

CERTIFICATION

Permit Registration No. 43039

Applicant: 7 R Solutions

I, Blake Giese  
*Typed or printed name*

owner/operator  
*Title*

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 this document and can provide documentation in proof of such authorization upon request.

Signature: 

Date: 4/4/2026

**Type V Liquid Waste Processing Registration Application**  
**Prelim - Review 31732866 Revised 7/25/2025 Austin County Waste Solutions**

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**Cover Letter**

Texas Commission on Environmental Quality (TCEQ)  
Municipal Solid Waste Permits – MC 124  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: Austin County Waste Solutions  
Type V Liquid Processing Facility  
Registration Application  
Bellville, Austin County, Texas  
CN: 606353829 / RN: 112143748

To whom it may concern:

7 R Solutions has reviewed the requested information, and the responses provided are below:

1. Provide an updated and notarized applicant's certification, page 12 of the TCEQ-00650 form.

**Response: Page 12 has been updated and notarized. It is in the Part I Application Form – TCEQ-00650**

2. Provide updated professional engineering signs and seals on all title pages (Registration Application and Parts I-IV) and all table of contents pages.

**Response: Provided updated professional engineering signs and seals on all title pages (Registration Application and Parts I-IV) and all table of contents pages.**

3. Part I table of contents does not list section 5.5 titled "Response to NOD – 24." Include this section in the table of contents.

**Response: 5.5 "Response to NOD-24" has been included in Part I table of contents.**

4. Part II attachment IIE-4 titled "U.S. Fish and Wildlife Service Correspondence" is not listed on the Part II Table of Contents nor was the attachment included in the most recent NOD 2 response. Revise Part II to include this information.

**Response: Attachment IIE-4 has been added to the Part II Table of Contents and included the title on page 141.1. Included the responses on pages 141.2-141.29.**

5. Information previously provided was left out in the most recent NOD 2 replacement pages for Part II Section 1.2 (see NOD 2 redline file *ACWS application- REDLINE 3-16-26.pdf*, information located at the top of PDF pages 161 and 162).

Revise Part II Section 1.2 titled “Projected Waste Acceptance Rate” to include this information:

...“domestic septage waste generated daily per household, the population equivalent served by the Facility is calculated as follows:

The facility will accept only domestic septage and is designed to recover around 90% of the incoming waste stream for beneficial land application. Based on projected volumes, approximately 350,280 lbs of septage will be processed daily, with about 630 lbs (5.56%) consisting of non-organic solids and grease removed during screening. These residual solids will be disposed of at a TCEQ approved landfill, while the stabilized liquid fraction will be treated and applied on a TCEQ approved land application unit for beneficial reuse. All operations will comply with 30 TAC Chapter 330 and Chapter 312 requirements, and records of recovery rates, treatment conditions, and disposal will be maintained.

The facility is dependent on the approval for beneficial land use from the TCEQ Water Quality Division. If approval is not granted this application will be withdrawn.”

**Response: Revised Part II Section 1.2 titled “Projected Waste Acceptance Rate”.**

6. If a response was received from Austin County regarding road maintenance, include response in Part II attachment IIC-2.

**Response: We have not received a response from the Austin County Commissioner of Precinct 1.**

7. Add information for Local Government Authority Responsible for Road Maintenance to section 20 on page 8 of TCEQ-00650 form.

**Response: Information for Local Government Authority Responsible for Road Maintenance Page 8 has been added. It is in the Part I Application Form – TCEQ-00650**

8. Part II Section 2.6.4. and Part IV Sections 3.1.11 and 3.1.12 state that “A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in Part III, Attachment IIIC.” However, this TPDES Stormwater General Permit appears to be included in Part II Attachment IIG. Additionally, Part III section 3.1 states that “The

stormwater drainage calculation is included in Attachment IIIC.” These calculations are not currently provided. Revise the application for consistency and accuracy regarding Attachment IIIC.

**Response: Deleted language for attachment IIIC on Part III Report-5 (3.1 Drainage Analyses). Changed Attachment IIIC to Attachment IIG in section 2.6.4. Sections 3.1.11 and 3.1.12 are now correctly referring Part II, Attachment IIG.**

MSW 43039  
Revised 4/4/26 NOD3  
Tracking 31816673

# TYPE V LIQUID PROCESSING REGISTRATION APPLICATION

**Austin County Waste Solutions**  
Type V Liquid Waste Processing Facility  
Bellville, Texas  
Austin County

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Prepared by:

**7 R Solutions, LLC**  
3655 Woodley Ln  
Bellville, Texas 77418

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F-10131

*[Handwritten Signature]*  
4/7/26

Intended for Permitting Purposes Only  
December 2024

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**Type V Liquid Waste Processing Registration Application**  
*Austin County Waste Solutions*

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**Cover Letter**

December 30, 2024

Electronically submitted via TCEQ Secure FTP Site  
Hardcopy transmitted via FedEx delivery to:

Texas Commission on Environmental Quality (TCEQ)  
Municipal Solids Waste Permit Section, Waste Permits Division, MC-124  
12100 Park 35 Circle, Bldg. F  
Austin, Texas 78753

Re: Austin County Waste Solutions  
Type V Liquid Waste Processing Facility  
Registration Application  
Bellville, Austin County, Texas  
CN- 606353829 / RN- 112143748

To whom it may concern:

7 R Solutions, LLC is submitting a Registration Application (RA) for the Texas Commission on Environmental Quality (TCEQ) Municipal Solid Waste (MSW) Permit Section, Waste Permits Division. This RA pertains to the operation of a Type V Liquid Waste Processing Facility located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road and School Road on the North Side of School Road.

This cover letter accompanies the following items, as required by 30 TAC 330.57 and applicable Chapter 330 rules for a RA:

- A TCEQ Core Data.
- Four Sets of mailing labels of the adjacent landowners
- A Plain Language Summary (PLS) in English and Spanish
- A completed Public Involvement Plan Form (TCEQ- 20960)
- A completed Regulatory Checklist (TCEQ Administrative and Technical Review Checklist for a Type V Liquid Waste Processing Facility RA.)
- One original and three copies of the RA, containing the required Part I Application Form, Parts I through IV.

If further information or documentation is required, please do not hesitate to contact me at (281) 725-0121.

Sincerely,

Blake Giese  
SW0007814  
7 R Solutions, LLC



**Type V Liquid Waste Processing Registration Application**  
*Austin County Waste Solutions*

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**TCEQ CORE DATA FORM (Form- 10400)**



# 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

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)			
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)			
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other	
<b>2. Customer Reference Number</b> (if issued)		<b>3. Regulated Entity Reference Number</b> (if issued)	
CN 606353829		RN 112143748	

Follow this link to search for CN or RN numbers in Central Registry\*\*

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>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).</i>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>	
7 R Solutions LLC			
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
805192923		93-3165230	
<b>11. Type of Customer:</b>		<b>Partnership:</b>	
<input type="checkbox"/> Corporation		<input checked="" type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant			
<b>15. Mailing Address:</b>			
3655 Woodley Lane			
City	Bellville	State	TX
ZIP	77418	ZIP + 4	
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
		[REDACTED]	

( 281 ) 725-0121

( ) -

### 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.)

Austin County Waste Solutions

23. Street Address of the Regulated Entity:

3655 Woodley LN

(No PO Boxes)

City	Bellville	State	TX	ZIP	77418	ZIP + 4	
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24. County

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

25. Description to

Physical Location:

1500 feed SE from intersection from Oil Field Rd and School Rd.

26. Nearest City

Bellville

State

TX

Nearest ZIP Code

77418

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

27. Latitude (N) In Decimal:

30.01717

28. Longitude (W) In Decimal:

96.0710

Degrees

30

Minutes

01

Seconds

00

Degrees

96

Minutes

07

Seconds

10

29. Primary SIC Code

(4 digits)

4952

30. Secondary SIC Code

(4 digits)

4952

31. Primary NAICS Code

(5 or 6 digits)

562991

32. Secondary NAICS Code

(5 or 6 digits)

339992

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

Septage processing and disposal

34. Mailing

3655 Woodley Ln

Address:

City	Bellville	State	TX	ZIP	77418	ZIP + 4	
------	-----------	-------	----	-----	-------	---------	--

35. E-Mail Address:

austincountywastesolutions@gmail.com

36. Telephone Number

( 281 ) 725-0121

37. Extension or Code

38. Fax Number (if applicable)

( ) -

**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.

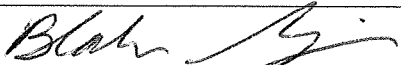
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input checked="" type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input checked="" type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

**SECTION IV: Preparer Information**

<b>40. Name:</b>	Blake Giese	<b>41. Title:</b>	Owner
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( 281 ) 725-0121		( ) -	

**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.

<b>Company:</b>	7 R Solutions LLC	<b>Job Title:</b>	Owner
<b>Name (In Print):</b>	Blake Giese	<b>Phone:</b>	( 281 ) 725- 0121
<b>Signature:</b>		<b>Date:</b>	7/25/2025



# 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

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)	
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)	
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other <b>Property Owner</b>
<b>2. Customer Reference Number</b> (if issued)	<b>3. Regulated Entity Reference Number</b> (if issued)
CN	RN

[Follow this link to search for CN or RN numbers in Central Registry\\*\\*](#)

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)	
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
<i>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).</i>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>	
Kenneth Woodley			
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input type="checkbox"/> Corporation <input type="checkbox"/> Individual Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Occupational License <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant <input checked="" type="checkbox"/> Other: Property Owner			
<b>15. Mailing Address:</b>			
2178 Wiestruck Rd			
<b>City</b>	Bellville	<b>State</b>	TX
<b>ZIP</b>	77418	<b>ZIP + 4</b>	
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
		[REDACTED]	

