prior to the installation of the compacted clay liner.

The clay liner shall be constructed using a maximum of six 6-in thick lifts (compacted thickness). A sheepsfoot roller or wheel rolling shall be used as the compaction tool (minimum of two passes per lift). The clay shall be compacted to a minimum of 95% of Standard Proctor (ASTM D-698) at -1 to plus of optimum moisture. When properly compacted (95% of maximum dry density at optimum moisture content), the liner shall have a hydraulic conductivity of 1.0×10^{-7} cm/sec or better to meet the TCEQ requirements.

If sufficient amounts of suitable liner material are not available on the site, the Engineer may approve materials from borrow areas or the addition of soil amendments, such as bentonite. The Engineer shall specify the mixing ratio in order to achieve the desired hydraulic conductivity. If any area of the pond floor (beneath the liner) must be constructed by placing fill material, the fill material should come from stockpiles of the candidate liner material defined in these specifications and be placed to meet the 95% maximum dry density at the specified moisture content. Prior to adding this material, the native grade should be developed as defined in Section 1.0.

7.0 Final Compacted Clay Liner Surface

The top surface of the final compacted clay liner lift should be constructed using a sheepsfoot roller. This procedure should leave the finished surface rough to reduce the potential for surface erosion.

8.0 Liner Evaluation

During construction of the liner, the moisture and compaction should be tested for every compacted lift using a nuclear moisture-density meter, or equivalent, according to the schedule in Table 1.

Table 1: Moisture and Compaction Testing Requirements

Pond	Walls: No. Tests Per Lift	Floor: No. Tests Per Lift	Total Tests/Lift
Pond #2	8	4	12

Note: All density tests shall be evenly distributed throughout the surface area of the pond.

All compaction/moisture readings shall be recorded and properly documented with the following information:

- project name
- date
- test method used
- site name
- technician name
- location of reading
- percent compaction
- wet density, pcf
- dry density, pcf
- moisture content, %
- lift number
- minimum compaction required
- acceptable moisture limits
- lab name, report number and standard proctor test results used to obtain field measurements

Any readings that fall below the minimum compaction/moisture requirements shall be documented. When minimum compaction/moisture content requirements are not met, the problem area shall be reworked and reevaluated until the compaction requirements are met. All retest information shall be documented. For each re-worked area, a minimum of two passing compaction/moisture tests must be provided.

In all cases water will be required to bring moisture content of the liner material up to the desired level. The amount of water required should be sufficient to bring the moisture level of the mixture to the optimum moisture content. Immediately after the water is

applied, it should be thoroughly mixed with the soil to prevent ponding and enable the compaction equipment to operate.

Once the compacted clay liner has been constructed, the Engineer shall make a final inspection and Shelby tube core samples shall be collected by the Engineer or Engineer's Representative from the floor and sidewalls of the waste storage pond as follows and delivered to Enviro-Ag Engineering, Inc. for permeability testing:

Pond #2: 2 cores from floor, 4 cores from sidewalls

The thickness of the compacted clay liner shall be determined at the time the cores are collected. The core holes shall be backfilled with a 30% sodium bentonite mixture to prevent seepage. The cores shall be tested for permeability (ASTM D-5084 or approved equivalent). Results of the permeability tests and liner thickness evaluations shall be reported to the Engineer in a final report for the pond.

The following verifications for all pond liner designs must be met:

Liner thickness: **36" (minimum)**

Coefficient of permeability: **1.0×10^{-7} cm/sec (maximum)**

9.0 Final Report

The following information is required in a report for the pond from the testing laboratory:

- Liner thickness documentation
- Moisture/density test readings taken during the installation of each compacted lift
- Coefficients of permeability from the Shelby tube cores
- Map showing the locations of test readings and soil cores

10.0 Pond Construction

The pond shall be constructed to the lines and grades shown on the plans without reference to quantities represented on the plans. The margin of tolerance is 0.1 ft.

11.0 Pond Certification

The finished pond shall be inspected by the Engineer. Based on the inspection and the final report from the geotechnical laboratory, the Engineer shall certify that the pond meets or exceeds TCEQ requirements for soil liner.

12.0 Inspections

Periodic inspections of the pond and liner construction will be performed during the construction process. The Contractor shall contact the Engineer at each of the following construction stages:

- When the over-excavation for the liner is reached for the pond.
- When the first 6-inch lift of the soil liner is complete.
- When the final 6-inch lift is complete.
- If any unanticipated soils/rock is encountered during excavation.

The Engineer/Engineer's Technician will perform inspections of the pond construction during the above construction stages. Other unannounced inspections may take place at the discretion of the Engineer. Any problems or concerns that may result from the inspections shall be discussed with the Contractor immediately. The Engineer shall prepare a written record of each inspection that shall include the following:

- Date & time
- Weather conditions
- The reason for the inspection
- The approximate stage of construction
- Any details observed during the inspection
- Any details discussed with the Contractor during the inspection

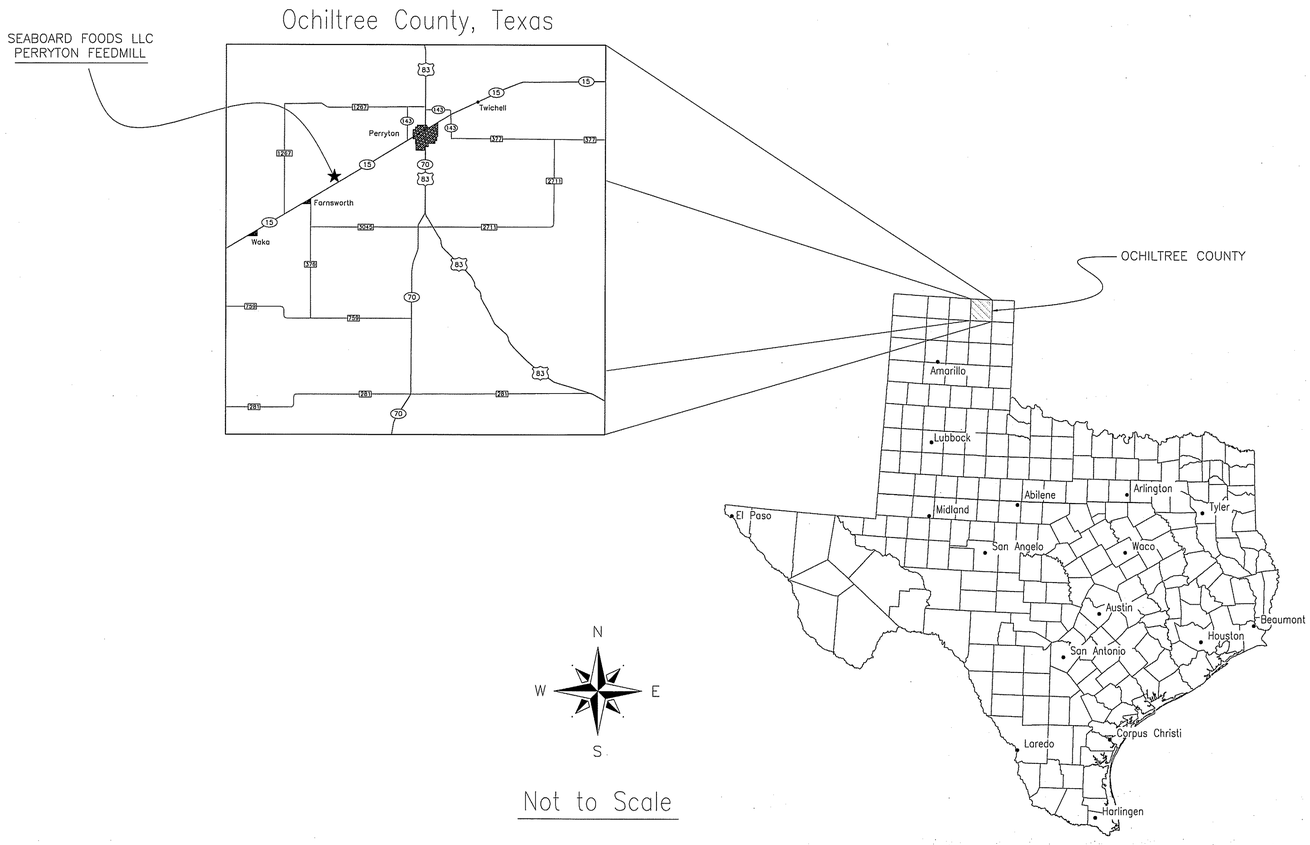
13.0 Attachments

See attached site plan.

SEABOARD FOODS LLC
PERRYTON FEEDMILL
EVAPORATION POND #2 - EARTHWORK CONSTRUCTION PLANS

PROPERTY IS LOCATED APPROXIMATELY 7.5 MILES SOUTHWEST OF
PERRYTON, OCHILTREE COUNTY, TEXAS AT THE NEC OF THE INTERSECTION OF S.H. 15 & C.R. 9
LATITUDE: 36° 20' 35" N - LONGITUDE: 100° 55' 29" W

SHEET INDEX



PROJECT:
SEABOARD FOODS LLC - PERRYTON FEEDMILL
EVAP. POND #2 - EARTHWORK CONSTRUCTION PLANS
PERRYTON, OCHILTREE COUNTY, TEXAS

ENVIRO-AG ENGINEERING, INC.
ENGINEERING CONSULTANTS
3404 Airway Blvd.
Amarillo, Texas
79118
TEL (806) 353-6123
FAX (806) 353-4132

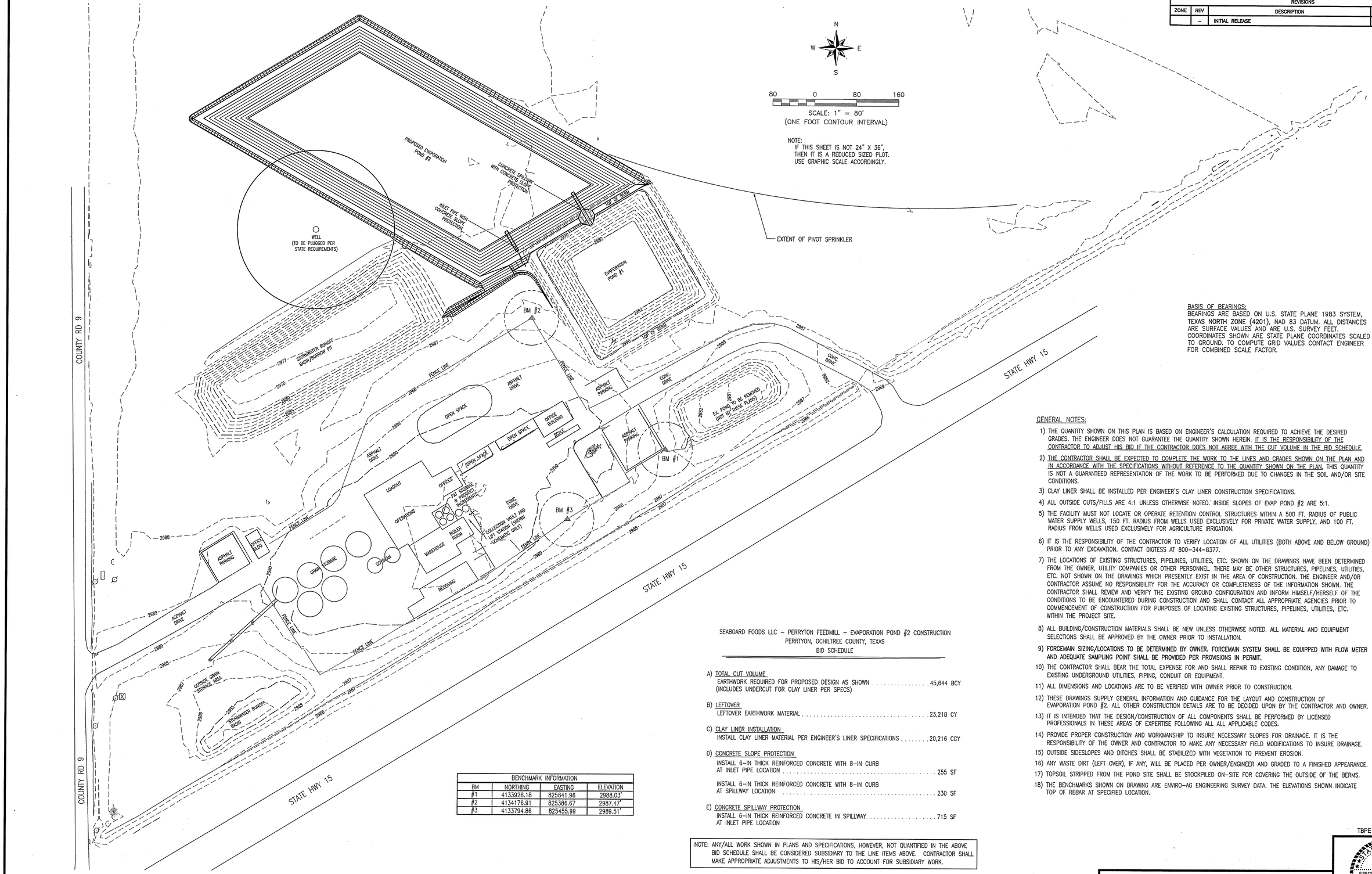
SHEET DESCRIPTION:
COVER SHEET
INDEX AND LOCATION MAP

TBPE FIRM NO. 2507

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED PROFESSIONAL ENGINEER
05-13-2024

DWG SEABOARD FOODS LLC - PERRYTON FEEDMILL
COVER SHEET - INDEX AND LOCATION MAP

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	–	INITIAL RELEASE	05/11/24	



BASIS OF BEARINGS:
BEARINGS ARE BASED ON U.S. STATE PLANE 1983 SYSTEM, TEXAS NORTH ZONE (4201), NAD 83 DATUM. ALL DISTANCES ARE SURFACE VALUES AND ARE U.S. SURVEY FEET. COORDINATES SHOWN ARE STATE PLANE COORDINATES SCALED TO GROUND. TO COMPUTE GRID VALUES CONTACT ENGINEER FOR COMBINED SCALE FACTOR.