### 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.)

7 R Solutions, LLC

**23. Street Address of the Regulated Entity:**

3655 Woodley Ln

*(No PO Boxes)*

City	Bellville	State	TX	ZIP	77418	ZIP + 4	
------	-----------	-------	----	-----	-------	---------	--

**24. County**

Austin

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

**25. Description to Physical Location:**

**26. Nearest City**

**State**

**Nearest ZIP Code**

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

**27. Latitude (N) In Decimal:**

**28. Longitude (W) In Decimal:**

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
---------	---------	---------	---------	---------	---------

**29. Primary SIC Code**

**30. Secondary SIC Code**

**31. Primary NAICS Code**

**32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

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

**34. Mailing Address:**

**Address:**

City		State		ZIP		ZIP + 4	
------	--	-------	--	-----	--	---------	--

**35. E-Mail Address:**

**36. Telephone Number**

**37. Extension or Code**

**38. Fax Number** (if applicable)

( ) -

**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.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other:
				Property owner

**SECTION IV: Preparer Information**

<b>40. Name:</b>		<b>41. Title:</b>	
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( ) -		( ) -	

**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.

<b>Company:</b>		<b>Job Title:</b>	Property owner
<b>Name (In Print):</b>	Kenneth Woodley	<b>Phone:</b>	(979) 885- 8914
<b>Signature:</b>	<i>Kenneth Woodley</i>	<b>Date:</b>	8-5-25

**Type V Liquid Waste Processing Registration Application**  
*Austin County Waste Solutions*

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**Plain Language Summary- English**



# Texas Commission on Environmental Quality Plain Language Summary of Municipal Solid Waste Permit or Permit Amendment Application

Applicants are required by public notice rules in Title 30 Texas Administrative Code, Chapter 39, Section [39.405\(k\)](#)<sup>1</sup> to provide this summary of an application.

## A. Purpose of the Proposed Facility

The Austin County Waste Solutions ("Facility") will be operated as a Type-V Liquid Waste Processing Facility, receiving domestic septage only and processing and staged before sending for disposal at an authorized TCEQ Beneficial Field Unit (BFU).

## B. Information About the Applicant

Name: Blake Giese

Applicant Type: MSW Type V Liquid Waste Processing Facility

Facility Name: Austin County Waste Solutions

Permit Application Number:

Customer Number (CN): 606353829

Regulated Entity Reference Number (RN): 112143748

## C. Location of the Proposed Facility

Facility Address (or description of site location if no address):

3655 Woodley Lane  
Bellville, Texas 77418

Link to Map of Facility Location ([TCEQ Location Mapper](#)<sup>2</sup>): <https://arcg.is/SqvmP>

## D. Information about Facility Operation

What types of waste would be received?

The Facility will receive domestic septage only. The Facility will recover about .5% of solids trash (tampon applicators, wipes, hot wheel cars and other "trophies") will be screened, loaded in to a dumpster for disposal at an approved off-site TCEQ permitted landfill within 60 miles of the facility. The other 99.5% of the incoming domestic septage will be processed and sent to an TCEQ permitted BFU site.

What geographical area would the wastes come from?

The source these waste streams shall be made from residential and commercial septic systems within the counties of the Houston- Galveston Area and Brazos Valley Council of Governments.

<sup>1</sup> [www.tceq.texas.gov/goto/view-30tac](http://www.tceq.texas.gov/goto/view-30tac)

<sup>2</sup> [www.tceq.texas.gov/gis/hb-610-viewer](http://www.tceq.texas.gov/gis/hb-610-viewer)

What days and hours would the facility operate?

The Facility will receive and process waste at a maximum 24 hours per day, 7 days a week. Hours of operation may vary slightly based on waste receiving.

At what rate would wastes be accepted?

The maximum daily volume of incoming waste is approximately 42,000 Gallons.

How would wastes be managed?

In general, waste will be received in the West South West side of the facility via hose. The septage will be separated by screen liquid will continue and solid debris will be loaded into a dumpster to be sent to TCEQ approved landfill. Liquid will continue to move through process to be mixed with lime to 12 pH for above 30 minutes, then pumped to TCEQ approved BFU site.

## **E. Pollution Control Methods**

What methods would the facility use for containing wastes and odors, and monitoring for releases?

The design capacity of the liquid waste processing facility will not be exceeded during operation. The Facility will not accumulate liquid waste in quantities that cannot be processed in such a time as to avoid the creation of adverse conditions such as odors, insect breeding or harborage of other vectors. If such events occur, additional liquid waste will not be received until the current waste is processed. In the event that the Facility becomes inoperable for periods longer than 24 hours, the Facility will restrict the receipt of liquid waste, and incoming waste stream will be diverted to another Type V liquid Waste processing facility registered with the state.

What methods would the facility use or require for preventing litter or spills, and for cleanup of litter and spills?

We will utilize portable collection buckets under all receiving connections (cam locks) to prevent spills at connections. A concrete pad where the trucks unload will also be able to catch spills and will be cleaned up via vacuum truck. Spills will be disposed of into the beginning head works of the facility. A walk through of the receiving area will be monitored periodically throughout the day. The Facility will be walked daily for spills and wind-blown waste.

**Type V Liquid Waste Processing Registration Application**  
*Austin County Waste Solutions*

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**Plain Language Summary- Spanish**



# Comisión de Calidad Ambiental de Texas

## Resumen en lenguaje sencillo de la solicitud de permiso municipal de residuos sólidos o de modificación del permiso

Los solicitantes están obligados por las normas de notificación pública del Título 30 del Código Administrativo de Texas, Capítulo 39, Sección [39.405\(k\)](#)<sup>1</sup> a proporcionar este resumen de una solicitud.

### A. Objetivo de la instalación propuesta

Austin County Waste Solutions ("Instalación") será operada como una Instalación de Procesamiento de Residuos Líquidos Tipo-V, recibiendo solo sépticos domésticos y se procesará y preparará antes de enviarlo para su eliminación en una Unidad de Campo Benéfical (BFU) autorizada por TCEQ.

### B. Información sobre el solicitante

Nombre: Blake Giese

Tipo de solicitante: Planta de Procesamiento de Residuos Líquidos RSU Tipo V

Nombre de la instalación: Austin County Waste Solutions

Número de solicitud de permiso:

Número de cliente (CN): 606353829

Número de referencia de la entidad regulada (RN): 112143748

### C. Ubicación de la instalación propuesta

Dirección del establecimiento (o descripción de la ubicación del sitio si no hay dirección):

3655 Woodley Lane  
Bellville, Texas 77418

Enlace al mapa de ubicación de las instalaciones en [TCEQ Location Mapper](#)<sup>2</sup>:

<https://arcg.is/SqvmP>

### D. Información sobre el funcionamiento de las instalaciones

¿Qué tipos de residuos se recibirían?

La instalación solo recibirá septaje doméstico. La instalación recuperará alrededor del .5% de los sólidos, la basura / escombros serán cribados, cargados en un contenedor de basura para su eliminación en un vertedero aprobado fuera del sitio con permiso TCEQ a menos de 60 millas de la instalación. El otro 99.5% del séptico doméstico entrante se procesará y se enviará a un sitio de BFU autorizado por TCEQ.

¿De qué zona geográfica procederían los residuos?

La fuente de estos flujos de desechos provendrá de sistemas sépticos residenciales y comerciales con los condados del área de Houston-Galveston y el Consejo de Gobiernos del Valle de Brazos.

<sup>1</sup> [www.tceq.texas.gov/goto/view-30tac](http://www.tceq.texas.gov/goto/view-30tac)

<sup>2</sup> [www.tceq.texas.gov/gis/hb-610-viewer](http://www.tceq.texas.gov/gis/hb-610-viewer)

¿Qué días y horas funcionará la instalación?

La instalación recibirá y procesará los residuos como máximo las 24 horas del día, los 7 días de la semana. El horario de atención puede variar ligeramente en funci

¿A qué ritmo se aceptarían los residuos?

El volumen diario máximo de residuos entrantes es de aproximadamente 42,000 galones.

¿Cómo se gestionarían los residuos?

En general, los residuos se recibirán en el lado oeste suroeste de la instalación a través de una manguera. El líquido de la pantalla continuará y los escombros sólidos se cargarán en un contenedor de basura para enviarlos al vertedero aprobado por TCEQ. El líquido continuará moviéndose a través del proceso para mezclarse con cal a pH 12 durante más de 30 minutos, luego se bombeará al sitio de BFU aprobado por TCEQ.

## **E. Métodos de control de la contaminación**

¿Qué métodos utilizará la instalación para contener los residuos y los olores, y para controlar las emisiones?

La capacidad de diseño de la instalación de procesamiento de residuos líquidos no se excederá durante la operación. La Instalación no acumulará desechos líquidos en cantidades que no puedan ser procesadas en un tiempo tal que evite la creación de condiciones adversas como olores, reproducción de insectos o refugio de otros vectores. Si ocurren tales eventos, no se recibirán residuos líquidos adicionales hasta que se procese el residuo actual. En el caso de que la Instalación quede inoperativa por períodos superiores a 24 horas, la Instalación restringirá la recepción de desechos líquidos a la Instalación y el flujo de desechos entrante se desviará a otra Instalación de Procesamiento de Desechos Líquidos Tipo V registrada en el e

¿Qué métodos utilizaría o exigiría la instalación para evitar la basura o los derrames, y para la limpieza de la basura y los derrames?

Utilizaremos cubos de recolección portátiles debajo de todas las conexiones de recepción (camlocks) para evitar derrames en las conexiones. Una plataforma de hormigón donde los camiones descargan también podrá recoger los derrames y se limpiará con un camión de vacío. Los derrames se eliminarán en las obras iniciales de la instalación. Un recorrido por el área de recepción será monitoreado periódicamente diariamente. La instalación será recorrida diariamente para detectar otros derrames y desechos arrastrados por el viento.

**Type V Liquid Waste Processing Registration Application**

*Austin County Waste Solutions*

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**TCEQ Public Involvement Plan Form (Form- 20960)**



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.

The MSW property boundaries and the 1/4 mile notifications are all within the Woodley Ranch property. Being all on Ranch property, it seems to 7R Solutions, there is no significant public impact.

### 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)

**Type V Liquid Waste Processing Registration Application**  
*Austin County Waste Solutions*

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**Regulatory Checklist**

## **PART I- APPLICATION FORM**

**Part I Application Form (Form 0650)**



**Texas Commission on Environmental Quality**  
**Part I Application Form for New Permit, Permit**  
**Amendment, or Registration for a**  
**Municipal Solid Waste Facility**

Instructions for completing this Part I Application Form are provided in TCEQ 00650-instr<sup>1</sup>. Include a Core Data Form (TCEQ 10400)<sup>2</sup> with the application for the facility owner, and Core Data Forms for the operator and property owner if different from the facility owner. If you have questions, contact the Municipal Solid Waste (MSW) Permits Section by email to mswper@tceq.texas.gov, or by phone at 512-239-2335. Rules cited on this form are in Title 30 Texas Administrative Code (30 TAC) and may be viewed online at www.tceq.texas.gov/goto/view-30tac.

**Application Tracking Information**

Facility Regulated Entity Name<sup>3</sup>:  
 Austin County Waste Solutions

Site Operator (Permittee or Registrant Name)<sup>4</sup>:  
 7 R Solutions LLC

MSW Authorization Number: \_\_\_\_\_

Initial Submission Date: 7/11/2025

Revision Date: 7/25/2025

**Application Data**

<b>1. Submission Type</b>
<input type="checkbox"/> Initial Submission <input checked="" type="checkbox"/> Notice of Deficiency (NOD) Response

<b>2. Authorization Type</b>
<input type="checkbox"/> Permit <input checked="" type="checkbox"/> Registration

<b>3. Application Type</b>
<input type="checkbox"/> New Permit <input type="checkbox"/> Permit Major Amendment <input type="checkbox"/> Permit Limited Scope Major Amendment <input checked="" type="checkbox"/> New Registration

<sup>1</sup> www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf

<sup>2</sup> www.tceq.texas.gov/goto/coredata

<sup>3</sup> Facility Regulated Entity Name must match the Regulated Entity Name indicated on the TCEQ Core Data Form.

<sup>4</sup> Site Operator is defined in 30 TAC 330.3(148) as the holder of, or the applicant for, an authorization (or license) for a municipal solid waste facility.

<b>4. Application Fee</b>
<b>Amount</b>
<input type="checkbox"/> \$2,050—New Landfill Permits, and Landfill Permit Major Amendments Described in 30 TAC 305.62(j)(1)
<input checked="" type="checkbox"/> \$150—Other Permits, Permit Amendments, Limited Scope Major Amendments, and all Registrations
<b>Payment Method</b>
<input type="checkbox"/> Online through ePay portal <a href="http://www3.tceq.texas.gov/epay/">www3.tceq.texas.gov/epay/</a> Enter ePay Trace Number: _____
<input checked="" type="checkbox"/> Check (send to TCEQ Financial Administration Division) Payor Name: <u>Blake Giese</u> Check Number: <u>1131</u>

<b>5. Electronic Versions of Application</b>
TCEQ will publish electronic versions of applications online. Applicants are required to submit complete clean (unmarked) copies of their applications in electronic format once they are administratively complete and technically complete. Additionally, applicants must provide electronic copies of responses to notices of deficiencies for publishing online. (Refer to instructions for this form for how to submit electronically.)

<b>6. Party Responsible for Publishing Notice</b>
Indicate who will be responsible for publishing notice:
<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Agent in Service <input type="checkbox"/> Consultant
Contact Name: <u>Blake Giese</u>
Title: <u>Owner</u>
Email Address: <u>[REDACTED]</u>

<b>7. Alternative Language Notice</b>
Use the Alternative Language Checklist on Public Notice Verification Form TCEQ-20244-Waste-NORI, TCEQ-20244-Waste-NAPD, or TCEQ-20244-Waste-NAORPM available at <a href="http://www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html">www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html</a> to determine if an alternative language notice is required.
Is an alternative language notice required for this application?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Indicate the alternative language: <u>Spanish</u>

<b>8. Public Place for Copy of Application</b>			
Name of the Public Place: <u>Austin County Courthouse</u>			
Physical Address: <u>1 East Main Street</u>			
City: <u>Bellville</u>	County: <u>Austin</u>	State: <u>TX</u>	Zip Code: <u>77418</u>
Phone Number: <u>979-865-5911</u>			

<b>9. Consolidated Permit Processing</b>	
Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If "Yes", indicate the other TCEQ program authorizations requested: Application to register a site for the beneficial use of Domestic Septage.	

<b>10. Confidential Documents</b>	
Does the application contain confidential documents?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."	

**11. Permits and Construction Approvals**

Mark the following table to indicate status of other permits or approvals.

**Table 1. Permits and Construction Approvals.**

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under Texas Solid Waste Disposal Act			X
Underground Injection Control Program under Texas Injection Well Act			X
National Pollutant Discharge Elimination System Program under Clean Water Act; Waste Discharge Program under Texas Water Code, Chapter 26			X
Prevention of Significant Deterioration Program under Federal Clean Air Act (FCAA); Nonattainment Program under the FCAA			X
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA			X
Ocean Dumping Permits under Marine Protection Research and Sanctuaries Act			X
Dredge or Fill Permits under Clean Water Act			X
Licenses under the Texas Radiation Control Act			X
Other (describe):			
Other (describe):			

**12. General Information About the Facility**

Facility Regulated Entity Name:  
Austin County Waste Solutions

Contact Name: Blake Giese Title: Owner

MSW Authorization Number (if existing): \_\_\_\_\_

Regulated Entity Reference Number: **RN** 112143748

Physical or Street Address (if available): 3655 Woodley Ln

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 281-725-0121

Latitude (decimal degrees, six decimal places): 30.0100

Longitude (decimal degrees, six decimal places): 96.0710

Elevation (above mean sea level): 260 feet (benchmark elevation for landfills)

Description of facility location with respect to known or easily identifiable landmarks:  
1500' from the intersection of Oil Field Rd and School Rd on the left. Entrance to facility is a bright orange cattle guard. The facility is located 0.86 miles northeast of the orange cattle guard on the right.

Access routes from the nearest United States or state highway to the facility:

- FM 331 to Oil Field Rd to School Rd.
- FM 159 to Walton Rd to Oil Field Rd to School Rd.
- FM 159 to Racoon Bend Rd to Oil Field Rd to School Rd.

**Coastal Management Program**

Is the facility within the Coastal Management Program boundary?

- Yes  No

**13. Facility Types**

Facility types are described in 30 TAC 330.5(a).

Indicate facility type (select all that apply):

- Type I     Type IV     Type V  
 Type IAE     Type IVAE     Type VI

**14. Activities Conducted at the Facility**

- Storage     Processing     Disposal

**15. Facility Waste Management Units**

Check the box for each type of waste management unit proposed.

<input type="checkbox"/> Landfill Unit(s)	<input type="checkbox"/> Container(s)
<input type="checkbox"/> Incinerator(s)	<input type="checkbox"/> Roll-off Boxes
<input type="checkbox"/> Class 1 Landfill Unit(s)	<input type="checkbox"/> Surface Impoundment
<input checked="" type="checkbox"/> Process Tank(s)	<input type="checkbox"/> Autoclave(s)
<input type="checkbox"/> Storage Tank(s)	<input type="checkbox"/> Refrigeration Unit(s)
<input type="checkbox"/> Tipping Floor	<input type="checkbox"/> Mobile Processing Unit(s)
<input type="checkbox"/> Storage Area	<input type="checkbox"/> Compost Pile(s) or Vessel(s)
<input type="checkbox"/> Other (specify):	

**16. Description of Proposed Facility or Changes to Existing Facility**

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

The facility will be on 2 acres. We will alternating between two fraq tanks (21,000 Gallons each) 42000 Gallons total capacity. We will be utilizing bar screens for trash collection. The trash will be put into a dumpster to go to a TCEQ authorized landfill. We will have a Lime tank to hold "slurry" hydrated lime. We will have a pump to transfer the lime to the fraq tank to raise the pH to 12 or more for 30 minutes to treat domestic septage. After pH meets 30 TAC 312.82 (C) , and checked again the sludge will be pumped out through an irrigation traveler (rain gun) for beneficial land application (seperate TCEQ BFU site permit). There will be a berm around the fraq tanks to contain any spills. Septic trucks will back up to two of our 4 hoses to offload.

**17. Facility Contact Information**

**Site Operator (Permittee or Registrant)**

Name: 7 R Solutions LLC  
Customer Reference Number: **CN** 606353829  
Contact Name: Blake Giese Title: Owner  
Mailing Address: 3655 Woodley Ln  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 281-725-0121  
Email Address: [REDACTED]

**Operator (if different from Site Operator)**

Name: \_\_\_\_\_  
Customer Reference Number: **CN** \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_

**Consultant (if applicable)**

Firm Name: \_\_\_\_\_  
Consultant Name: \_\_\_\_\_  
Texas Board of Professional Engineers Firm Registration Number: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_

**Agent in Service (required for out-of-state applicants)**

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: TX Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_

**18. Facility Supervisor License**

Indicate the level of Municipal Solid Waste Facility Supervisor license, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, Subchapter F that the individual who supervises or manages the operations will obtain prior to commencing operations.