GENERAL NOTES:

1) THE QUANTITY SHOWN ON THIS PLAN IS BASED ON ENGINEER'S CALCULATION REQUIRED TO ACHIEVE THE DESIRED GRADES. THE ENGINEER DOES NOT GUARANTEE THE QUANTITY SHOWN HEREIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST HIS BID IF THE CONTRACTOR DOES NOT AGREE WITH THE CUT VOLUME IN THE BID SCHEDULE.
2) THE CONTRACTOR SHALL BE EXPECTED TO COMPLETE THE WORK TO THE LINES AND GRADES SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE SPECIFICATIONS WITHOUT REFERENCE TO THE QUANTITY SHOWN ON THE PLAN. THIS QUANTITY IS NOT A GUARANTEED REPRESENTATION OF THE WORK TO BE PERFORMED DUE TO CHANGES IN THE SOIL AND/OR SITE CONDITIONS.
3) CLAY LINER SHALL BE INSTALLED PER ENGINEER'S CLAY LINER CONSTRUCTION SPECIFICATIONS.
4) ALL OUTSIDE CUTS/FILLS ARE 4:1 UNLESS OTHERWISE NOTED. INSIDE SLOPES OF EVAP POND #2 ARE 5:1.
5) THE FACILITY MUST NOT LOCATE OR OPERATE RETENTION CONTROL STRUCTURES WITHIN A 500 FT. RADIUS OF PUBLIC WATER SUPPLY WELLS, 150 FT. RADIUS FROM WELLS USED EXCLUSIVELY FOR PRIVATE WATER SUPPLY, AND 100 FT. RADIUS FROM WELLS USED EXCLUSIVELY FOR AGRICULTURE IRRIGATION.
6) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES (BOTH ABOVE AND BELOW GROUND) PRIOR TO ANY EXCAVATION. CONTACT DIGTESS AT 800-344-8377.
7) THE LOCATIONS OF EXISTING STRUCTURES, PIPELINES, UTILITIES, ETC. SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE OWNER, UTILITY COMPANIES OR OTHER PERSONNEL. THERE MAY BE OTHER STRUCTURES, PIPELINES, UTILITIES, ETC. NOT SHOWN ON THE DRAWINGS WHICH PRESENTLY EXIST IN THE AREA OF CONSTRUCTION. THE ENGINEER AND/OR CONTRACTOR ASSUME NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING GROUND CONFIGURATION AND INFORM HIMSELF/HERSELF OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION AND SHALL CONTACT ALL APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR PURPOSES OF LOCATING EXISTING STRUCTURES, PIPELINES, UTILITIES, ETC. WITHIN THE PROJECT SITE.
8) ALL BUILDING/CONSTRUCTION MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED. ALL MATERIAL AND EQUIPMENT SELECTIONS SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.
9) FORCEMAIN SIZING/LOCATIONS TO BE DETERMINED BY OWNER. FORCEMAIN SYSTEM SHALL BE EQUIPPED WITH FLOW METER AND ADEQUATE SAMPLING POINT SHALL BE PROVIDED PER PROVISIONS IN PERMIT.
10) THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES, PIPING, CONDUIT OR EQUIPMENT.
11) ALL DIMENSIONS AND LOCATIONS ARE TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
12) THESE DRAWINGS SUPPLY GENERAL INFORMATION AND GUIDANCE FOR THE LAYOUT AND CONSTRUCTION OF EVAPORATION POND #2. ALL OTHER CONSTRUCTION DETAILS ARE TO BE DECIDED UPON BY THE CONTRACTOR AND OWNER.
13) IT IS INTENDED THAT THE DESIGN/CONSTRUCTION OF ALL COMPONENTS SHALL BE PERFORMED BY LICENSED PROFESSIONALS IN THESE AREAS OF EXPERTISE FOLLOWING ALL ALL APPLICABLE CODES.
14) PROVIDE PROPER CONSTRUCTION AND WORKMANSHIP TO INSURE NECESSARY SLOPES FOR DRAINAGE. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO MAKE ANY NECESSARY FIELD MODIFICATIONS TO INSURE DRAINAGE.
15) OUTSIDE SIDESLOPES AND DITCHES SHALL BE STABILIZED WITH VEGETATION TO PREVENT EROSION.
16) ANY WASTE DIRT (LEFT OVER), IF ANY, WILL BE PLACED PER OWNER/ENGINEER AND GRADED TO A FINISHED APPEARANCE.
17) TOPSOIL STRIPPED FROM THE POND SITE SHALL BE STOCKPILED ON-SITE FOR COVERING THE OUTSIDE OF THE BERMS.
18) THE BENCHMARKS SHOWN ON DRAWING ARE ENVIRO-AG ENGINEERING SURVEY DATA. THE ELEVATIONS SHOWN INDICATE TOP OF REBAR AT SPECIFIED LOCATION.

BENCHMARK INFORMATION			
BM	NORTHING	EASTING	ELEVATION
#1	4133928.18	825641.96	2988.03'
#2	4134176.91	825386.67	2987.47'
#3	4133794.86	825455.99	2989.51'

SEABOARD FOODS LLC – PERRYTON FEEDMILL – EVAPORATION POND #2 CONSTRUCTION
PERRYTON, OCHILTREE COUNTY, TEXAS
BID SCHEDULE

A) TOTAL CUT VOLUME
EARTHWORK REQUIRED FOR PROPOSED DESIGN AS SHOWN (INCLUDES UNDERCUT FOR CLAY LINER PER SPECS) . . . . . 45,644 BCY

B) LEFTOVER
LEFTOVER EARTHWORK MATERIAL . . . . . 23,218 CY

C) CLAY LINER INSTALLATION
INSTALL CLAY LINER MATERIAL PER ENGINEER'S LINER SPECIFICATIONS . . . . . 20,216 CCY

D) CONCRETE SLOPE PROTECTION
INSTALL 6-IN THICK REINFORCED CONCRETE WITH 8-IN CURB AT INLET PIPE LOCATION . . . . . 255 SF
INSTALL 6-IN THICK REINFORCED CONCRETE WITH 8-IN CURB AT SPILLWAY LOCATION . . . . . 230 SF

E) CONCRETE SPILLWAY PROTECTION
INSTALL 6-IN THICK REINFORCED CONCRETE IN SPILLWAY AT INLET PIPE LOCATION . . . . . 715 SF

NOTE: ANY/ALL WORK SHOWN IN PLANS AND SPECIFICATIONS, HOWEVER, NOT QUANTIFIED IN THE ABOVE BID SCHEDULE SHALL BE CONSIDERED SUBSIDIARY TO THE LINE ITEMS ABOVE. CONTRACTOR SHALL MAKE APPROPRIATE ADJUSTMENTS TO HIS/HER BID TO ACCOUNT FOR SUBSIDIARY WORK.

TBPE FIRM NO. 2507

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED
PROFESSIONAL ENGINEER
05-13-2024

PROJECT:
SEABOARD FOODS LLC – PERRYTON FEEDMILL
EVAP. POND #2 – EARTHWORK CONSTRUCTION PLANS
PERRYTON, OCHILTREE COUNTY, TEXAS

SHEET DESCRIPTION:
EVAPORATION POND #2
SITE PLAN AND GENERAL NOTES

ENVIRO-AG ENGINEERING, INC.
ENGINEERING CONSULTANTS
3404 Airway Blvd.
Amarillo, Texas
79118
TEL (806) 353-6123
FAX (806) 353-4132

DRAWN BY:	DATE
JBW	05/08/24
CHECKED BY ENGINEER:	DATE
NHM	05/10/24

PROFILE SCALE:
HORIZONTAL N/A
VERTICAL N/A

DWG PROJECT NAME: SEABOARD FOODS LLC – PERRYTON FEEDMILL EVAP. POND 2024
DWG FILE NAME: ...\Seaboard Foods\TX\Perryton Feedmill\Engineering\Evap Pond 2024\...

9	8	7	6	5	4	3	2	1	SHEET

REVISION STATUS OF SHEETS: – – – – – – – – – REV

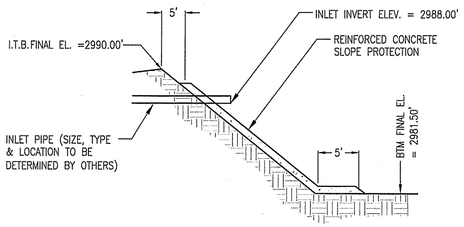
SCALE: AS SHOWN
DWG SIZE: D
SHEET 1 OF 3

DWG SEABOARD FOODS LLC – PERRYTON FEEDMILL
SITE PLAN AND GENERAL NOTES

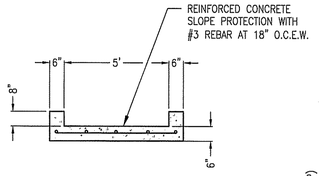
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	–	INITIAL RELEASE	05/07/24	

EVAPORATION POND #2 DESIGN DATA

INSIDE TOP OF BERM ELEVATION	2990.00'
HIGH WATER LEVEL ELEVATION	2988.00'
BOTTOM FINAL ELEVATION	2981.50'
SURFACE AREA AT I.T.B.	4.14 ACRES
CAPACITY AT H.W.L.	20.03 AC–FT

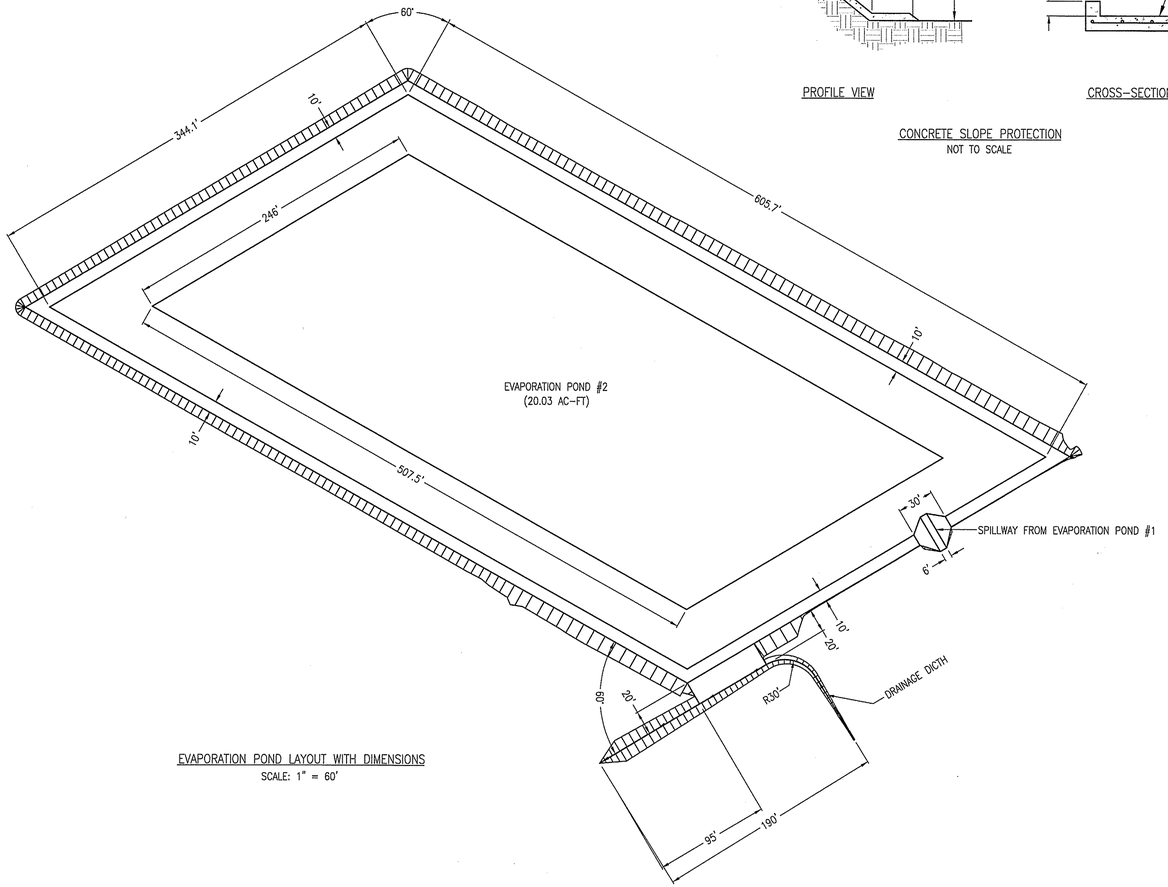


PROFILE VIEW

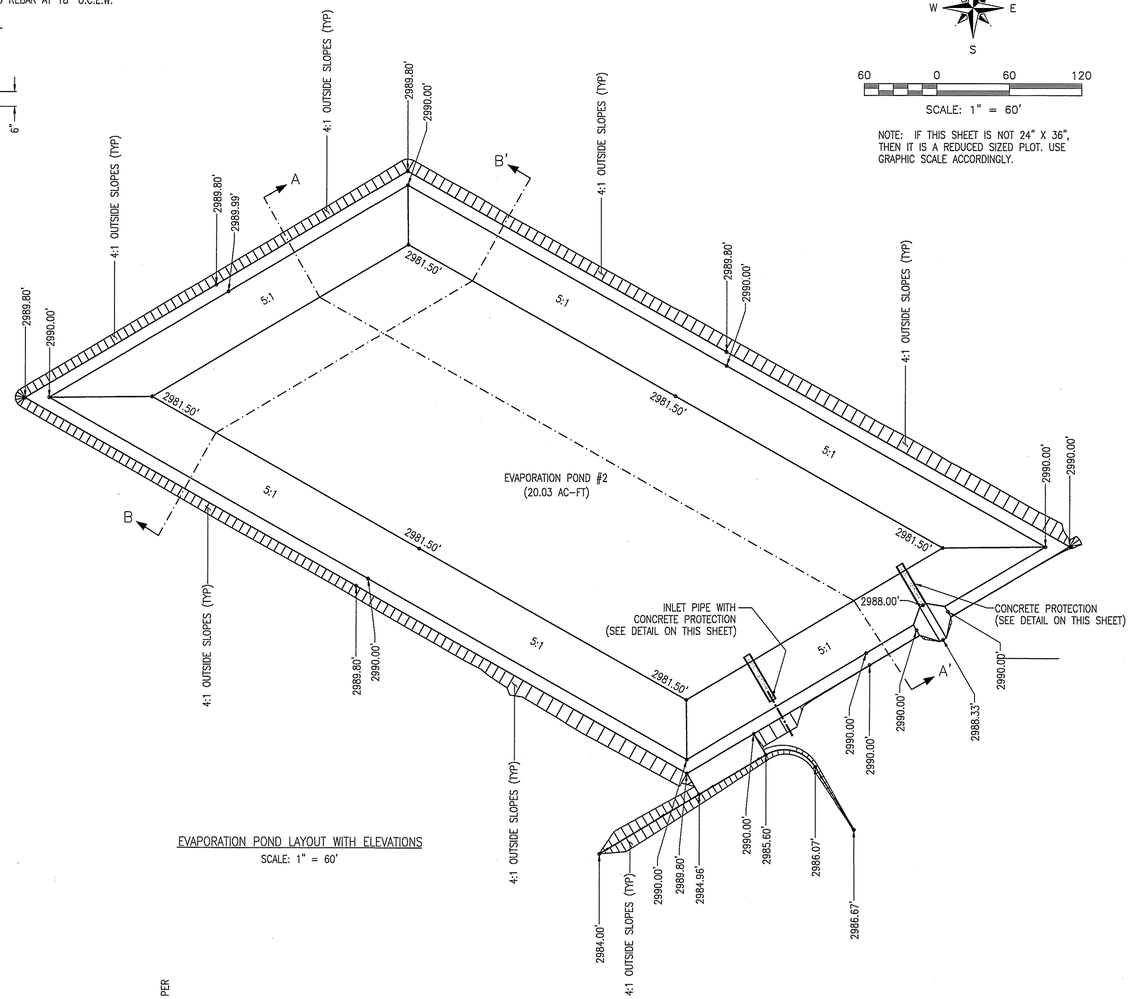


CROSS–SECTION VIEW

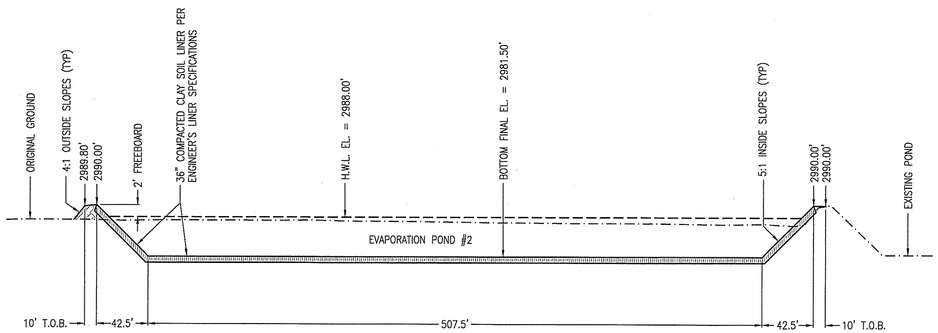
CONCRETE SLOPE PROTECTION
NOT TO SCALE



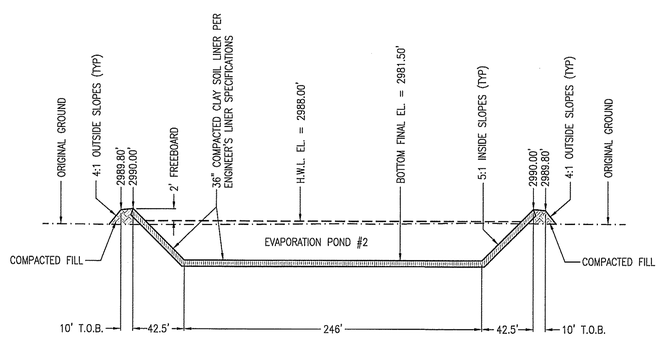
EVAPORATION POND LAYOUT WITH DIMENSIONS
SCALE: 1" = 60'



EVAPORATION POND LAYOUT WITH ELEVATIONS
SCALE: 1" = 60'



CROSS–SECTION A – A'
NOT TO SCALE



CROSS–SECTION B – B'
NOT TO SCALE

N
W E
S

60 0 60 120
SCALE: 1" = 60'

NOTE: IF THIS SHEET IS NOT 24" X 36", THEN IT IS A REDUCED SIZED PLOT. USE GRAPHIC SCALE ACCORDINGLY.