Class A Supervisor License  Class B Supervisor License

**19. Facility Ownership**

**Facility Owner**

Does the Site Operator (Permittee or Registrant) own all the facility units and all the facility property?

Yes  No

If "No", provide the following information for the other owner, and include a Core Data Form for the other owner. Attach supplemental sheet if more than one other owner.

Other Owner Name: Kenneth Woodley

What is Owned:  Facility Units  Property

Other (describe): \_\_\_\_\_

Mailing Address: 2178 Wiestruck Rd

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 979-885-8914

Email Address: [REDACTED]

**20. Other Government Entities Information**

**Texas Department of Transportation**

District: 13

District Engineer's Name: Martin C. Horst, P.E.

Mailing Address: 403 Huck St.

City: Yoakum County: Yoakum State: TX Zip Code: 77995

Phone Number: 361-293-4300

Email Address: martin.horst@txdot.gov

**Local Government Authority Responsible for Road Maintenance (if applicable)**

Government or Agency Name: Austin County Commissioner Precinct 1

Contact Person's Name: Greg Mikel

Mailing Address: 754 W Main

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 979-270-6825

Email Address: [REDACTED]

**City Mayor Information**

City Mayor's Name: James Harrison  
Mailing Address: 30 S. Holland  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 979-865-3136  
Email Address: [REDACTED]

**City Health Authority**

Authority Name: Health Dept Public Health Clinic  
Contact Person's Name: Shawn Jackson  
Contact Person's Title: City Administrator  
Mailing Address: 30 S. Holland St.  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 979-865-3136  
Email Address: [REDACTED]

**County Judge Information**

County Judge's Name: Tim Lapham  
Mailing Address: One East Main  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 979-865-5911  
Email Address: [REDACTED]

**County Health Authority**

Agency Name: Public Health Regional Office (Region 6)  
Contact Person's Name: Dr. Don Bosse  
Contact Person's Title: \_\_\_\_\_  
Mailing Address: 5425 Polk St. Suite J  
City: Houston County: Harris State: TX Zip Code: 77023  
Phone Number: 713-767-3000  
Email Address: [REDACTED]

**State Representative Information**

House District Number: 85  
State Representative's Name: Stan Kitzman  
District Office Mailing Address: One East Main Suite 202  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 979-865-4560  
Email Address: [REDACTED]

**State Senator Information**

District Number: 18  
State Senator's Name: Lois Kolkhorst  
District Office Mailing Address: 2000 S. Market St. #101  
City: Brenham County: Washington State: TX Zip Code: 77833  
Phone Number: 979-251-7888  
Email Address: [REDACTED]

**Council of Governments (COG)**

COG Name: Houston-Galveston Area Council  
COG Representative's Name: Mr. Chuck Wemple  
COG Representative's Title: Member  
Mailing Address: 3555 Timmons Lane, Suite 120  
City: Houston County: Harris State: TX Zip Code: 77227  
Phone Number: 713-993-4514  
Email Address: [REDACTED]

**River Basin Authority**

Authority Name: Brazos River Authority  
Contact Person's Name: David Collinworth  
Watershed Sub-Basin Name: \_\_\_\_\_  
Mailing Address: 4600 Cobbs Dr.  
City: Waco County: McLennan State: TX Zip Code: 76710  
Phone Number: 254-761-3101  
Email Address: [REDACTED]

**Local Drainage or Flood Management Authority**

Authority Name: Austin County Emergency Management  
Contact Person's Name: Roy Mercer  
Mailing Address: 1 East Main St  
City: Bellville County: Austin State: TX Zip Code: 77418  
Phone Number: 979-865-6463  
Email Address: [REDACTED]

**U.S. Army Corps of Engineers District**

Indicate the U.S. Army Corps of Engineers district in which the facility is located:

- Albuquerque, NM
- Galveston, TX
- Fort Worth, TX
- Tulsa, OK

**Local Government Jurisdiction**

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: Bellville TX

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing, or disposal of municipal or industrial solid waste?

Yes     No

If "Yes", provide a copy of the ordinance as an attachment.

PAGE REVISION DATE: 4/4/2026

**Applicant Signature Page**

**Site Operator (Permittee or Registrant Name) or Authorized Signatory**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Blake Giese Title: OWNER

Email Address: [REDACTED]

Signature: [Signature] Date: 4/6/2026

**Authorization by Facility Owner for Operator to Submit Application**

To be completed by the facility owner if the application is submitted by an operator who is not the facility owner.

I am the owner of the facility that is the subject of this application, and authorize the operator, \_\_\_\_\_ to submit this application pursuant to 30 TAC 305.43(c).

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Notary**

SUBSCRIBED AND SWORN to before me by the said \_\_\_\_\_

On this 6 day of April, 2026

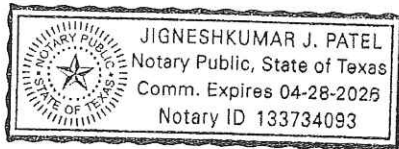
My commission expires on the 6 day of April, 2026

[Signature]

Notary Public in and for

Frostbend Texas (notary's jurisdiction, including county and state)

Note: Application Must Bear Signature & Seal of Notary Public



**Property Owner Affidavit**

**Property Owner Affidavit for Landfill Facility**

I acknowledge in accordance with 30 TAC 330.59(d)(2) that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility. For a facility where waste will remain after closure, I acknowledge that I have a responsibility to file with the county deed records an affidavit to the public advising that the land will be used for a solid waste facility prior to the time that the facility actually begins operating as a municipal solid waste landfill facility, and to file a final recording upon completion of disposal operations and closure of the landfill units according to 30 TAC 330.19 (relating to Deed Recordation). I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and post-closure care period for the purpose of inspection and maintenance.

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Property Owner Affidavit for Processing Facility**

I acknowledge in accordance with 30 TAC 330.59(d)(2) that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and post-closure care period for the purpose of inspection and maintenance.

Name: Kenneth Woodley

Email Address: \_\_\_\_\_

Signature: Kenneth Woodley Date: 8-6-25

**Notary**

SUBSCRIBED AND SWORN to before me by the said Kenneth Woodley

On this 6<sup>th</sup> day of August, 2025

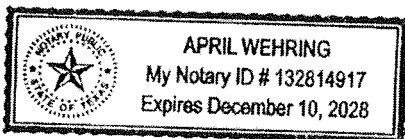
My commission expires on the 12<sup>th</sup> day of December 2028

April Wehring

Notary Public in and for

Austin Co, Texas (notary's jurisdiction, including county and state)

Note: Application Must Bear Signature & Seal of Notary Public



**Part I Attachments**

Refer to instruction document TCEQ 00650-instr<sup>5</sup> for professional engineer seal requirements.

**Attachments Table 1. Required attachments.**

<b>Required Attachments</b>	<b>Attachment Number</b>
Supplementary Technical Report [30 TAC 305.45(a)(8)]	Part 1 Report
Property Legal Description [30 TAC 330.59(d)(1)]	Attachment IB-3
Property Metes and Bounds Description [30 TAC 330.59(d)(1)]	Attachment IB-2
Facility Legal Description [30 TAC 330.59(d)(1)]	Attachment IB
Facility Metes and Bounds Description [30 TAC 330.59(d)(1)]	Attachment IB-1
Metes and Bounds Drawings [30 TAC 330.59(d)(1)]	Attachment IB
On-Site Easements Drawing [30 TAC 330.61(c)(10)]	Attachment IB
Land Ownership Map [30 TAC 330.59(c)(3)]	Attachment IA-2
Landowners List [30 TAC 330.59(c)(3)]	Attachment IA-1
Mailing Labels (in electronic file, in Avery 5160 format; see instructions) [30 TAC 281.5(7)]	Attachment IA-3
General Location Maps [30 TAC 330.59(c)(2)]	Figure I-1
Texas Department of Transportation (TxDOT) County Map [30 TAC 330.59(c)(2)]	Figure I-2
General Topographic Maps [30 TAC 330.61(e)]	Figure I-4
Verification of Legal Status / Legal Authority (certificate of incorporation) [30 TAC 281.5 and 330.59(e)]	Attachment IC
Evidence of Competency [30 TAC 330.59(f)]	Part I Report
Signatory Authority Documentation [30 TAC 305.44 and 330.59(g)]	Part I Application
TCEQ Core Data Form(s) TCEQ-10400 <sup>6</sup> [30 TAC 281.5(7)]	With Cover Letter

<sup>5</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf)

<sup>6</sup> [www.tceq.texas.gov/permitting/central\\_registry/guidance.html](http://www.tceq.texas.gov/permitting/central_registry/guidance.html)

**Attachments Table 2. Additional attachments as applicable.**

Additional Attachments (select all that apply and add others as needed)	Attachment Number
<input checked="" type="checkbox"/> Plain Language Summary Form TCEQ-20947 <sup>7</sup> [30 TAC 39.405(k)]	With Cover Letter
<input checked="" type="checkbox"/> Public Involvement Plan Form TCEQ-20960 <sup>8</sup>	With Cover Letter
<input checked="" type="checkbox"/> Fee Payment Receipt	Attachment IE
<input type="checkbox"/> Confidential Documents	N/A
<input type="checkbox"/> Waste Storage, Processing and Disposal Ordinances [Texas Health and Safety Code, Section 363.112 <sup>9</sup> ]	N/A
<input type="checkbox"/> Final Plat Record of Property Description [30 TAC 330.59(d)(1)(B)]	N/A
Other (describe):	
Other (describe):	
Other (describe):	

<sup>7</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20947-instr.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20947-instr.pdf)

<sup>8</sup> [www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/pip-form-tceq-20960.pdf](http://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/pip-form-tceq-20960.pdf)  
[www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/instructions-for-pip-form-tceq-20960.pdf](http://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/instructions-for-pip-form-tceq-20960.pdf)

<sup>9</sup> [statutes.capitol.texas.gov/Docs/HS/htm/HS.363.htm#363.112](http://statutes.capitol.texas.gov/Docs/HS/htm/HS.363.htm#363.112)

MSW 43039  
Revised 4/4/26 NOD3  
Tracking 31816673

# TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART I REPORT

**Austin County Waste Solutions**  
**Type V Liquid Waste Processing Facility**  
**Bellville, Texas**  
**Austin County**

---

Prepared by:

**7 R Solutions, LLC**  
**3655 Woodley Ln**  
**Bellville, Texas 77418**

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*4/7/26*

Intended for Permitting Purposes Only  
December 2024

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4/7/26

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4/7/26

## 1. Purpose of the Application

The purpose of this Registration Application (“RA”) is to register a new Type V **Austin County Waste Solutions** liquid waste processing (“Facility or “Site”) located in Austin County, Texas. The RA is being submitted to the Texas Commission on Environmental Quality (TCEQ) Waste Permits Division by 7 R Solutions, LLC.

## 2. Supplementary Technical Report

30 TAC 305.45(a)(8)

A supplementary technical report is being submitted in connection with this application. The report has been prepared by either a Texas licensed professional engineer, a Texas licensed professional geoscientist, or by a qualified person who is competent and experienced in the field to which the application relates and thoroughly familiar with the operation or project for which the application is made.

The **Part I Report** has been prepared in accordance with 30 TAC 330.59, pertaining to the contents of Part I of the application.

### 2.1 Facilities and Systems

30 TAC 305.45(a)(8)(A), 30 TAC 330.9(f)(1)

The Facility meets the requirements for a registration of a Type V Liquid Waste Processing Facility as it will recover at least ten percent or more by weight or weight equivalent of the total incoming waste stream for reuse or recycling and disposes of the remaining waste stream to a TCEQ approved landfill.

The Facility will receive domestic septage only from residential and commercial activities, which will be screened and then processed for debris and reusable liquid for beneficial land use. The reusable waste stream will then be processed with the addition of lime (as required to meet 30 TAC 312.82(c)) then transported via pipe to an approved TCEQ Beneficial Land Unit (BFU) site. The non reusable waste stream (debris) will be containerized and shipped off site to an approved TCEQ landfill for disposal.

### 2.2 Waste and Volume Rate

30 TAC 305.45(a)(8)(B)

The Austin County Waste Solutions Facility has a projected daily waste acceptance rate of 42,000 Gallons (GAL) Waste volume and rates are discussed in greater detail in the Part II report.

**2.3 Other Authorizations**

30 TAC 330.55(a)

The construction and operation of this Facility will comply with Subchapter U of 30 TAC Chapter 330 (relating to Standard Air Permits for Municipal Solids Waste Landfill Facilities and Transfer Stations) or other approved air authorizations.

7 R Solutions, LLC will consult with the TCEQ Air Permits Division on or before the date that the municipal solids waste application is filed with the executive director.

Austin County Waste Solutions (ACWS) understands that all liquids resulting from the operation of solid waste facilities shall be disposed of in a manner that will not cause surface water or groundwater pollution. The Facilities shall provide for the treatment of wastewaters resulting from waste management activities and from cleaning and washing. The Facility (ACWS) shall ensure that storm water and wastewater management is in compliance with the regulations of the commission.

**2.4 Delinquent Fees**

30 TAC 330.59(h), 330.671, 330.675

7 R Solutions, LLC and Austin County Waste Solutions have no delinquent TCEQ fees at this time.

### 3. Facility Location

30 TAC 330.59(b)(1-3)

The Austin County Waste Solutions Facility is a proposed 2-acre Type V Liquid Processing Facility in Austin County, Texas. The proposed site is located within a 2,200- acre ranch.

The Facility is located outside of the extraterritorial jurisdiction of the City of Bellville, 1500 feet Southeast of the intersection of Oil Field Road and School Road. The Facility entrance is located 0.86 miles East on School Road on the North Side. The site location is shown on **Figure I-1 and I-2**. Additionally, an aerial photograph showing the site is provided as **Figure I-3**, and the general topographical map is included as **Figure I-4**.

The Facility is located on property that is owned by Kenneth Woodley. Authorization or lease agreement is provided in **Attachment ID**. The mailing/physical address for the Facility property is:

Austin County Waste Solutions  
c/o 7 R Solutions, LLC  
3655 Woodley, Lane  
Bellville, Texas 77418

The geographic coordinates of the facility are:

Latitude (degrees, minutes, seconds): 30,01,00  
Longitude (degrees, minutes, seconds): 96,07,10

## 4. Maps

30 TAC 330.59(c)(1-3)

### 4.1 General Location Maps

The following maps collectively comply with the requirements 30 TAC 330.59(c)(1-2).

A General Location Map showing the county maps prepared by the Texas Department of Transportation (TxDOT) is provided as **Figure I-1**. The scale is of one-half inch equals one mile. TxDOT also provided a second more close map **Figure I-2**.

An aerial Photograph is included as **Figure I-3**. A Drainage, Pipeline, Access, and Utility Easement Location Map is included as **Figure I-5**.

### 4.2 Land Ownership

A Land Ownership Map is provided as **Figure IA-1, Attachment IA-2**. The Austin County Appraisal District Tax Rolls and Tax Maps were reviewed by 7 R Solutions, LLC to determine land and mineral interest ownership of properties within a one-quarter mile radius of the registration boundary. The Austin County Appraisal District records do not show mineral rights ownership records. Property ownership derived from real property appraisal records as listed on the date that the RA was filed.

The list of adjacent and potentially affected land owners, which corresponds to the Land Ownership Map, along with pre-printed mailing labels as required by 30 TAC 330.59(c)(3)(B), is included as **Attachments IA-1 and IA-3**.

### 4.3 Other Maps

Maps required per 30 TAC.45(6) will be provided as figures in **Part II** of this application

## **5. Property Owner and Operator Information** 30 TAC 330.59(d)

Austin County Waste Solutions is located on property owned by Kenneth Woodley. Documentation capturing the permission and acknowledgements are provided as **Attachment ID**. As indicated the property owner has given authorization for 7 R Solutions, LLC to operate Austin County Waste Solutions, “The Facility”.

7 R Solutions, LLC is currently applying for a Type V Liquid Waste Processing Facility, which will allow the facility to accept domestic septage. The waste will be sorted for unusable “debris” and reusable materials, limed, then disposed in an approved TCEQ Beneficial Land Unit (BFU). The remaining usable “debris” materials will be loaded for disposal and disposed at an approved off-site TCEQ permitted solid and waste landfill.

### **5.1 Legal Description** 30 TAC 330.59(d)(1)

The legal description and the Austin County Clerk’s file numbers for the property are provided in **Attachment IB**. A signed and sealed drawing of the registration boundary metes and bounds, provided by **A-Survey, Inc.** is included in **Attachment IB**. The registration boundary metes and bounds description was also provided by A-Survey, Inc., from a ground survey dated December 20,2024.

#### **5.1.1 Easements**

There currently no easements located on the two acres boundary of the processing facility. Since there is no current construction or buildings on the property **Attachment IB** is the most current drawing with no easements. Upon request from the TCEQ after facility is built, 7 R Solutions, LLC. will provide an updated drawing.

### **5.2 Property Owner Affidavit** 30 TAC 330.59(d)(2)

A signed property owner affidavit from Kenneth Woodley is included as **Attachment ID**.

The property owner, Kenneth Woodley, acknowledges that the State of Texas may hold the property owner responsible for the operation, maintenance, and closure and post-closure care of the facility. The affidavit also acknowledges that the State of Texas shall have access to the property during the active life and post-closure care period. If required after closure for the maintenance and inspection of the Facility.

**5.3 Legal Authority**

**30 TAC 330.59(e)**

The verification of the legal status of the applicant is provided in Attachment IC.

**5.4 Ownership Status**

**30 TAC 330.45(a)(2)**

The property is 100% owned by The Woodley Living Trust.

**5.5 Response to NOD – 24**

Gallons of domestic septage will be monitored daily for each of the 3 fields to ensure that the gallons do not exceed the agronomic rate approved by the TCEQ Water Quality Division. Quarterly Reports will be provided to the TCEQ Water Quality Division for their records. Once a field gets to 90% of the annual capacity, we will stop land application until the next TCEQ year begins. During the beginning stages of the operation fields will be closely monitored daily to ensure there is enough capacity for the incoming septage. If the operator assumes capacity may be reached the operator will request to add an additional field from the TCEQ Water Quality Division. In the event that the fields are at capacity and no additional fields are added the facility will close until the next TCEQ year begins. Customers will be directed to dispose at another TCEQ approved facility.

Processed septage will be pumped (T6 Gorman-Rupp Pump) from the facility to an irrigation traveler (rain gun) for even application.

## 6. Evidence of Competency

30 TAC 330.59(f)

The following evidence of 7 R Solutions, LLC competency to operate the facility is provided below.

### 6.1 Solid Waste Facility Operation

30 TAC 330.59(f)(1), 30 TAC 330.59(f)(5)

Blake Giese, owner of 7R Solutions, LLC has been managing the operations of the following facility.