NOTES:
1) ALL ELEVATIONS ARE FINAL EARTHWORK ELEVATIONS.

2) ALL OUTSIDE CUT/FILL SLOPES ARE 4:1. INSIDE SLOPES OF EVAPORATION POND #2 ARE 5:1.

3) OUTSIDE SLOPES SHALL BE STABILIZED WITH VEGETATION TO PREVENT EROSION.

4) THE DIMENSIONS SHOWN ON THESE PLANS SHALL TAKE PRECEDENCE OVER THE SCALE SHOWN.

5) PROPOSED EVAPORATION POND #2 TO HAVE 6" IN–SITU SOIL TO BE USED AS THE FIRST LINER LIFT. THE REMAINING FIVE LINER LIFTS WILL BE STOCKPILED THEN PLACED BACK INTO THE POND PER THE ENGINEER'S SOIL LINER SPECIFICATIONS. THE FINAL COMPACTED THICKNESS OF THE SOIL LINER WILL BE 36–INCHES (3–FT).

6) BENCHMARK COORDINATES/ELEVATIONS SHOWN ON SHEET 1.

TBPE FIRM NO. 2507

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED PROFESSIONAL ENGINEER
05-13-2024

DWG SEABOARD FOODS LLC – PERRYTON FEEDMILL
DIMENSION AND ELEVATION PLAN

PROJECT:
SEABOARD FOODS LLC
PERRYTON FEEDMILL
PERRYTON, OCHILTREE COUNTY, TEXAS

ENVIRO–AG ENGINEERING, INC.
ENGINEERING CONSULTANTS
3404 Airway Blvd.
Amarillo, Texas
79118
TEL (806) 353–6123
FAX (806) 353–4132

SHEET DESCRIPTION:
EVAPORATION POND #2
DIMENSION AND ELEVATION PLAN

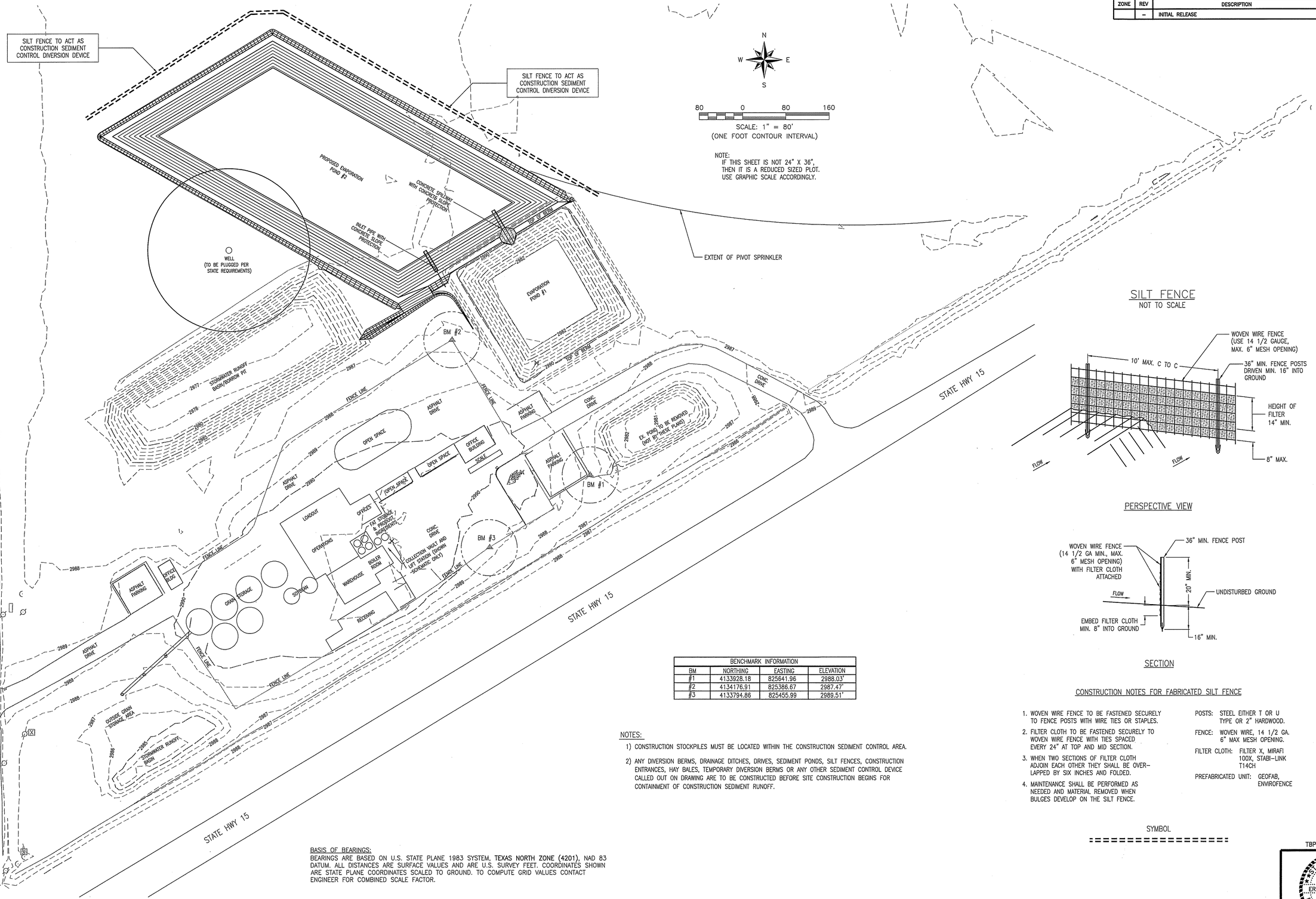
SCALE: AS SHOWN
PROFILE SCALE:
HORIZONTAL
N/A
VERTICAL
N/A

USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTION ON THE FIRST SHEET OF THIS DOCUMENT.

REV –

DWG. SIZE: D

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	–	INITIAL RELEASE	05/07/24	



NOTE:
IF THIS SHEET IS NOT 24" X 36", THEN IT IS A REDUCED SIZED PLOT. USE GRAPHIC SCALE ACCORDINGLY.

BENCHMARK INFORMATION			
BM	NORTHING	EASTING	ELEVATION
#1	4133928.18	825641.96	2988.03'
#2	4134176.91	825386.67	2987.47'
#3	4133794.86	825455.99	2989.51'

NOTES:

1) CONSTRUCTION STOCKPILES MUST BE LOCATED WITHIN THE CONSTRUCTION SEDIMENT CONTROL AREA.

2) ANY DIVERSION BERMS, DRAINAGE DITCHES, DRIVES, SEDIMENT PONDS, SILT FENCES, CONSTRUCTION ENTRANCES, HAY BALES, TEMPORARY DIVERSION BERMS OR ANY OTHER SEDIMENT CONTROL DEVICE CALLED OUT ON DRAWING ARE TO BE CONSTRUCTED BEFORE SITE CONSTRUCTION BEGINS FOR CONTAINMENT OF CONSTRUCTION SEDIMENT RUNOFF.

BASIS OF BEARINGS:
BEARINGS ARE BASED ON U.S. STATE PLANE 1983 SYSTEM, TEXAS NORTH ZONE (4201), NAD 83 DATUM. ALL DISTANCES ARE SURFACE VALUES AND ARE U.S. SURVEY FEET. COORDINATES SHOWN ARE STATE PLANE COORDINATES SCALED TO GROUND. TO COMPUTE GRID VALUES CONTACT ENGINEER FOR COMBINED SCALE FACTOR.

SILT FENCE
NOT TO SCALE

PERSPECTIVE VIEW

SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP ON THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.

FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX MESH OPENING.

FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINK T14CH

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE

SYMBOL

TBPE FIRM NO. 2507

STATE OF TEXAS
ERICK Y. EMERINE
103494
LICENSED PROFESSIONAL ENGINEER
05-13-2024

DWG SEABOARD FOODS LLC – PERRYTON FEEDMILL
SEDIMENT CONTROL PLAN

PROJECT:
SEABOARD FOODS LLC
PERRYTON FEEDMILL
PERRYTON, OCHILTREE COUNTY, TEXAS

ENVIRO-AG ENGINEERING, INC.
ENGINEERING CONSULTANTS
3404 Airway Blvd.
Amarillo, Texas
79118
TEL (806) 353-6123
FAX (806) 353-4132

SHEET DESCRIPTION:
EVAPORATION POND #2
SEDIMENT CONTROL PLAN

SCALE: AS SHOWN
PROFILE SCALE:
HORIZONTAL N/A
VERTICAL N/A

REV –

DWG. SIZE: D SHEET 3 OF 3

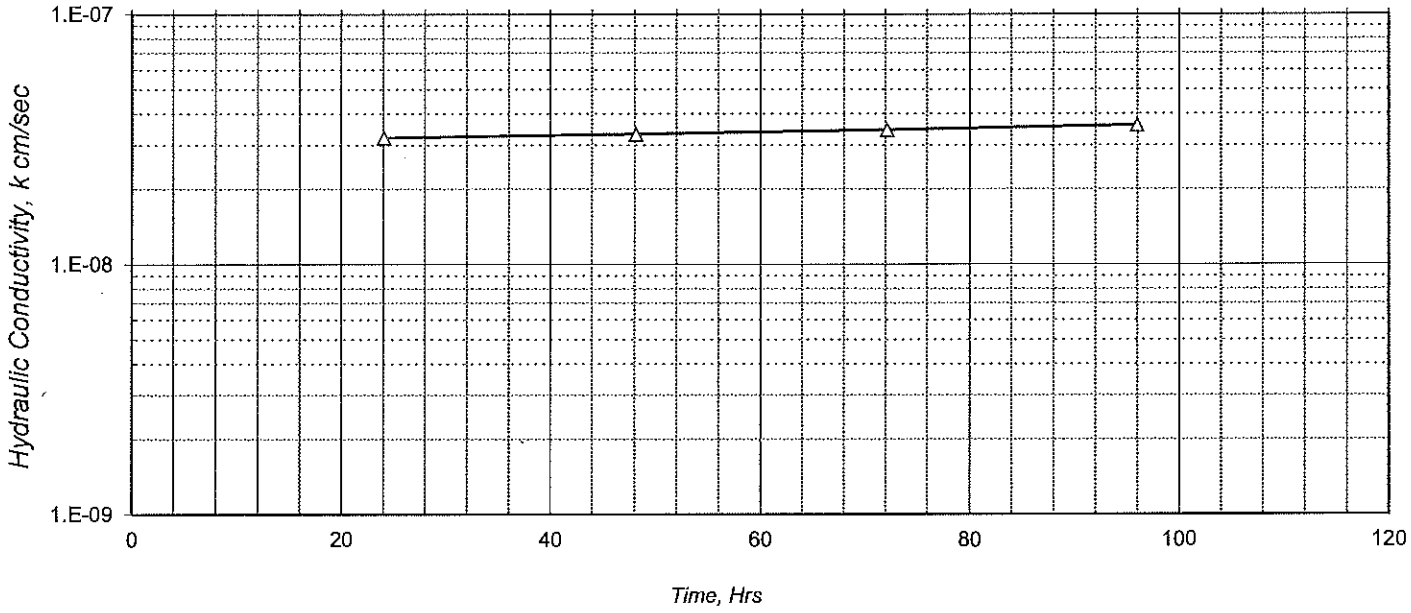
Enviro-Ag Engineering, Inc.
3404 Airway Blvd., Amarillo, TX 79118 (806) 353-6123
LABORATORY SERVICES

HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard - Perryton Feedmill	17-02-08	4186
Sample ID:	**Sample Location:**	**Report Date:**
1	#1	February 20, 2017

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	1	
DESCRIPTION:	#1	
	INITIAL	FINAL
HEIGHT, in.	3.0	3.0
DIAMETER, in.	2.8	2.9
WATER CONTENT, %	34.0	40.5
DRY DENSITY, pcf	84	80
SATURATION, %	90	99
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Dark Brown	
SAMPLE CONSISTENCY	Clay	

COMMENTS:
Tap water used as permeant.

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	3 - 3
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.1	3.2E-08
2	48.1	3.3E-08
3	72.2	3.5E-08
4	96.0	3.6E-08

AVERAGE LAST 4 : **3.4E-08**

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO · STEPHENVILLE· ARTESIA

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

CERTIFICATION

Seaboard Foods LLC – Perryton Feed Mill
Perryton, Ochiltree County, TX

Capacity Certification – Evaporation Pond #1

An as-built survey was conducted by Enviro-Ag Engineering, Inc. on 11/27/2018 to determine the total capacity of Evaporation Pond #1. The capacity with two vertical feet of dry freeboard was calculated to be:

Structure	**Capacity**
Evaporation Pond #1	4.90 acre-feet @ High Water Level

The calculated capacity of 4.90 ac-ft exceeds the capacity as required per the permit.