SITE NAME	SITE TYPE	PERMIT/REG#	COUNTY	DATES OF OPERATION
Waller Lime Stabilization Facility	(Lime Stabilization) Liquid Processing Facility	WQ0004538000	Waller	01/04/2021-05/27/2023
El Celoso	Class B Land Application	WQ0004518000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 710084	Class B Land Application	WQ0004450000	Waller	01/04/2021-05/27/2023
Ortega Ranch	Class B Land Application	WQ0005222000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 4	Class B Land Application	WQ0004448000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 3	Class B Land Application	WQ0004445000	Waller	01/04/2021-05/27/2023
Jeffries Ranch	Class B Land Application	WQ0004454000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 1	Class B Land Application	WQ0005248000	Waller	01/04/2021-05/27/2023

LANDFILLING/EARTHMOVING EQUIPMENT TYPES	PERSONNEL EXPERIENCE OR LICENSES
Sprint Sand & Clay/ Dozer, Excavator, Off Road Dump Truck	Operations Manager

7 R Solutions, LLC is applying for a Type V Liquid Waste Processing Facility Registration Application (RA); however, this facility has not been constructed or operated.

### 6.2 Management and Personnel

30 TAC 330.59(f)(2-4)

The names of the owner and operator principals and supervisors are provided below, along with previous affiliations with other organizations engaged in solid waste activities.

**Mr. Blake Giese**

**Mr. Kenneth Woodley**

Both owners of 7 R Solutions, LLC (listed above) have not owned or operated (with any direct financial interest) any facilities in any state, territory, or countries within the past 10 years.

Per 30 TAC 330.59(f)(3), a licensed solid waste facility supervisor will be employed before commencing Facility operations.

MSW Class B Operator License

Blake Giese

SW0007814

**6.3 Equipment**

30 TAC 330.59(f)(5-6)

These regulation citations are applicable to landfills and mobile liquid waste processing units only, not processes facilities.

## 7. Application

### 7.1 Text Appointments

30 TAC 330.59(g)

7 R Solution, LLC has no appointments.

### 7.2 Existing Permits & Authorizations

30 TAC 330.45(a)(7)

Table I-2. Existing Permits & Authorizations

Status	Program
N/A	Hazardous Waste Management program under the Texas Solid Waste Disposal Act
N/A	Underground Injection Control (UIC) program under the Texas Injection Well Act
N/A	National Pollutant Discharge Elimination System (NPDES) program under the Federal Clean Water Act (CWA) and Waste Discharge program under the Texas Water Code, Chapter 26
N/A	Prevention of Significant Deterioration (PSD) Program under the Federal Clean Air Act
N/A	Nonattainment Program under the Federal Clean Air Act
N/A	National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the Federal Clean Air Act
N/A	Ocean dumping permits under the Marine Protection Research and Sanctions Act
N/A	Dredge or fill permits under the Federal Clean Water Act
N/A	License under the Texas Radiation Control Act
N/A	NPDES Stormwater Pollution Control 402 Permit
N/A	U. S. Army Corps of Engineers Dredge and Fill Permit 404
APP	TCEQ Air Quality Permit or Registration
N/A	Other environmental permits (provide list)
APP	Municipal Solid Waste Processing Plant
APP	Texas Pollutant Discharge Elimination System (TPDES) General Stormwater Permit

Notes: RQD = Required  
 APP = Applied for  
 REC = Received  
 N/A = Not Applicable

### 7.3 Application Fees

30 TAC 330.59(h)

The application fee for a permit, registration, amendment, modification, or temporary authorization is \$150. This fee was paid by check in the mail. A copy of the check is **Attachment IF**. This was check number 1131 from the account of Blake and Jordan Giese. It was mailed on 12/23/24 via USPS with a tracking number of 9505 5109 9842 4358 6297 45.

**Not Applicable Sections;**

None

## **PART I - ATTACHMENTS**

IA	Land Ownership List
IB	Legal Description
IC	Legal Authority
ID	Property Owner Affidavit
IE	Application Fee Payment

## **ATTACHMENT IA**

### **Attachment IA** Land Ownership

Type V Liquid Waste Processing Registration Application,  
Attachment IA, Land Ownership  
*Austin County Waste Solutions*

---

**ATTACHMENT IA-1**

**Attachment IA-1**

Land Ownership List

Land Ownership List  
Austin County Waste Solutions  
Type V Liquid Waste Processing Facility  
Quarter Mile Affected Landowners

1. Woodley Living Trust  
Ronald B & Carolin  
Woodley Trustees  
122 S Mathews St  
Bellville, TX 77418
2. Woodley Kenneth & Stacy  
2178 Wietstruck RD  
Bellville, TX 77418

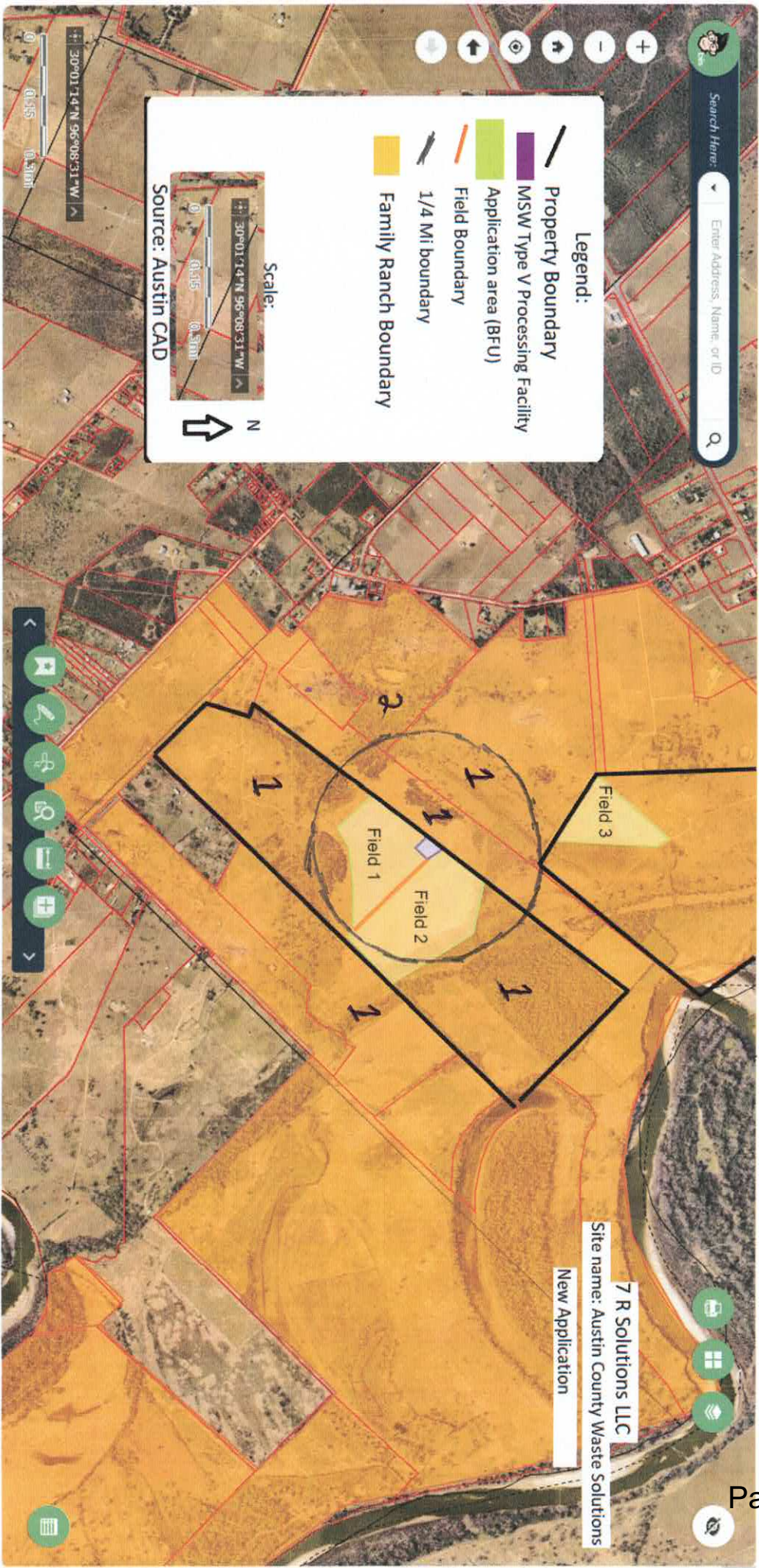
Type V Liquid Waste Processing Registration Application,  
Attachment IA, Land Ownership  
*Austin County Waste Solutions*

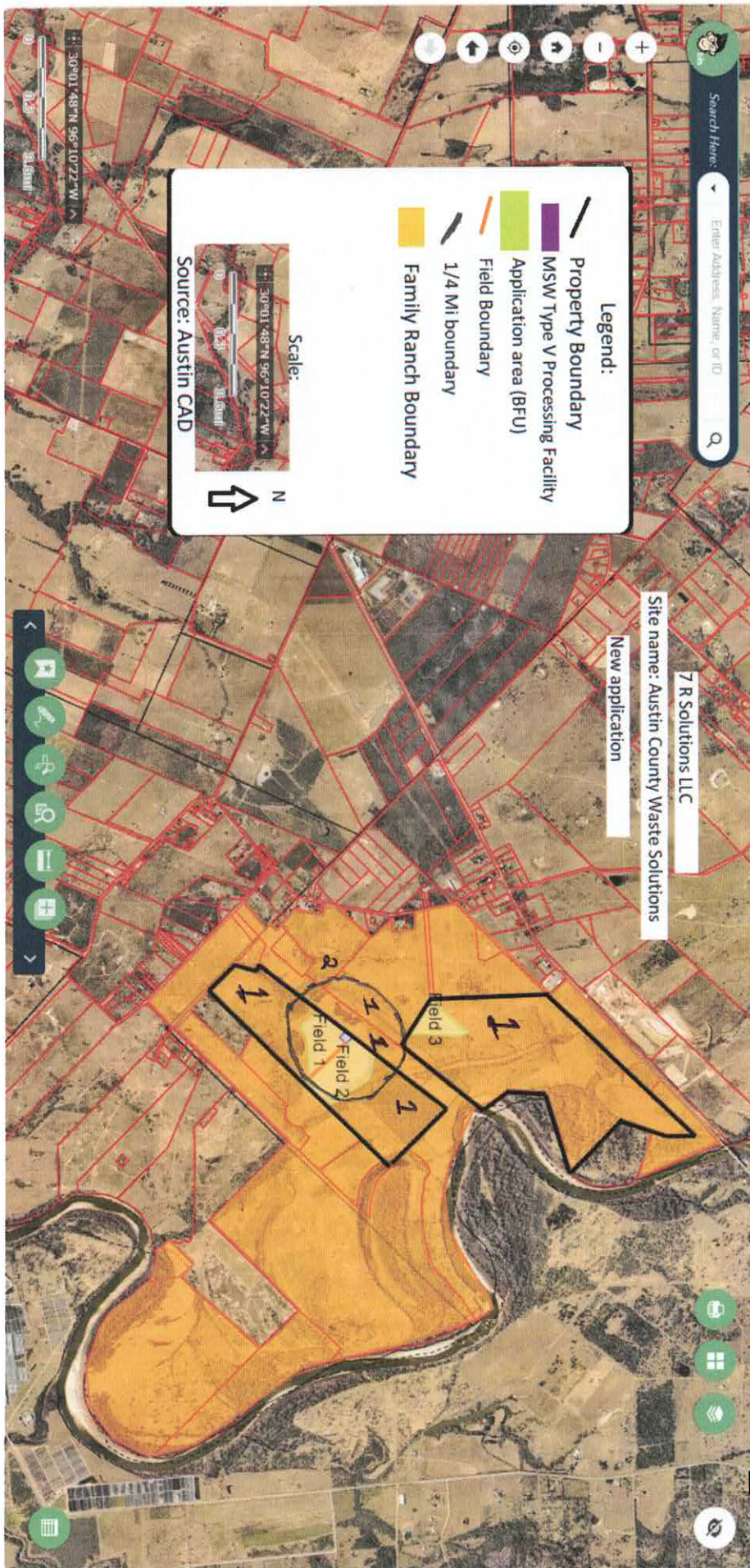
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**ATTACHMENT IA-2**

**Attachment IA-2**

Land Ownership Map





**Type V Liquid Waste Processing Registration Application,  
Attachment IA, Land Ownership**  
*Austin County Waste Solutions*

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**ATTACHMENT IA-3**

**Attachment IA-3**

Mailing Labels - Pre-Printed

# Attachment 10

Revised 7/25/2025 Prelim – Review 31732866

WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418

## **ATTACHMENT IB**

### **Attachment IB**

Legal Description

Type V Liquid Waste Processing Registration Application,  
Attachment IB Legal Description  
*Austin County Waste Solutions*

---

**ATTACHMENT IB-1**

**Attachment IB-1**  
2 Acre MSW Facility Boundary  
&  
Access Road

METES AND BOUNDS  
DESCRIPTION  
OF  
2.000 ACRES  
(OFFICE SITE PARCEL)  
IN THE  
WILLIAM SMEATHERS SURVEY, ABSTRACT 90  
AUSTIN COUNTY, TEXAS



BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

**BEGINNING** at a ½ inch iron rod set for corner, same being the **POINT OF BEGINNING** and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a ½ inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

**THENCE**, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

**THENCE**, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

**THENCE**, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a ½ inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

 Continued  
 Page 1 of 2

19 N. Miller Bellville, Texas 77418



1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

Part I Report- 23

- Page 2 of 2
- Metes and Bounds Description of 2.000 Acres
- In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the **POINT OF BEGINNING** of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

**PROJECT NO. 24160A – OFFICE SITE PARCEL**

**DECEMBER 20, 2024**

**::COMPILED BY::**



19 N. Miller Bellville, Texas 77418



1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

METES AND BOUNDS  
DESCRIPTION  
OF  
6.379 ACRE  
(ACCESS ROAD PARCEL)  
IN THE  
WILLIAM SMEATHERS SURVEY, ABSTRACT 90  
AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 6.379 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being in the aggregate of that certain called 3.4 – 7.4 acre parcel as described by instrument recorded in Volume 709, Page 698 of the Official Records of Austin County, Texas, and that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 6.379 acre tract being more particularly described by metes and bounds, as follows, to wit::

COMMENCING at a ½ inch iron rod set for corner, same being the POINT OF BEGINNING and most southerly southwest terminus of the 60 Ft. Access Road Parcel herein described, same being in the northeasterly right-of-way line of East School Road (Right-of-Way Varies), and same being in a southwesterly line of said called 3.4 – 7.4 acre parcel;

THENCE, departing said northeasterly right-of-way line of said East School Road, and with the centerline of said called 6.379 acre 60 Ft. Access Road Parcel, the following:

THENCE, North 47 degrees 21 minutes 28 seconds East, a distance of 1,006.44 feet to a ½ inch iron rod set for corner, same being a point of curvature in the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 300.00 feet, an arc length of 184.60 feet, a chord length of 181.70 feet, a chord bearing of North 64 degrees 59 minutes 10 seconds East, a delta angle of 35 degrees 15 minutes 23 seconds to a ½ inch iron rod set for corner at a point of tangency;

THENCE, North 82 degrees 36 minutes 51 seconds East, a distance of 560.40 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the left;

✚ Page 1 of 2  
✚ Continued



- Page 2 of 2
- Metes and Bounds Description of a 6.379 Acre Parcel
- In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, along the arc of a curve to the left, a radius of 250.00 feet, an arc length of 245.89 feet, a chord length of 236.10 feet, a chord bearing of North 54 degrees 26 minutes 14 seconds East, a delta angle of 56 degrees 21 minutes 13 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

THENCE, North 26 degrees 15 minutes 38 seconds East, a distance of 641.48 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 500.00 feet, an arc length of 95.31 feet, a chord length of 95.16 feet, a chord bearing of North 31 degrees 43 minutes 16 seconds East, a delta angle of 10 degrees 55 minutes 17 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

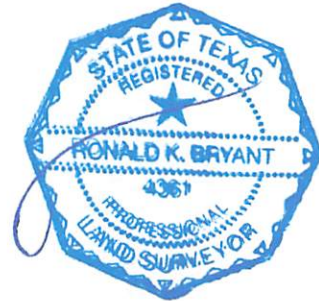
THENCE, North 37 degrees 00 minutes 44 seconds East, a distance of 1,896.72 feet to a ½ inch iron rod set for corner, same being the point of terminus of said 6.379 acre 60 Ft. Access Road Parcel;

All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – ACCESS ROAD PARCEL

DECEMBER 20, 2024

∴COMPILED BY∴



19 N. Miller Bellville, Texas 77418



1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

# BOUNDARY & IMPROVEMENTS SURVEY PLAT OF 2.000 Acres - OFFICE SITE PARCEL AND A 6.379 Acre Access Road Parcel IN THE WILLIAM SMEATHERS SURVEY, A-90 AUSTIN COUNTY, TEXAS



### LEGEND

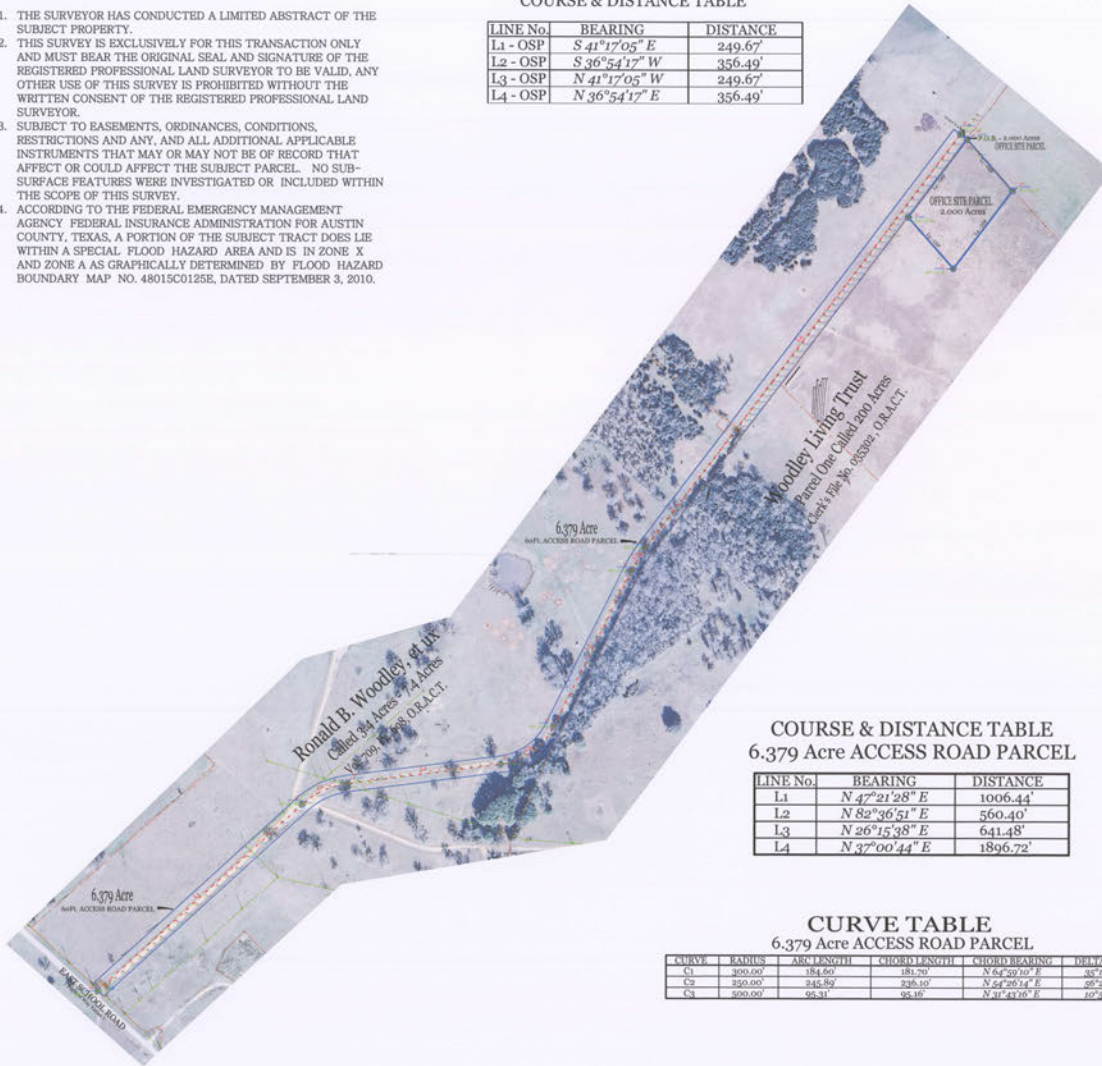
- POWER POLE
- OVERHEAD POWER LINE
- GUY WIRE
- BARBED WIRE FENCE
- GRAVEL
- 1/2" IRON ROD SET