Respectfully submitted,

12-18-2018

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED
PROFESSIONAL ENGINEER

Erick Emerine, P.E. – License No. 103494
Enviro-Ag Engineering, Inc. – Firm No. 2507

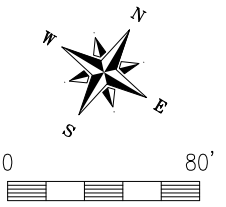
Attachments: As-Built Plan and Profile
As-Built Stage-Storage Table

Seaboard Foods, Perryton Feedmill – Perryton, TX – 11/28/2018

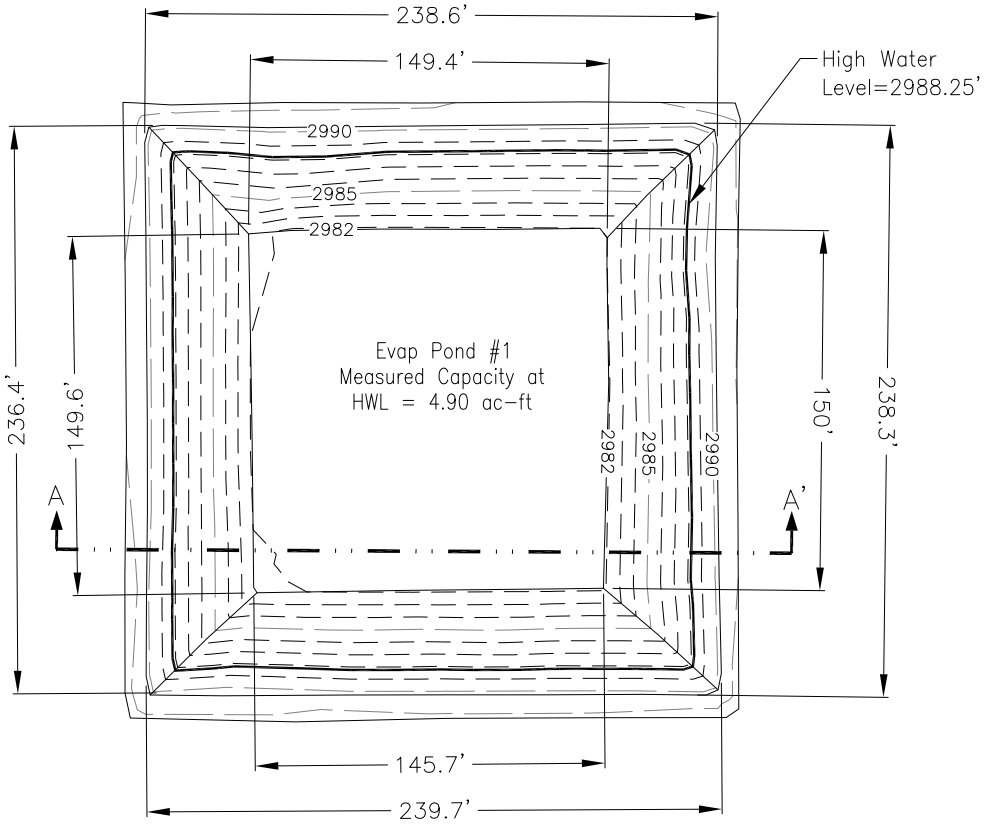
Evaporation Pond #1 Volume Data
Date Surveyed: 11/27/2018
Surveyed By: EE
Drawn By: EE

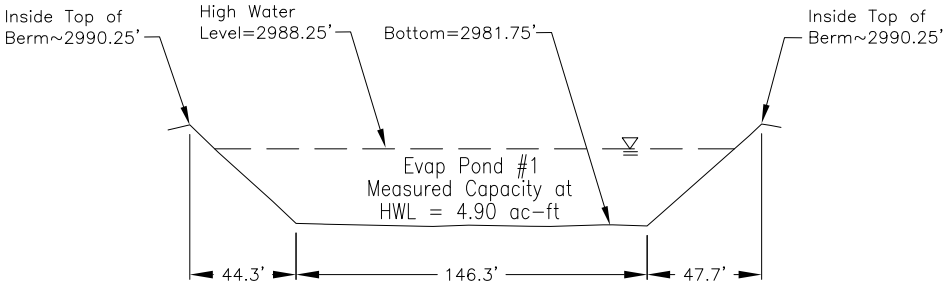
Bottom Elevation	2981.75'
H.W.L. Elevation w/ 2' Freeboard	2988.25'
Capacity at H.W.L.	4.90 Ac–Ft
Surface Area at H.W.L.	1.07 Acres

Note:
Dimensions rounded to the nearest tenth of a foot.



Scale: 1" = 80'
(One Foot Contour Interval)





Cross Section A–A'
NTS

Seaboard Foods Perryton Feedmill Perryton, Ochiltree County, TX	Evap Pond #1 As-Built Capacity Drawing Plan & Profile	ENVIRO–AG ENGINEERING, INC. Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

Water Level Elevation	Water Depth (Ft)	Cumulative Volume	Gallons by Foot
2988.25	6.5'	4.90 Ac-Ft	169,707 Gal.
2987.75	6'	4.38 Ac-Ft	314,734 Gal.
2986.75	5'	3.41 Ac-Ft	283,229 Gal.
2985.75	4'	2.54 Ac-Ft	253,520 Gal.
2984.75	3'	1.76 Ac-Ft	225,468 Gal.
2983.75	2'	1.07 Ac-Ft	199,032 Gal.
2982.75	1'	0.46 Ac-Ft	150,581 Gal.
2981.75	0	0 Ac-Ft	0 Gal.

Seaboard Foods
Perryton Feedmill
Perryton, Ochiltree County, TX

Evap Pond #1
As-Built Capacity Drawing
Plan & Profile

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

ENVIRO-AG ENGINEERING, INC.
EAE
AMARILLO · STEPHENVILLE· ARTESIA

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

SOIL LINER CERTIFICATION

Seaboard Foods LLC – Perryton Feed Mill
Perryton, Ochiltree County, TX

Soil Liner Certification – Evaporation Pond #1

Six 3-inch Shelby tube core samples were collected from Evaporation Pond #1 to document that the liner meets the requirements of the TCEQ for soil liner. The liner thickness was documented to be at least 36 inches.

The hydraulic conductivity of the clay soil liner is documented as follows:

- Evap Pond #1-1 (Lab #4755) 2.0×10^{-8} cm/sec
- Evap Pond #1-2 (Lab #4756) 3.6×10^{-8} cm/sec
- Evap Pond #1-3 (Lab #4757) 2.7×10^{-8} cm/sec
- Evap Pond #1-4 (Lab #4758) 1.9×10^{-8} cm/sec
- Evap Pond #1-5 (Lab #4759) 3.6×10^{-8} cm/sec
- Evap Pond #1-6 (Lab #4760) 1.9×10^{-8} cm/sec

Based on the above documentation, the liner in Evaporation Pond #1 is determined to be in accordance with TCEQ requirements for soil liners. The test locations were backfilled with bentonite chips. The test results meet the requirements of the TCEQ for hydraulic conductivity considered protective of ground and surface water sources.

Respectfully submitted,

12-18-2018

STATE OF TEXAS
ERICK V. EMERINE
103494
LICENSED
PROFESSIONAL ENGINEER

Erick Emerine, P.E. – License No. 103494
Enviro-Ag Engineering, Inc. – Firm No. 2507

Attachments: EAE Permeability Lab Reports
Envirotech Moisture Density Testing Reports

CALCULATION OF SPECIFIC DISCHARGE

SITE: **Seaboard Foods LLC - Perryton Feed Mill**
LOCATION: **Ochiltree County, TX**
STRUCTURE: **Evaporation Pond #1**

ENGINEER: **EVE**
DATE: **Dec. 2018**

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 liner is 1.1 x E-06 cm/sec or 0.0374 in/day.

	Hydraulic Conductivity Results of Core Samples								
Laboratory Sample I.D.	4755	4756	4757	4758	4759	4760			
1. Water Depth, feet	6.5	6.5	6.5	6.5	6.5	6.5			
2. Liner Thickness, inches	36.0	36.0	36.0	36.0	36.0	36.0			
3. Hydraulic Conductivity, cm/sec	2.00E-08	3.60E-08	2.70E-08	1.90E-08	3.60E-08	1.90E-08			
4. Calculated specific discharge, v'									
Seepage Rate, inches/day	0.0022	0.0039	0.0029	0.0020	0.0039	0.0020			
Maximum Seepage Rate, inches/day	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374			

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:

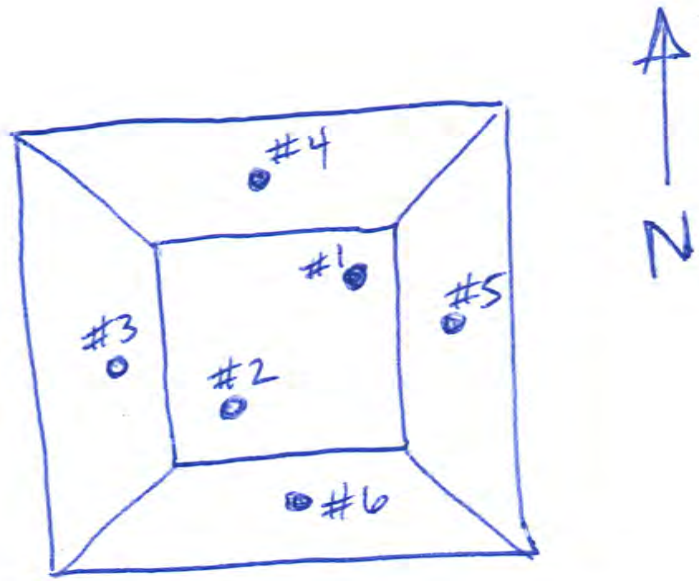
$$v' = k (H + d) / d$$

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).

12-18-2018
F#2507

TRIAXIAL PERMEABILITY CHAIN of CUSTODY



STRUCTURE	PERM REPORT I.D.	LAB LOG
1 NE Bottom		4755
2 SW Bottom		4756
3 W-Wall		4757
4 N-Wall		4758
5 E-Wall		4759
6 S-Wall		4760

Facility Name: SEABOARD PERRYTON FEEDMILL - EVAP POND

Project Engineer: ERICK EMERINE

Sampled by: ERICK EMERINE

Date Sampled: 11-27-2018

Date to Lab: 11-27-2018 Received:

ENVIRO-AG ENGINEERING, INC.

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

Enviro-Ag Engineering, Inc.

3404 Airway Blvd., Amarillo, TX 79118 (806) 353-6123
LABORATORY SERVICES

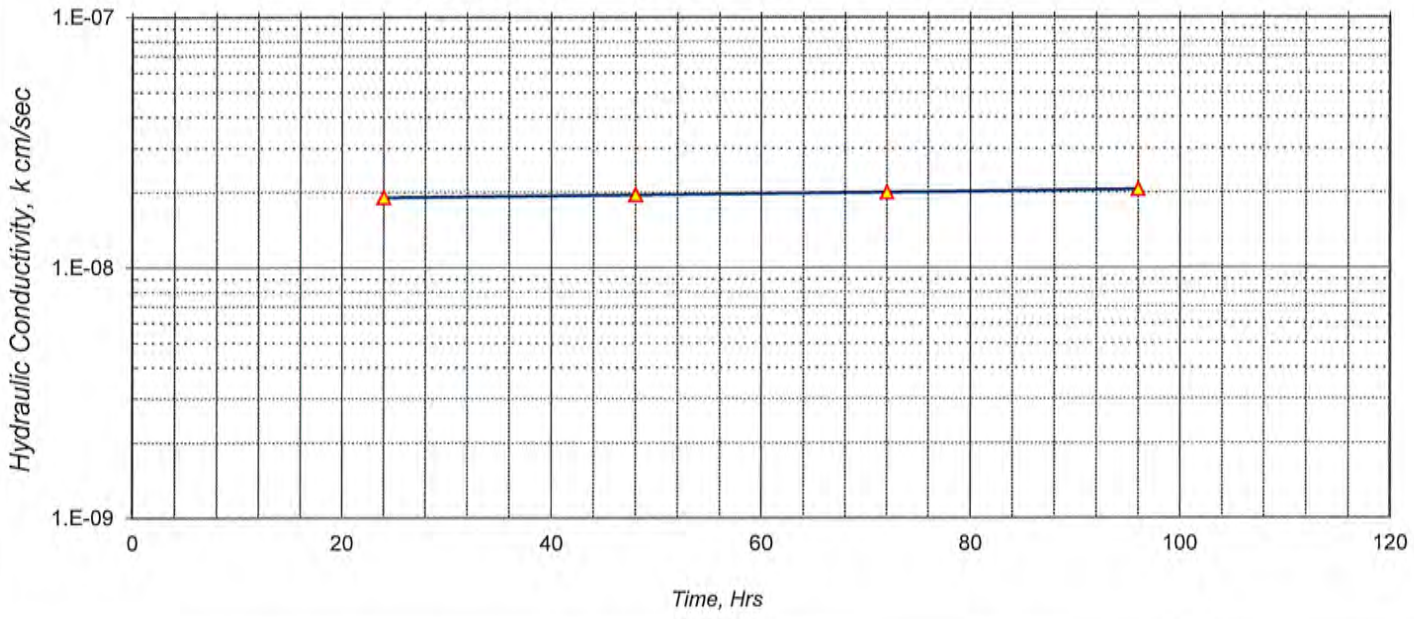
EAE

HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4755
Sample ID:	**Sample Location:**	**Report Date:**
1	1 NE Bottom	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	1
DESCRIPTION:	1 NE Bottom

	INITIAL	FINAL
HEIGHT, in.	2.6	2.6
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	14.5	35.6
DRY DENSITY, pcf	88	87
SATURATION, %	43	102
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	2 - 3
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	1.9E-08
2	48.0	2.0E-08
3	72.0	2.0E-08
4	96.0	2.1E-08

AVERAGE LAST 4 : **2.0E-08**

COMMENTS:
Tap water used as permeant.

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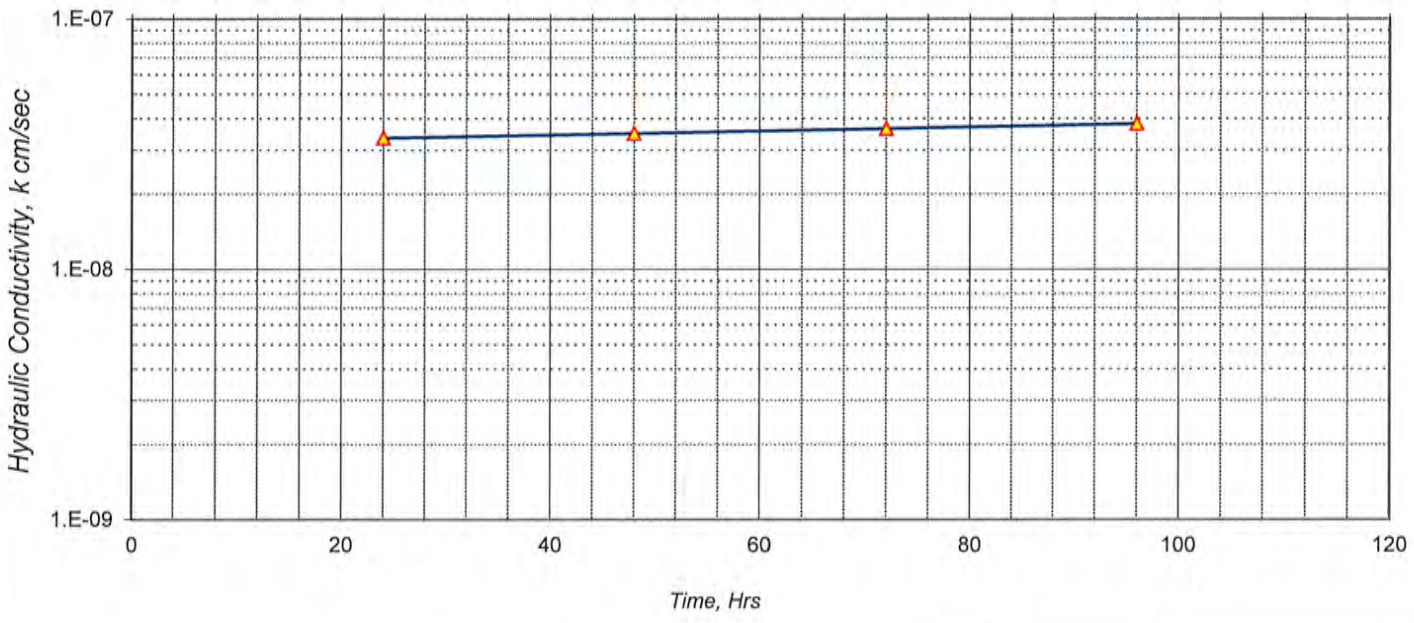
LABORATORY SERVICES

HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4756
Sample ID:	**Sample Location:**	**Report Date:**
2	2 SW Bottom	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	2	
DESCRIPTION:	2 SW Bottom	
	INITIAL	FINAL
HEIGHT, in.	2.6	2.6
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	15.1	29.1
DRY DENSITY, pcf	96	94
SATURATION, %	54	99
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	2 - 2
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	3.3E-08
2	48.0	3.5E-08
3	72.0	3.6E-08
4	96.0	3.8E-08

AVERAGE LAST 4 : **3.6E-08**

COMMENTS:

Tap water used as permeant.

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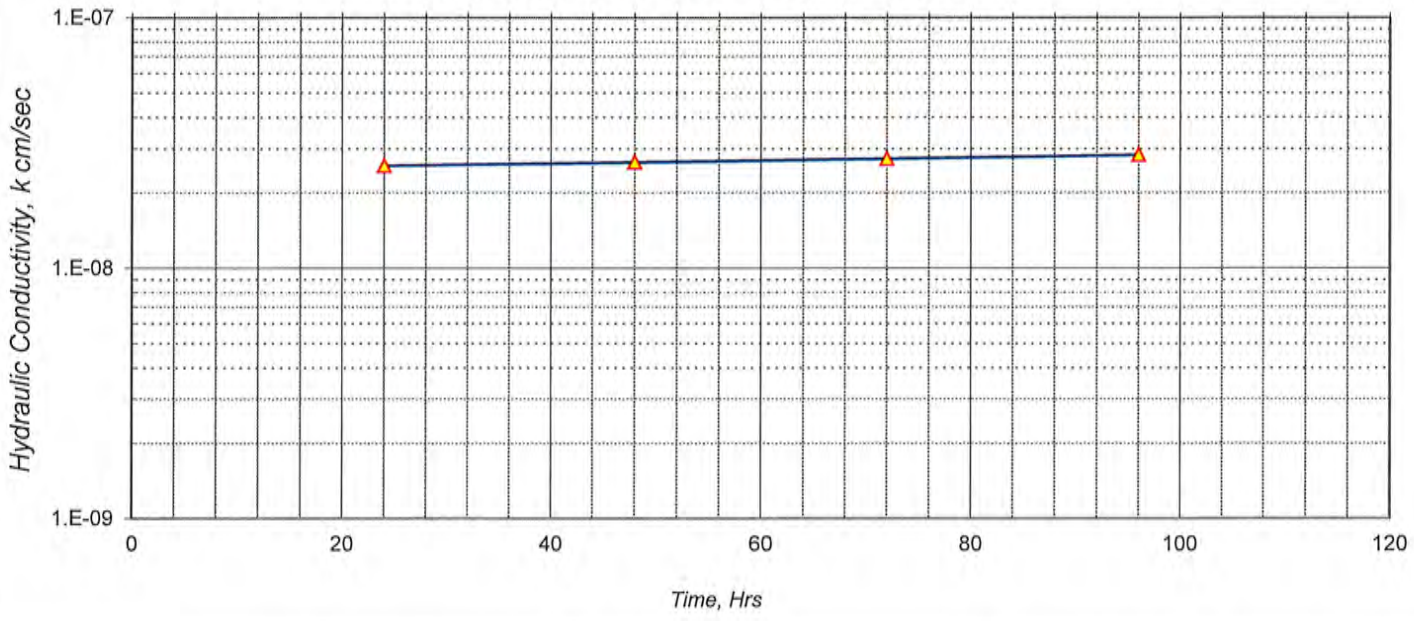
HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4757
Sample ID:	**Sample Location:**	**Report Date:**
3	3 W Wall	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	3	
DESCRIPTION:	3 W Wall	
	INITIAL	FINAL
HEIGHT, in.	2.6	2.6
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	15.0	20.1
DRY DENSITY, pcf	114	111
SATURATION, %	84	105
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

COMMENTS:
Tap water used as permeant.

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	2 - 3
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	2.6E-08
2	48.0	2.6E-08
3	72.0	2.7E-08
4	96.0	2.8E-08

AVERAGE LAST 4 : **2.7E-08**

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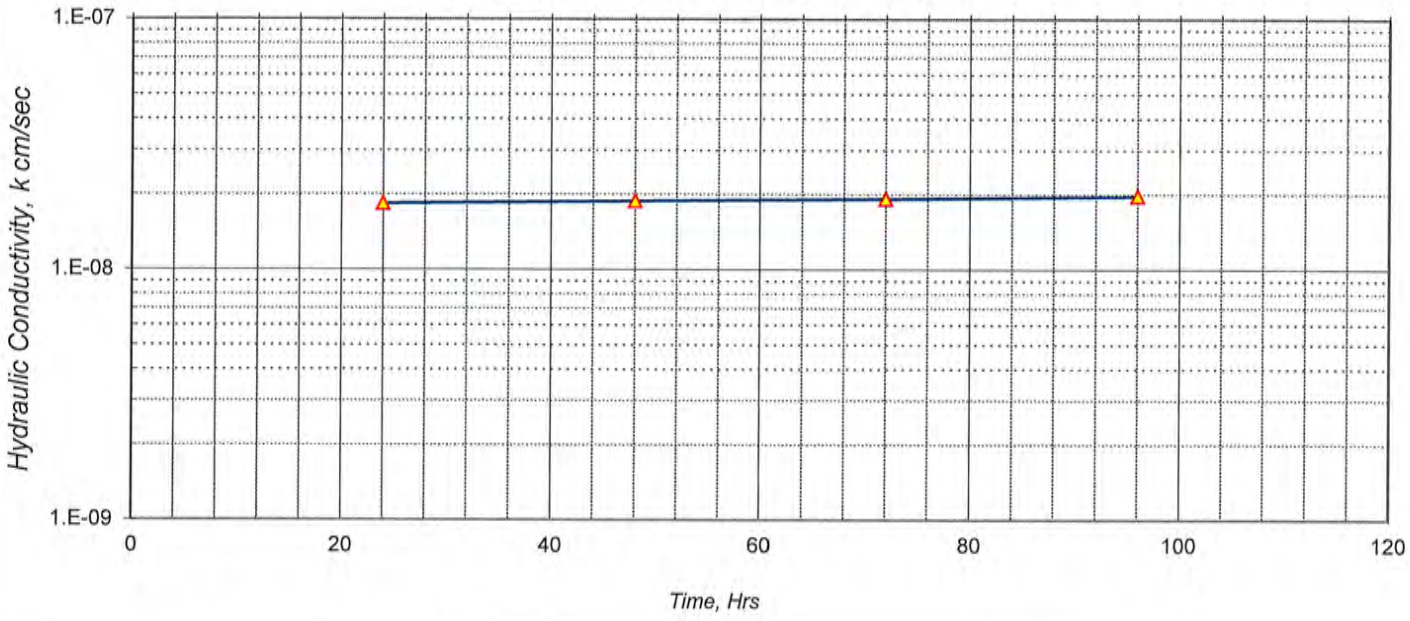
HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4758
Sample ID:	**Sample Location:**	**Report Date:**
4	4 N Wall	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	4	
DESCRIPTION:	4 N Wall	
	INITIAL	FINAL
HEIGHT, in.	2.6	2.6
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	14.5	23.5
DRY DENSITY, pcf	107	105
SATURATION, %	69	105
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	3 - 3
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	1.8E-08
2	48.0	1.9E-08
3	72.0	1.9E-08
4	96.0	2.0E-08

AVERAGE LAST 4 : **1.9E-08**

COMMENTS:
Tap water used as permeant.

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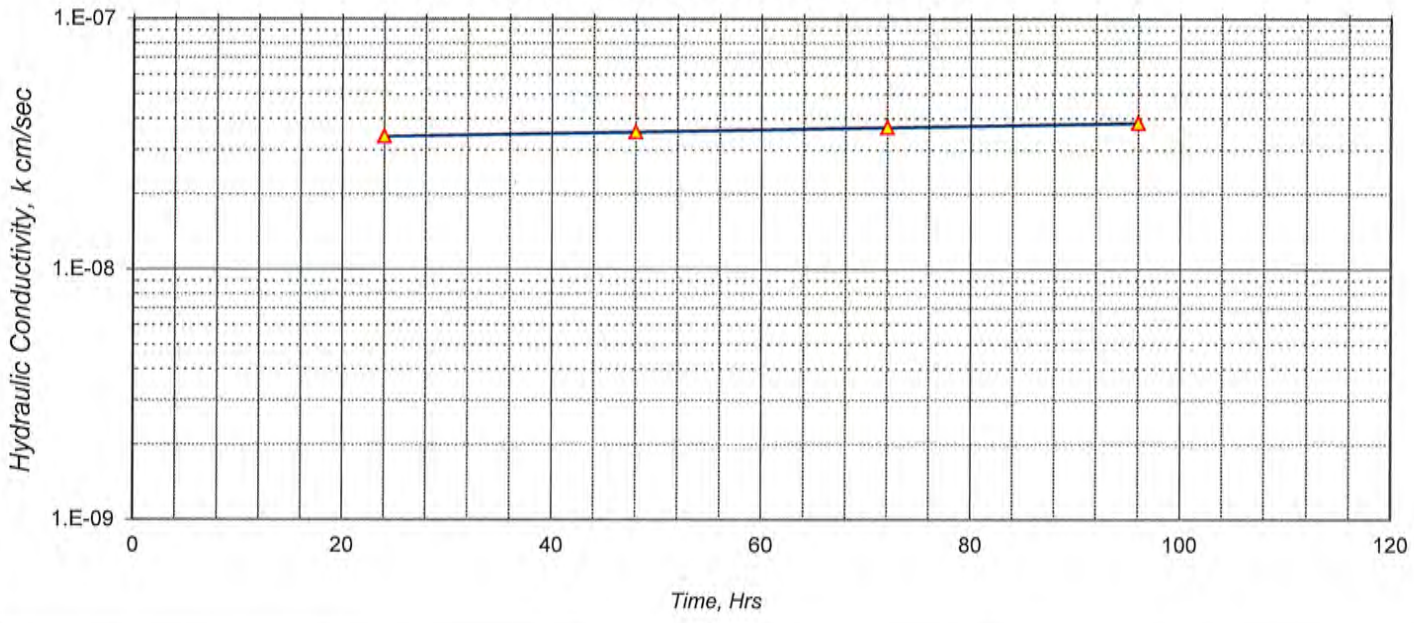
HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4759
Sample ID:	**Sample Location:**	**Report Date:**
5	5 E Wall	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	5	
DESCRIPTION:	5 E Wall	
	INITIAL	FINAL
HEIGHT, in.	2.9	2.9
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	14.9	20.0
DRY DENSITY, pcf	112	111
SATURATION, %	80	103
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

TEST DATA

ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	2 - 2
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	3.4E-08
2	48.0	3.5E-08
3	72.0	3.7E-08
4	96.0	3.8E-08

AVERAGE LAST 4 : **3.6E-08**

COMMENTS:
Tap water used as permeant.

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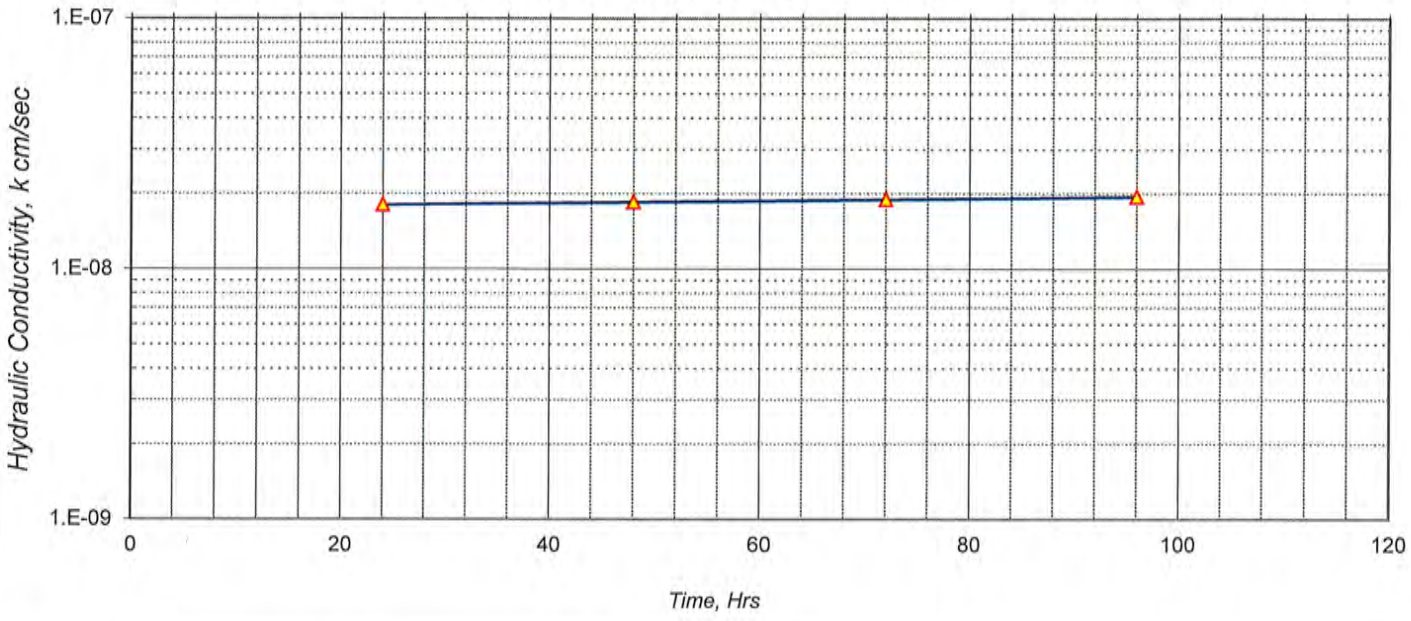
HYDRAULIC CONDUCTIVITY REPORT

ASTM D-5084, Method C

Client / Project Name:	Project No:	Lab Sample Number:
Seaboard Perrytoon Evap Pond	18/19/11	4760
Sample ID:	**Sample Location:**	**Report Date:**
6	6 S Wall	November 19, 2018

Hydraulic Conductivity vs Time



SPECIMEN DATA

SAMPLE ID:	6
DESCRIPTION:	6 S Wall

	INITIAL	FINAL
HEIGHT, in.	2.4	2.4
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	17.8	20.7
DRY DENSITY, pcf	110	108
SATURATION, %	90	100
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

TEST DATA

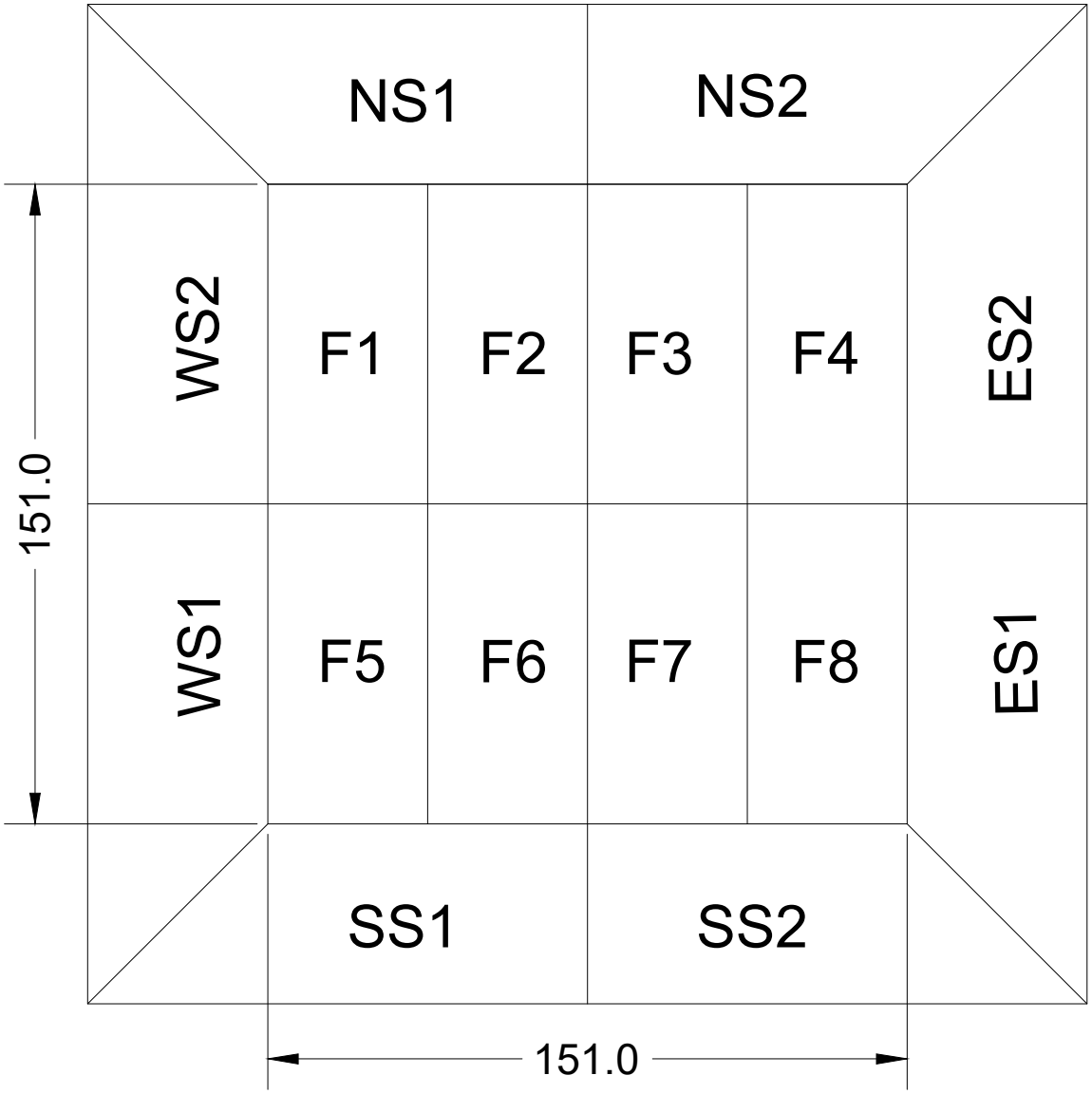
ASTM D-5084, Method C

EFFECTIVE STRESS:	5 psi
GRADIENT RANGE:	3 - 3
IN / OUT RATIO:	1.00

TRIAL nos.	TIME hrs.	HYDRAULIC CONDUCTIVITY cm / sec
1	24.0	1.8E-08
2	48.0	1.8E-08
3	72.0	1.9E-08
4	96.0	1.9E-08

AVERAGE LAST 4 : **1.9E-08**

COMMENTS:
Tap water used as permeant.



NORTH

Scale: N.T.S.

SEABOARD foods

Moisture Density Testing

Testing Grid 18334-00

Seaboard Perryton Evaporation Pond

Ochiltree County, Texas

ENVIROTECH ENGINEERING & CONSULTING, INC.

2500 North 11th Street -, Enid, Oklahoma 73701
Phone (580) 234-8780, Fax (580) 237-4302
C.A. #1960 - Expiration Data: 6-30-2016
www.envirotechconsulting.com

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	9/7/2018
Troxler Model:	3430		
Moist Std:	553	Density Std:	1999
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	
Max Dry Density (pcf):	
Optimum Moisture (%):	
Visual Description:	

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
1	Grid NS1	Onsite Fill	1	15:30	ZB	6	114.0	19.8%	97.6%	95.2	Pass*
2	Grid NS2	Onsite Fill	1	15:40	ZB	6	119.8	21.7%	101.0%	98.4	PASS
3	Grid ES2	Onsite Fill	1	15:50	ZB	6	117.8	19.8%	100.9%	98.3	Pass*
4	Grid ES1	Onsite Fill	1	16:00	ZB	6	118.9	22.9%	99.2%	96.7	PASS
5	Grid SS2	Onsite Fill	1	16:07	ZB	6	120.4	20.2%	102.7%	100.2	Pass*
6	Grid SS1	Onsite Fill	1	16:12	ZB	6	120.1	20.4%	102.3%	99.8	Pass*
7	Grid WS1	Onsite Fill	1	16:16	ZB	6	116.7	22.8%	97.5%	95.0	PASS
8	Grid WS2	Onsite Fill	1	16:20	ZB	6	118.3	22.4%	99.1%	96.7	PASS
	* These tests were approved by Tyler Williams, PE with Envirotech prior to receiving the plans with the correct moisture requirements. All future tests will be held to the appropriate moisture requirements.										

Envirotech Engineering & Consulting. Inc

9/10/2018
Date

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	9/10/2018
Troxler Model:	3430		
Moist Std:	585	Density Std:	1981
Moist offset:	N/A	Density offset:	N/A

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	
Max Dry Density (pcf):	
Optimum Moisture (%):	
Visual Description:	

Allowable Moisture Range: Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor: 95%

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
9	Grid NS1	Onsite Fill	2	16:10	ZB	12	126.1	21.0%	106.9%	104.2	PASS
10	Grid NS2	Onsite Fill	2	16:20	ZB	12	125.2	23.9%	103.6%	101.0	PASS
11	Grid ES2	Onsite Fill	2	16:35	ZB	12	122.9	21.2%	104.0%	101.4	PASS
12	Grid ES1	Onsite Fill	2	16:55	ZB	12	124.6	21.5%	105.2%	102.6	PASS
13	Grid SS2	Onsite Fill	2	17:20	ZB	12	120.9	21.9%	101.7%	99.2	PASS
14	Grid SS1	Onsite Fill	2	17:30	ZB	12	126.7	21.3%	107.1%	104.5	PASS
15	Grid WS1	Onsite Fill	2	17:40	ZB	12	120.3	22.4%	100.8%	98.3	PASS
16	Grid WS2	Onsite Fill	2	17:50	ZB	12	122.8	21.3%	103.8%	101.2	PASS
17	Grid NS1	Onsite Fill	3	16:15	ZB	6	127.0	21.1%	107.6%	104.9	PASS
18	Grid NS2	Onsite Fill	3	16:25	ZB	6	126.0	22.9%	105.2%	102.5	PASS
19	Grid ES2	Onsite Fill	3	16:45	ZB	6	121.0	21.7%	102.0%	99.4	PASS
20	Grid ES1	Onsite Fill	3	17:00	ZB	6	124.6	21.7%	105.0%	102.4	PASS
21	Grid SS2	Onsite Fill	3	17:10	ZB	6	122.9	22.9%	102.6%	100.0	PASS
22	Grid SS1	Onsite Fill	3	17:35	ZB	6	124.5	23.3%	103.6%	101.0	PASS
23	Grid WS1	Onsite Fill	3	17:45	ZB	6	119.3	21.8%	100.5%	97.9	PASS
24	Grid WS2	Onsite Fill	3	17:55	ZB	6	121.3	22.2%	101.8%	99.3	PASS

Envirotech Engineering & Consulting. Inc

9/12/2018
Date

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	9/11/2018
Troxler Model:	3430		
Moist Std:	563	Density Std:	2009
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	
Max Dry Density (pcf):	
Optimum Moisture (%):	
Visual Description:	

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
25	Grid NS1	Onsite Fill	4	16:30	ZB	6	122.4	21.0%	103.8%	101.2	PASS
26	Grid NS2	Onsite Fill	4	16:41	ZB	6	126.0	22.4%	105.6%	102.9	PASS
27	Grid ES2	Onsite Fill	4	16:50	ZB	6	122.7	22.2%	103.0%	100.4	PASS
28	Grid ES1	Onsite Fill	4	16:55	ZB	6	129.2	21.8%	108.8%	106.1	PASS
29	Grid SS2	Onsite Fill	4	17:10	ZB	6	125.8	21.8%	105.9%	103.3	PASS
30	Grid SS1	Onsite Fill	4	17:14	ZB	6	117.9	22.3%	98.9%	96.4	PASS
31	Grid WS1	Onsite Fill	4	17:18	ZB	6	120.9	21.6%	102.0%	99.4	PASS
32	Grid WS2	Onsite Fill	4	17:25	ZB	6	124.5	21.9%	104.8%	102.1	PASS

Envirotech Engineering & Consulting. Inc

9/12/2018
Date

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	9/25/2018
Troxler Model:	3430		
Moist Std:	563	Density Std:	2009
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	Onsite Fill #2
Max Dry Density (pcf):	103.9
Optimum Moisture (%):	15.9%
Visual Description:	Tan Clay with Caliche

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
33	Grid SS1	Clay Liner	1	15:20	JB	6	113.5	19.8%	97.1%	94.7	PASS
34	Grid SS2	Clay Liner	1	15:22	JB	6	110.8	18.8%	95.6%	93.3	PASS
35	Grid ES1	Clay Liner	1	15:25	JB	6	111.6	18.9%	96.2%	93.9	PASS
36	Grid ES2	Clay Liner	1	15:30	JB	6	114.2	20.6%	97.0%	94.7	PASS
37	Grid NS1	Clay Liner	1	15:32	JB	6	124.9	20.6%	106.1%	103.6	PASS
38	Grid NS2	Clay Liner	1	15:35	JB	6	123.0	21.8%	103.5%	101.0	PASS
39	Grid WS1	Clay Liner	1	15:40	JB	6	123.4	21.9%	103.7%	101.2	PASS
40	Grid WS2	Clay Liner	1	15:45	JB	6	112.1	18.9%	96.6%	94.3	PASS
41	Grid F5	Onsite Fill #2	5	15:50	JB	6	129.6	16.9%	106.7%	110.9	PASS
42	Grid F1	Onsite Fill #2	5	17:55	JB	6	130.3	17.0%	107.2%	111.4	PASS
43	Grid F2	Onsite Fill #2	5	18:00	JB	6	129.9	16.4%	107.4%	111.6	PASS
44	Grid F7	Onsite Fill #2	5	18:05	JB	6	130.9	15.1%	109.5%	113.7	PASS
45	Grid F4	Onsite Fill #2	5	18:10	JB	6	129.5	16.1%	107.4%	111.5	PASS
46	Grid F8	Onsite Fill #2	5	18:15	JB	6	130.1	15.4%	108.5%	112.7	PASS

Envirotech Engineering & Consulting. Inc

9/27/2018
Date

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	10/1/2018
Troxler Model:	3430		
Moist Std:	551	Density Std:	2014
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	Onsite Fill #2
Max Dry Density (pcf):	103.9
Optimum Moisture (%):	15.9%
Visual Description:	Tan Clay with Caliche

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
47	Grid W1	Clay Liner	2	17:00	JB	6	121.3	19.0%	104.4%	101.9	PASS
48	Grid W2	Clay Liner	2	17:04	JB	6	119.5	19.1%	102.8%	100.3	PASS
49	Grid S1	Clay Liner	2	17:08	JB	6	119.6	19.1%	102.9%	100.4	PASS
50	Grid S2	Clay Liner	2	17:12	JB	6	119.8	19.9%	102.4%	99.9	PASS
51	Grid E1	Clay Liner	1	17:15	JB	6	118.7	19.2%	102.0%	99.6	PASS
52	Grid E2	Clay Liner	1	17:19	JB	6	120.3	19.4%	103.2%	100.8	PASS
53	Grid N1	Clay Liner	1	17:23	JB	6	120.8	19.7%	103.4%	100.9	PASS
54	Grid N2	Clay Liner	1	17:27	JB	6	120.3	19.6%	103.1%	100.6	PASS
55	Grid F1	Clay Liner	1	17:31	JB	6	119.3	20.6%	101.4%	98.9	PASS
56	Grid F2	Clay Liner	1	17:35	JB	6	120.9	20.0%	103.2%	100.8	PASS
57	Grid F3	Clay Liner	1	17:38	JB	6	122.5	20.8%	103.9%	101.4	PASS
58	Grid F4	Clay Liner	1	17:42	JB	6	121.7	20.7%	103.3%	100.8	PASS
59	Grid F8	Clay Liner	1	17:46	JB	6	122.6	21.3%	103.6%	101.1	PASS
60	Grid F7	Clay Liner	1	17:50	JB	6	125.5	20.7%	106.5%	104.0	PASS
61	Grid F6	Clay Liner	1	17:55	JB	6	124.5	19.7%	106.6%	104.0	PASS
62	Grid F5	Clay Liner	1	18:00	JB	6	119.8	20.9%	101.5%	99.1	PASS

Envirotech Engineering & Consulting. Inc

10/9/2018

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	10/2/2018
Troxler Model:	3430		
Moist Std:	549	Density Std:	2011
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	Onsite Fill #2
Max Dry Density (pcf):	103.9
Optimum Moisture (%):	15.9%
Visual Description:	Tan Clay with Caliche

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
63	Grid W1	Clay Liner	3	17:00	JB	6	110.4	19.0%	95.1%	92.8	PASS
64	Grid W2	Clay Liner	3	17:05	JB	6	111.1	19.7%	95.1%	92.8	PASS
65	Grid S1	Clay Liner	3	17:10	JB	6	118.6	20.3%	101.0%	98.6	PASS
66	Grid S2	Clay Liner	3	17:15	JB	6	119.0	19.8%	101.8%	99.3	PASS
67	Grid E1	Clay Liner	2	17:20	JB	6	117.9	20.2%	100.5%	98.1	PASS
68	Grid E2	Clay Liner	2	17:25	JB	6	119.0	20.7%	101.0%	98.6	PASS
69	Grid N1	Clay Liner	2	17:30	JB	6	118.0	19.7%	101.0%	98.6	PASS
70	Grid N2	Clay Liner	2	17:35	JB	6	118.2	21.1%	100.0%	97.6	PASS
71	Grid F4	Clay Liner	2	17:40	JB	6	119.4	20.8%	101.3%	98.8	PASS
72	Grid F3	Clay Liner	2	17:42	JB	6	117.5	20.7%	99.7%	97.3	PASS
73	Grid F2	Clay Liner	2	17:44	JB	6	124.3	19.3%	106.8%	104.2	PASS
74	Grid F1	Clay Liner	2	17:48	JB	6	120.1	21.5%	101.3%	98.8	PASS
75	Grid F5	Clay Liner	2	17:52	JB	6	119.5	19.3%	102.6%	100.2	PASS
76	Grid F6	Clay Liner	2	17:56	JB	6	120.1	19.2%	103.2%	100.8	PASS
77	Grid F7	Clay Liner	2	17:58	JB	6	120.6	19.4%	103.5%	101.0	PASS
78	Grid F8	Clay Liner	2	18:00	JB	6	116.4	19.1%	100.1%	97.7	PASS

Envirotech Engineering & Consulting. Inc

10/9/2018

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ENGINEERING & CONSULTING, INC.
2500 N. 11th Street I Enid, OK 73701
(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	10/4/2018
Troxler Model:	3430		
Moist Std:	557	Density Std:	2016
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	Onsite Fill #2
Max Dry Density (pcf):	103.9
Optimum Moisture (%):	15.9%
Visual Description:	Tan Clay with Caliche

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
79	Grid W1	Clay Liner	4	17:00	JB	6	117.1	19.2%	100.7%	98.2	PASS
80	Grid W2	Clay Liner	4	17:04	JB	6	118.3	19.5%	101.4%	99.0	PASS
81	Grid N1	Clay Liner	4	17:07	JB	6	117.0	19.9%	100.0%	97.6	PASS
82	Grid N2	Clay Liner	4	17:11	JB	6	118.8	19.1%	102.2%	99.7	PASS
83	Grid F1	Clay Liner	Final	17:14	JB	6	112.0	19.0%	96.4%	94.1	PASS
84	Grid F5	Clay Liner	Final	17:17	JB	6	111.9	19.4%	96.0%	93.7	PASS
85	Grid F6	Clay Liner	Final	17:20	JB	6	110.8	19.3%	95.2%	92.9	PASS
86	Grid F2	Clay Liner	Final	17:22	JB	6	119.7	19.6%	102.5%	100.1	PASS
87	Grid F3	Clay Liner	Final	17:25	JB	6	115.9	19.8%	99.1%	96.7	PASS
88	Grid F7	Clay Liner	Final	17:28	JB	6	118.6	19.8%	101.4%	99.0	PASS
89	Grid F8	Clay Liner	Final	17:31	JB	6	118.0	19.1%	101.5%	99.1	PASS
90	Grid F4	Clay Liner	Final	17:35	JB	6	112.9	19.9%	96.5%	94.2	PASS

Envirotech Engineering & Consulting. Inc

10/9/2018

FIELD NUCLEAR DENSITY TEST (ASTM D-6938)

ENVIROTECH
ENGINEERING & CONSULTING, INC.
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(580) 234-8780 I Fax (580) 237-4302

Client: Seaboard Farms, LLC
Address: 2801 Hurliman Road, Guymon, OK 73942

Soil Information

Project:	Perryton Evaporative Lagoon		
Project ID:	018334-00		
Troxler ID:	34563	Test Date:	10/16/2018
Troxler Model:	3430		
Moist Std:	565	Density Std:	2031
Moist offset:	N/A	Density offset:	N/A

Allowable Moisture Range:	Embankment -1/+3, Clay Optimum and Above
Necessary % Proctor:	95%

Proctor:	Onsite Fill
Max Dry Density (pcf):	97.5
Optimum Moisture (%):	21.8%
Visual Description:	Brown Clay
Proctor:	Clay Liner
Max Dry Density (pcf):	97.6
Optimum Moisture (%):	19.8%
Visual Description:	Dark Brown Clay
Proctor:	Onsite Fill #2
Max Dry Density (pcf):	103.9
Optimum Moisture (%):	15.9%
Visual Description:	Tan Clay with Caliche

Test No	Location or Grid Number	Pr	Lift	Time	Tech	Depth of Test (inches)	Wet Density (pcf)	Moisture Content (%)	% Proctor (calc)	Dry Density (calc)	P/F
91	Grid NS!	Onsite Fill #2	Final	11:20	ZB	6	123.2	17.7%	100.7%	104.7	PASS
92	Grid NS2	Onsite Fill #2	Final	11:30	ZB	6	126.0	18.7%	102.2%	106.1	PASS
93	Grid SS1	Onsite Fill #2	Final	12:10	ZB	6	125.9	20.0%	101.0%	104.9	PASS
94	Grid SS2	Onsite Fill #2	Final	12:00	ZB	6	125.6	21.6%	99.4%	103.3	PASS
95	Grid ES1	Onsite Fill #2	3	11:49	ZB	12	127.6	20.2%	102.2%	106.2	PASS
96	Grid ES2	Onsite Fill #2	3	11:38	ZB	12	123.6	18.3%	100.6%	104.5	PASS
97	Grid ES1	Onsite Fill #2	Final	11:55	ZB	6	125.4	19.8%	100.7%	104.7	PASS
98	Grid ES2	Onsite Fill #2	Final	11:44	ZB	6	125.3	19.7%	100.7%	104.7	PASS

Envirotech Engineering & Consulting. Inc

10/17/2018

T.F: SDSs

Summary of Chemical Additives to Wastestream for Outfall E-1:

1. Oxytrol 2030 – Used for Industrial Water Treatment prior to Boiler. Contains Sodium Bisulfite.
2. Neutramine – Used for Industrial Water Treatment prior to Boiler. Contains Ethanol, 2-(Diethylamino) and Hexahydroaniline.
3. Boiler Power 640 – Used for Industrial Water Treatment prior to Boiler. Contains Polymaleic Acid, Sodium Hydroxide and Sodium Bisulfite.

SAFETY DATA SHEET

3463 Astrozon Court
Colorado Springs Co 80910

1. IDENTIFICATION

GHS Product Identifier: **Oxytrol 2030**

HEALTH HAZARD	1
FIRE HAZARD	0
REACTIVITY	1

Rating Scale
4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

Synonyms: None
General Description: Industrial Water treatment product

SDS Identification Code:
Revision Date:
24 hour Emergency Response: 800-535-5053

Recommended Use: Reduce or prevent oxygen corrosion

2. HAZARD IDENTIFICATION

Hazard Classification: Skin irritation, category 2
Eye irritation, category 2

Signal Word: Danger
Hazard Statements(s): H315: Causes skin irritation
H319: Causes serious eye irritation

Pictograms of related hazards:

Precautionary Statements:
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P321: Specific treatment (see First Aid Measures on Safety Data Sheet)
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get Medical advice/attention.
Description of other Hazards: Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	% by weight	TWA/TLV
Sodium Bisulfite (CAS Reg No. 7631-90-5)	<15	1.2 ppm

The balance of components comprise proprietary information.

4. FIRST-AID MEASURES

Eye contact: Flush eyes IMMEDIATELY and gently with large volumes of water for 15 minutes. Use finger to assure that eye lids are separated and that the eye is being irrigated. Obtain medical assistance promptly.

Skin contact: Flush affected area promptly with large quantities of water for 15 minutes. Except In the most minor, superficial and localized burns, cover the affected area with a Sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS.

Ingestion: In the event of ingestion administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Obtain medical care and hospital treatment as soon as possible.

Inhalation: Move affected person to uncontaminated atmosphere. If breathing has stopped or is impaired, give assisted respiration (mouth to mouth), supplemental oxygen should be given if available. Assure that victim does not aspirate vomited material by use of postural drainage. Assure that mucous does not obstruct the airway. Seek medical attention.

Note to Physician: The product has effects similar to those of Sodium hydroxide and is highly injurious to all tissues. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected organs may occur following exposure. There is no specific treatment. Clinical management is based upon supportive treatment, which is similar to that for thermal burns. victims with major skin contact should be maintained under medical observation for at least 24 hours due to possibility of delayed reaction.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog. Foam. Dry Chemical powder. Carbon dioxide (CO2). Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing Media: Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.

Specific hazards arising from the chemical The product itself does not burn. May decompose upon heating to produce corrosive and/or toxic fumes.

Special protective Equipment and Precautions for Firefighters	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat pants, gloves, boots and bands around legs, arms and waist, should be worn. No skin surface should be exposed.
Fire-fighting Equipment/ Instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened contain ers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapors. May be a slipping hazard. Work up wind or increase ventilation. Contain/ prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Environmental Precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.
Methods for clean-up:	
Small spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Large spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Refer to "Exposure Controls/Personal Protection," Section 8, of the MSDS.
Storage:	Keep containers tightly closed when not in use. Do not store near food, foodstuff, drugs or potable water supplies. Storage must only be in original containers. If exposed to temperatures below freezing point (40ºF, 5º C), assure product reaches 50ºF, 10º C, prior to use. Gently agitate contents of container. Vigorous agitation is not required.
Notes:	Please Note: Freezing will not harm product performance. Simply bring to room temperature and allowing it to warm up. It is not recommended to heat or to put a heating device into contact with the liquid product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Not Available
OSHA Permissible Exposure Limits (PELs):	Not Available
American Conference of Governmental Industrial Hygienists (ACGIH):	Not Available
Threshold Limit Values (TLVs):	Not Available

Other Exposure Limits: Not Available

Engineering Controls: Natural ventilation should be adequate under normal use conditions. If inhalation risk exists: Use with local exhausts ventilation or while wearing suitable mist respirator. Keep containers closed when not in use. Maintain eye wash fountain and quick-drench facilities in work area.

Personal Protection:
Eye Protection: Use chemical safety glasses with side shields, goggles, or face shield are recommended.

Hand Protection: Wear protective gloves
Skin Protection: Wear clean body-covering clothing or apron
Respiratory Protection: Mist respirator as needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance:	Dark Brown
Odor:	Pungent
pH(neat):	5-6
Specific Gravity:	Not Available
Relative Density:	9.45 lb/gallon
Melting/Freezing Point:	Not available
Initial Boiling Point and Boiling range:	212º
Flash Point:	N/A
Solubility (water):	Complete (water)
Intrinsic Viscosity:	Not available
Flammability (solid, gas):	Not available
Upper/Lower flammability limits:	Not available
Vapor Pressure:	Not available
Evaporation rate:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Partition coefficient:	Not available

Note: These physical properties are typical values for this product and not specifications.

10. STABILITY AND REACTIVITY

Reactivity Data: No specific data for this product

Chemical Stability:
Stability under normal conditions: Stable under ordinary conditions of use and storage.
Stabilizers needed: None needed

Other Information:
Conditions to avoid: Not available

Materials to avoid: Not available

Hazardous reactions: Will not occur
Hazardous decomposition products:

11. TOXICOLOGIACAL INFORMATION

Toxicity Studies: LD50 in rats 2000 mg/kg orally.
Acute Toxicity: Not available

Skin Corrosion/Irritation: Not available
Serious Eye Damage/Irritation: Not available
Germ Cell Mutagenicity: Not available
Carcinogenicity: Not available
Reproductive Toxicity: Not available
STOT-single exposure: Not available
STOT-repeated exposure: Not available
Aspiration Hazard: Not available

12.ECOLOGICAL INFORMATION

Toxicity:
Persistence and Degradability:
Bio-accumulative Potential:
Mobility in Soil:
Other Adverse Effects:

13.DISPOSAL CONSIDERATIONS

Recommended Disposal Containers:
Recommended Disposal Methods:

Physical and Chemical Properties that
affect Disposal:
Sewage Disposal:
Special Precautions for Landfills or Incineration:

14.TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

DOT

UN Number UN2693
UN proper shipping name Bisulfites, aqueous solutions, N.O.S. (Sodium Bisulfite)
Transport hazard class(es) 8
Subsidiary class(es)
Packing group III
Special precautions for user

Packaging exceptions
Packaging non bulk
Packaging bulk

IATA

UN Number	UN2693
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Labels required	
ERG Code	
Special precautions for user	

IMDG

UN Number	UN2693
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Marine pollutant	
Labels required	
EmS	
Special precautions for user	

Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code

15. REGULATORY INFORMATION

US federal regulations — this product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Sectin 129b) Export Notification (40 CRF 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Sodium hydroxide (CAS 1310-73-2)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard-Yes Delayed Hazard-No Fire Hazard-No Pressure Hazard-NO Reactivity Hazard-Yes
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated
Food and Drug Administration (FDA)	Not regulated

US state regulations

US. Massachusetts RTK-Substance List
Sodium Bisulfite (CAS 7631-90-5)

US. New Jersey Worker and Community Right –to-Know Act
Not regulated.

US. Pennsylvania RTK-Hazardous Substances
Sodium Bisulfite (CAS 7631-90-5)

US. Rhode Island RTK
Sodium Bisulfite (CAS 7631-90-5)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. OTHER INFORMATION

Revision Date:	05/01/2015
Revision Number:	1
Reason for revision:	New

NOTICE: The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling , storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

SAFETY DATA SHEET

3463 Astrozon Court
Colorado Springs Co 80910

1. IDENTIFICATION

GHS Product Identifier: **Neutramine**

HEALTH HAZARD	2
FIRE HAZARD	2
REACTIVITY	0

Rating Scale
4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

Synonyms: None
General Description: Industrial Water treatment product

SDS Identification Code:
Revision Date:
24 hour Emergency Response: 800-535-5053

Recommended Use: Corrosion protection

2. HAZARD IDENTIFICATION

Hazard Classification: Skin irritation, category 2
Eye irritation, category 2

Signal Word: Danger
Hazard Statements(s): H315: Causes skin irritation
H319: Causes serious eye irritation

Pictograms of related hazards:

Precautionary Statements:
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P321: Specific treatment (see First Aid Measures on Safety Data Sheet)
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get Medical advice/attention.
Description of other Hazards: Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	% by weight	TWA/TLV
Ethanol, 2-(Diethylamino) (CAS Reg No. 100-37-8)	≤ 10	10 ppm
Hexahydroaniline (CAS Reg No. 108-91-8)	≤ 6	10 ppm

The balance of components comprise proprietary information.

4. FIRST-AID MEASURES

Eye contact: Flush eyes IMMEDIATELY and gently with large volumes of water for 15 minutes. Use finger to assure that eye lids are separated and that the eye is being irrigated. Obtain medical assistance promptly.

Skin contact: Flush affected area promptly with large quantities of water for 15 minutes. Except In the most minor, superficial and localized burns, cover the affected area with a Sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS.

Ingestion: In the event of ingestion administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Obtain medical care and hospital treatment as soon as possible.

Inhalation: Move affected person to uncontaminated atmosphere. If breathing has stopped or is impaired, give assisted respiration (mouth to mouth), supplemental oxygen should be given if available. Assure that victim does not aspirate vomited material by use of postural drainage. Assure that mucous does not obstruct the airway. Seek medical attention.

Note to Physician: The product has effects similar to those of Sodium hydroxide and is highly injurious to all tissues. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected organs may occur following exposure. There is no specific treatment. Clinical management is based upon supportive treatment, which is similar to that for thermal burns. victims with major skin contact should be maintained under medical observation for at least 24 hours due to possibility of delayed reaction.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog. Foam. Dry Chemical powder. Carbon dioxide (CO2). Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing Media: Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.

Specific hazards The product itself does not burn. May decompose upon heating to produce

arising from the chemical	corrosive and/or toxic fumes.
Special protective Equipment and Precautions for Firefighters	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat pants, gloves, boots and bands around legs, arms and waist, should be worn. No skin surface should be exposed.
Fire-fighting Equipment/ Instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened contain ers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapors. May be a slipping hazard. Work up wind or increase ventilation. Contain/ prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Environmental Precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.
Methods for clean-up:	
Small spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Large spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Refer to "Exposure Controls/Personal Protection," Section 8, of the MSDS.
Storage:	Keep containers tightly closed when not in use. Do not store near food, foodstuff, drugs or potable water supplies. Storage must only be in original containers. If exposed to temperatures below freezing point (40ºF, 5º C), assure product reaches 50ºF, 10º C, prior to use. Gently agitate contents of container. Vigorous agitation is not required.
Notes:	Please Note: Freezing will not harm product performance. Simply bring to room temperature and allowing it to warm up. It is not recommended to heat or to put a heating device into contact with the liquid product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Not Available

OSHA Permissible Exposure Limits (PELs):	Not Available
American Conference of Governmental Industrial Hygienists (ACGIH):	Not Available
Threshold Limit Values (TLVs):	Not Available
Other Exposure Limits:	Not Available

Engineering Controls: Natural ventilation should be adequate under normal use conditions. If inhalation risk exists: Use with local exhausts ventilation or while wearing suitable mist respirator. Keep containers closed when not in use. Maintain eye wash fountain and quick-drench facilities in work area.

Personal Protection:
Eye Protection: Use chemical safety glasses with side shields, goggles, or face shield are recommended.

Hand Protection: Wear protective gloves
Skin Protection: Wear clean body-covering clothing or apron
Respiratory Protection: Mist respirator as needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance:	Colorless to Yellow
Odor:	Ammonia-like
pH(neat):	12 ± 1
Specific Gravity:	Not Available
Relative Density:	8.24 lb/gallon
Melting/Freezing Point:	Not available
Initial Boiling Point and Boiling range:	212º
Flash Point:	N/A
Solubility (water):	Complete (water)
Intrinsic Viscosity:	Not available
Flammability (solid, gas):	Not available
Upper/Lower flammability limits:	Not available
Vapor Pressure:	Not available
Evaporation rate:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Partition coefficient:	Not available

Note: These physical properties are typical values for this product and not specifications.

10. STABILITY AND REACTIVITY

Reactivity Data: No specific data for this product

Chemical Stability:
Stability under normal conditions: Stable under ordinary conditions of use and storage.

Stabilizers needed: None needed

Other Information:
Conditions to avoid: Not available
Materials to avoid: Not available

Hazardous reactions: Will not occur
Hazardous decomposition products:

11. TOXICOLOGIACAL INFORMATION

Toxicity Studies: LD50 in rats 2000 mg/kg orally.
Acute Toxicity: Not available

Skin Corrosion/Irritation: Not available
Serious Eye Damage/Irritation: Not available
Germ Cell Mutagenicity: Not available
Carcinogenicity: Not available
Reproductive Toxicity: Not available
STOT-single exposure: Not available
STOT-repeated exposure: Not available
Aspiration Hazard: Not available

12.ECOLOGICAL INFORMATION

Toxicity:
Persistence and Degradability:
Bio-accumulative Potential:
Mobility in Soil:
Other Adverse Effects:

13.DISPOSAL CONSIDERATIONS

Recommended Disposal Containers:
Recommended Disposal Methods:

Physical and Chemical Properties that
affect Disposal:
Sewage Disposal:
Special Precautions for Landfills or Incineration:

14.TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

DOT

UN Number UN1760
UN proper shipping name Corrosive Liquids, N.O.S. (Diethylaminoethanol)

Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	II
Special precautions for user	
Packaging exceptions	
Packaging non bulk	
Packaging bulk	

IATA

UN Number	UN1760
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Labels required	
ERG Code	
Special precautions for user	

IMDG

UN Number	UN1760
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Marine pollutant	
Labels required	
EmS	
Special precautions for user	

Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code

15. REGULATORY INFORMATION

US federal regulations — this product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Sectin 129b) Export Notification (40 CRF 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Sodium hydroxide (CAS 1310-73-2)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard-Yes Delayed Hazard-No Fire Hazard-No Pressure Hazard-NO Reactivity Hazard-Yes
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting)	

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated
Food and Drug Administration (FDA)	Not regulated

US state regulations

US. Massachusetts RTK-Substance List

Ethanol, 2-(Diethylamino) (CAS 100-37-8)

US. New Jersey Worker and Community Right –to-Know Act

Not regulated.

US. Pennsylvania RTK-Hazardous Substances

Ethanol, 2-(Diethylamino) (CAS 100-37-8)

US. Rhode Island RTK

Ethanol, 2-(Diethylamino) (CAS 100-37-8)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. OTHER INFORMATION

Revision Date:	05/01/2015
Revision Number:	1
Reason for revision:	New

NOTICE: The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling , storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

SAFETY DATA SHEET

3463 Astrozon Court
Colorado Springs Co 80910

1. IDENTIFICATION

GHS Product Identifier: **Boiler Power 640**

HEALTH HAZARD	2
FIRE HAZARD	0
REACTIVITY	0

Rating Scale
4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

Synonyms: None
General Description: Industrial Water treatment product

SDS Identification Code:
Revision Date:
24 hour Emergency Response: 800-535-5053

Recommended Use: Deposit penetrant, remover and corrosion inhibitor

2. HAZARD IDENTIFICATION

Hazard Classification: Skin irritation, category 2
Eye irritation, category 2

Signal Word: Danger
Hazard Statements(s): H315: Causes skin irritation
H319: Causes serious eye irritation

Pictograms of related hazards:

Precautionary Statements:
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P321: Specific treatment (see First Aid Measures on Safety Data Sheet)
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get Medical advice/attention.
Description of other Hazards: Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	% by weight	TWA/TLV
Polymaleic Acid (CAS Reg. No. 26099-09-2)	≤515mg/Kg	
Sodium Hydroxide (CAS Reg. No. 1310-73-2)	≤ 5	2.0 ppm
Sodium Bisulfite (CAS Reg No. 7631-90-5)	≤4	1.2 ppm

The balance of components comprise proprietary information.

4. FIRST-AID MEASURES

Eye contact: Flush eyes IMMEDIATELY and gently with large volumes of water for 15 minutes. Use finger to assure that eye lids are separated and that the eye is being irrigated. Obtain medical assistance promptly.

Skin contact: Flush affected area promptly with large quantities of water for 15 minutes. Except In the most minor, superficial and localized burns, cover the affected area with a Sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS.

Ingestion: In the event of ingestion administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Obtain medical care and hospital treatment as soon as possible.

Inhalation: Move affected person to uncontaminated atmosphere. If breathing has stopped or is impaired, give assisted respiration (mouth to mouth), supplemental oxygen should be given if available. Assure that victim does not aspirate vomited material by use of postural drainage. Assure that mucous does not obstruct the airway. Seek medical attention.

Note to Physician: The product has effects similar to those of Sodium hydroxide and is highly injurious to all tissues. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected organs may occur following exposure. There is no specific treatment. Clinical management is based upon supportive treatment, which is similar to that for thermal burns. victims with major skin contact should be maintained under medical observation for at least 24 hours due to possibility of delayed reaction.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog. Foam. Dry Chemical powder. Carbon dioxide (CO2). Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing Media: Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.

Specific hazards The product itself does not burn. May decompose upon heating to produce

arising from the chemical	corrosive and/or toxic fumes.
Special protective Equipment and Precautions for Firefighters	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat pants, gloves, boots and bands around legs, arms and waist, should be worn. No skin surface should be exposed.
Fire-fighting Equipment/ Instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened contain ers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapors. May be a slipping hazard. Work up wind or increase ventilation. Contain/ prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Environmental Precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.
Methods for clean-up:	
Small spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.
Large spill:	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Refer to "Exposure Controls/Personal Protection," Section 8, of the MSDS.
Storage:	Keep containers tightly closed when not in use. Do not store near food, foodstuff, drugs or potable water supplies. Storage must only be in original containers. If exposed to temperatures below freezing point (40ºF, 5º C), assure product reaches 50ºF, 10º C, prior to use. Gently agitate contents of container. Vigorous agitation is not required.
Notes:	Please Note: Freezing will not harm product performance. Simply bring to room temperature and allowing it to warm up. It is not recommended to heat or to put a heating device into contact with the liquid product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Not Available
OSHA Permissible Exposure Limits (PELs):	Not Available

American Conference of Governmental Industrial Hygienists (ACGIH): Not Available
Threshold Limit Values (TLVs): Not Available
Other Exposure Limits: Not Available

Engineering Controls: Natural ventilation should be adequate under normal use conditions. If inhalation risk exists: Use with local exhausts ventilation or while wearing suitable mist respirator. Keep containers closed when not in use. Maintain eye wash fountain and quick-drench facilities in work area.

Personal Protection:
Eye Protection: Use chemical safety glasses with side shields, goggles, or face shield are recommended.

Hand Protection: Wear protective gloves
Skin Protection: Wear clean body-covering clothing or apron
Respiratory Protection: Mist respirator as needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance:	Straw color
Odor:	Sweet Smell
pH(neat):	13.5 (approx.)
Specific Gravity:	Not Available
Relative Density:	8.93 lb/gallon
Melting/Freezing Point:	Not available
Initial Boiling Point and Boiling range:	212º
Flash Point:	N/A
Solubility (water):	Complete (water)
Intrinsic Viscosity:	Not available
Flammability (solid, gas):	Not available
Upper/Lower flammability limits:	Not available
Vapor Pressure:	Not available
Evaporation rate:	Not available
Auto-ignition Temperature:	
Decomposition Temperature:	
Partition coefficient:	

Note: These physical properties are typical values for this product and not specifications.

10. STABILITY AND REACTIVITY

Reactivity Data: No specific data for this product

Chemical Stability:
Stability under normal conditions: Stable under ordinary conditions of use and storage.
Stabilizers needed: None needed

Other Information:

Conditions to avoid:	Not available
Materials to avoid:	Not available
Hazardous reactions:	Will not occur
Hazardous decomposition products:	

11. TOXICOLOGIACAL INFORMATION

Toxicity Studies:	Not available
Acute Toxicity:	Not available
Skin Corrosion/Irritation:	Not available
Serious Eye Damage/Irritation:	Not available
Germ Cell Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive Toxicity:	Not available
STOT-single exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration Hazard:	Not available

12.ECOLOGICAL INFORMATION

Toxicity:
Persistence and Degradability:
Bio-accumulative Potential:
Mobility in Soil:
Other Adverse Effects:

13.DISPOSAL CONSIDERATIONS

Recommended Disposal Containers:
Recommended Disposal Methods:

Physical and Chemical Properties that
affect Disposal:
Sewage Disposal:
Special Precautions for Landfills or Incineration:

14.TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

DOT

UN Number	UN1760
UN proper shipping name	Corrosive Liquid N.O.S. (Sodium Hydroxide)
Transport hazard class(es)	8
Subsidiary class(es)	

Packing group	II
Special precautions for user	
Packaging exceptions	
Packaging non bulk	
Packaging bulk	

IATA

UN Number	UN1760
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Labels required	
ERG Code	
Special precautions for user	

IMDG

UN Number	UN1760
UN proper shipping name	
Transport hazard class(es)	8
Subsidiary class(es)	
Packing group	
Environmental hazards	
Marine pollutant	
Labels required	
EmS	
Special precautions for user	

Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code

15. REGULATORY INFORMATION

US federal regulations — this product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Sectin 129b) Export Notification (40 CRF 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Sodium hydroxide (CAS 1310-73-2)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard-Yes Delayed Hazard-No Fire Hazard-No Pressure Hazard-NO Reactivity Hazard-Yes
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated
Food and Drug Administration (FDA)	Not regulated

US state regulations

US. Massachusetts RTK-Substance List
Sodium hydroxide (CAS 1310-73-2)

US. New Jersey Worker and Community Right –to-Know Act
Not regulated.

US. Pennsylvania RTK-Hazardous Substances
Sodium hydroxide (CAS 1310-73-2)

US. Rhode Island RTK
Sodium hydroxide (CAS 1310-73-2)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. OTHER INFORMATION

Revision Date: 05/01/2015
Revision Number: 1
Reason for revision: New

NOTICE: The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling , storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

Leah Whallon

From: Marsha Shoemaker <mshoemaker@enviroag.com>
Sent: Friday, May 31, 2024 11:37 AM
To: Leah Whallon
Cc: jennifer_nelson@seaboardfoods.com
Subject: RE: Application to Amend Permit No. WQ0005231000; Seaboard Foods LLC; Perryton Feedmill
Attachments: WQ0005231_Revision 5.28.24.pdf; 5260_Labels.docx; Seaboard Foods application notice - original with Spanish.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Whallon -Please find the information requested from your letter dated 5/2424.

Item#1 - Item 2.c was revised to note Peter Brown as the signature on application.
Item #2 – The MS Word document of labels is attached. 4 sets of labels were submitted as part of the mailed application packet.
Item #3 – Review of the NORI document is attached as track changes. Please add the suite number to the notice address for Seaboard Foods LLC.
Item #4 – Spanish translated NORI is attached.

Thanks,
Marsha
Enviro-Ag Engineering, Inc.
806/350-5463

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Tuesday, May 28, 2024 2:44 PM
To: Marsha Shoemaker <mshoemaker@enviroag.com>
Cc: jennifer_nelson@seaboardfoods.com
Subject: RE: Application to Amend Permit No. WQ0005231000; Seaboard Foods LLC; Perryton Feedmill

Hi Marsha,

Yes, now we only need the electronic version of the labels in MS Word. Please let me know if you have any questions.

Thanks,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Marsha Shoemaker <mshoemaker@enviroag.com>
Sent: Tuesday, May 28, 2024 1:50 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: jennifer_nelson@seaboardfoods.com
Subject: RE: Application to Amend Permit No. WQ0005231000; Seaboard Foods LLC; Perryton Feedmill

Ms. Whallon – Quick question on Item #2 of the requested information. I checked with the office manager and the labels were inserted in the box with all the application packet copies. Are you just asking for the MS Word document for formatted labels?

Thanks,
Marsha

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Friday, May 24, 2024 10:48 AM
To: Marsha Shoemaker <mshoemaker@enviroag.com>
Cc: jennifer_nelson@seaboardfoods.com
Subject: Application to Amend Permit No. WQ0005231000; Seaboard Foods LLC; Perryton Feedmill

Good Morning,

Please see the attached Notice of Deficiency letter dated May 24, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by June 7, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Disclaimer

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.: 16158

Check or money order amt.: 350.00

Named printed on check or money order: Enviro-Ag Engineering, Inc.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN603155748

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Seaboard Foods LLC

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

Title: President & CEO Credential: Click to enter text.

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

☒ Yes ☐ No

[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

SEABOARD FOODS LLC
9000 WEST 67TH STREET
SHAWNEE MISSION KS 66202

GARY T MONTGOMERY
13350 COUNTY ROAD U
PERRYTON TX 79070

DAN EARL STEED
PO BOX 281
GROOM TX 79039

DAVID B PECKENPAUGH
PO BOX 253
FARNSWORTH TX 79033

BRIAN & TAMARACHENA PSHIGODA
12444 FM 3045
PERRYTON TX 79070

JOEL D THOMPSON
PO BOX 215
FARNSWORTH TX 79033

EVELYN LEATHERMAN ESTATE
GAYNELLE HULSEY, 8409 BAXTER DR
AMARILLO TX 79119

DEBRA SUE SYMONS
14688 W LOOP 143
PERRYTON TX 79070

PHILIP SYMONS
701 S DRAKE ST
PERRYTON TX 79070

JED P SYMONS
14905 COUNTY ROAD 20
PERRYTON TX 79070

ELLIOTT FAMILY FARMS LLC & DOROTHY ELLIOTT ESTATE TRUST
13008 BURNT OAK RD
OKLAHOMA CITY, OK 73120

CDH TRUST DTD 10-22-93
% CAROL HEFNER STEFFENS TRUSTEE
#10 25 HIGHLAND PARK VLG
DALLAS TX 75205

TREV M TEVIS
11750 FM 1267
PERRYTON TX 79070

DENZEL D TEVIS
914 SW 9TH AVE
PERRYTON TX 79070

SOUTHWESTERN PUBLIC SERVICE
ATTN PROPERTY TAX DEPARTMENT
PO BOX 1979
DENVER CO 80201

NORRIS LAND COMPANY
PO BOX 1106
PERRYTON TX 79070

WESTON CLARK TAYLOR & KINZY LYNN TAYLOR
14061 COUNTY ROAD 9
PERRYTON TX 79070

APPLICATION. Seaboard Foods LLC, 9000 West 67th Street, Suite 200, Shawnee Mission, Kansas 66202, which owns a swine feed processing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Land Application Permit (TLAP) No. WQ0005231000 to authorize an increase to the disposal of treated wastewater to a volume not to exceed a daily average flow of 11,000 gallons per day and the addition of a second evaporation pond. The facility and disposal site are located at 12025 West State Highway 15, near the city of Perryton, in Ochiltree County, Texas 79070. TCEQ received this application on May 14, 2024. The permit application will be available for viewing and copying at Perry Memorial Library, 22 Southeast 5th Avenue, Perryton, in Ochiltree County, Texas prior to the date this notice is published in the newspaper. 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=-100.926666,36.341944&level=18

Further information may also be obtained from Seaboard Foods LLC at the address stated above or by calling Ms. Jennifer Nelson, Associate General Counsel, at 913-261-2600.

****

SOLICITUD. Seaboard Foods LLC, 9000 West 67th Street, Suite 200, Shawnee Mission, Kansas 66202, propietaria de una instalación de procesamiento de alimentos para cerdos, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso para Aplicación al Suelo de Texas (TLAP) No. WQ0005231000 para autorizar un aumento en la descarga de aguas residuales tratadas a un volumen que no sobrepasa un flujo promedio diario de 11.000 galones por día y la adición de una segunda laguna de evaporación. La instalación y el sitio de descarga están ubicados en 12025 West State Highway 15, cerca de la ciudad de Perryton, en el condado de Ochiltree, Texas 79070. La TCEQ recibió esta solicitud el 14 de mayo de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la Perry Memorial Library, 22 Southeast 5th Avenue, Perryton, en el condado de Ochiltree, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación es proporcionado como una cortesía pública y no es parte de la solicitud o aviso. Para la ubicación exacta, consulte la aplicación. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.926666,36.341944&level=18

También se puede obtener información adicional de Seaboard Foods LLC a la dirección indicada arriba o llamando a la Sra. Jennifer Nelson, Asesora Legal General Adjunta, al 913-261-2600.