### NOTES:

1. THE SURVEYOR HAS CONDUCTED A LIMITED ABSTRACT OF THE SUBJECT PROPERTY.
2. THIS SURVEY IS EXCLUSIVELY FOR THIS TRANSACTION ONLY AND MUST BEAR THE ORIGINAL SEAL AND SIGNATURE OF THE REGISTERED PROFESSIONAL LAND SURVEYOR TO BE VALID, ANY OTHER USE OF THIS SURVEY IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE REGISTERED PROFESSIONAL LAND SURVEYOR.
3. SUBJECT TO EASEMENTS, ORDINANCES, CONDITIONS, RESTRICTIONS AND ANY, AND ALL ADDITIONAL APPLICABLE INSTRUMENTS THAT MAY OR MAY NOT BE OF RECORD THAT AFFECT OR COULD AFFECT THE SUBJECT PARCEL. NO SUB-SURFACE FEATURES WERE INVESTIGATED OR INCLUDED WITHIN THE SCOPE OF THIS SURVEY.
4. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION FOR AUSTIN COUNTY, TEXAS, A PORTION OF THE SUBJECT TRACT DOES LIE WITHIN A SPECIAL FLOOD HAZARD AREA AND IS IN ZONE X AND ZONE A AS GRAPHICALLY DETERMINED BY FLOOD HAZARD BOUNDARY MAP NO. 48015C0125E, DATED SEPTEMBER 3, 2010.

### 2.000 Acre OFFICE SITE PARCEL COURSE & DISTANCE TABLE

LINE No.	BEARING	DISTANCE
L1 - OSP	S 41°17'05" E	249.67'
L2 - OSP	S 36°54'17" W	356.49'
L3 - OSP	N 41°17'05" W	249.67'
L4 - OSP	N 36°54'17" E	356.49'



### COURSE & DISTANCE TABLE 6.379 Acre ACCESS ROAD PARCEL

LINE No.	BEARING	DISTANCE
L1	N 47°21'28" E	1006.44'
L2	N 82°26'51" E	560.40'
L3	N 26°15'38" E	641.48'
L4	N 37°00'44" E	1896.72'

### CURVE TABLE 6.379 Acre ACCESS ROAD PARCEL

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	OFF-SET ANGLE
C1	300.00'	184.60'	181.70'	N 64°29'10" E	33°25'24"
C2	300.00'	245.89'	236.10'	N 64°26'14" E	69°21'14"
C3	300.00'	95.41'	95.16'	N 41°41'06" E	10°53'17"

I HEREBY STATE THAT THIS SURVEY PLAT REPRESENTS THE RESULTS OF AN ACTUAL SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND THAT NO VISIBLE ENCROACHMENTS WERE FOUND, EXCEPT AS SHOWN AND/OR DEPICTED HEREON.

12-20-2024

RONALD K. BRYANT  
REGISTERED PROFESSIONAL LAND SURVEYOR  
TEXAS REGISTRATION No. 4361



### A-SURVEY, INC. "THE MASTERS OF MEASUREMENT"

19 NORTH MILLER  
BELLVILLE, TEXAS 77418  
979-865-8111  
1-800-4-A-SURVEY  
4ASURVEY.COM  
4ASURVEY@GMAIL.COM  
T.B.P.E.L.S. FIRM REG. LIC. No. 10076700  
PROJECT No.: 24160A

TITLE Co.: T.B.D.	GF No.: NA
CLIENT: KENNETH WOODLEY	
6.379 Acre ACCESS ROAD PARCEL - 2.000 Acre OFFICE SITE PARCEL	
ADDRESS: REMMERT ROAD, BELLVILLE, AUSTIN COUNTY, TEXAS	

COPYRIGHT © 2024 A-SURVEY, Inc. ALL RIGHTS RESERVED

Type V Liquid Waste Processing Registration Application,  
Attachment IB Legal Description  
*Austin County Waste Solutions*

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**ATTACHMENT IB-2**

**Attachment IB-2**

Whole Ranch Property Boundary

**ACCESS EASEMENT AGREEMENT**

**DATE:** August 14, 2025

**GRANTOR:** RONALD BLAIR WOODLEY and CAROLIN ANN WOODLEY, Co-Trustees of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018  
122 South Mathews Street  
Bellville, Austin County, Texas 77418

**GRANTEE:** KENNETH WAYNE WOODLEY  
P.O. Box 213  
Bellville, Austin County, Texas 77418

**DOMINANT ESTATE PROPERTY:**

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 2.00 acres of land, more or less, being more fully described by metes and bounds in **Exhibit "A"** attached hereto and incorporated herein for all purposed pertinent.

**PROPERTY SUBJECT TO THE EASEMENT:**

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 198.00 acres of land, more or less, being all that certain 200.00 acres of land, more or less, more fully described as Parcel One in Deed dated August 9, 2003, from Bellville Independent School District to Ronald Blair Woodley and Carolin Ann Woodley, Trustees of The Woodley Living Trust U/T/A dated September 26, 1994, as amended, recorded in under Clerk's File No. 035302, Official Records of Austin County, Texas; LESS HOWEVER all that certain 2.00 acres of land being more fully described by metes and bound on **Exhibit "A"** attached hereto.

**EASEMENT PURPOSE:** Providing free and uninterrupted vehicular and pedestrian ingress to and egress from the Dominant Estate Property over and across the Property Subject to Easement to and from East School Road, a public road in Austin County, Texas.

**CONSIDERATION:** Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by Grantor.

**EXCEPTIONS TO CONVEYANCE AND WARRANTY:** All liens, leases, reservations, restrictions, easements, covenants, and rights of way, and other restrictions which may be duly of record in the office of the County Clerk of Austin County, Texas, and that may be located on the Property Subject to the Easement.

**GRANT OF EASEMENT:** Grantor, for the Consideration and subject to the Exceptions to Conveyance and Warranty and the terms of this Access Easement Agreement, grants and conveys to Grantee and Grantee's heirs, executors, administrators, successors and assigns an access easement over, upon, and across that certain 60-foot wide strip of land described more fully by metes and bounds on **Exhibit "B"**

attached hereto and incorporated herein for all purposes pertinent, which is situated within the Property Subject to the Easement described hereinabove for the Easement Purpose and for the benefit of the Dominant Estate Property, together with all and singular the rights and appurtenances thereto in any way belonging (the "Easement"), to have and hold the Easement to Grantee and Grantee's heirs, executors, administrators, successors and assigns forever. Grantor binds Grantor and Grantor's successors and assigns to warrant and forever defend title to the Easement in Grantee and Grantee's heirs, executors, administrators, successors and assigns against every person whomsoever lawfully claiming or to claim the Easement or any part thereof, except as to the Exceptions to Conveyance and Warranty.

**TERMS AND CONDITIONS:** The following terms and conditions apply to the Easement granted by this Access Easement Agreement ("Agreement"):

1. Character of Easement. The Easement is appurtenant to and runs with all and any portion of the Dominant Estate Property, whether or not the Easement is referenced or described in any conveyance of all or such portion of the Dominant Estate Property. The Easement is nonexclusive and is for the benefit of Grantee and Grantee's heirs, executors, administrators, successors and assigns who own all or any part of the surface of the Dominant Estate Property (hereinafter the "Holder") during the Duration of Easement.

2. Duration of Easement. The Duration of the Easement is perpetual.

3. Reservation of Rights. Grantor reserves for Grantor and Grantor's successors and assigns the right to continue to use and enjoy the surface of the Easement Property for ingress, egress, and access purposes and all other purposes that do not interfere with or interrupt the use or enjoyment of the Easement by Holder for the Easement Purpose. Grantor further reserves for Grantor and Grantor's successors and assigns the right to use all or part of the Easement in conjunction with Holder and the right to convey to others the right to use all or part of the Easement in conjunction with Holder, as long as such further conveyance is subject to the terms of this Agreement.

4. Road Maintenance. Any road within the Easement shall be constructed, maintained, repaired, and improved at the sole cost of Grantee unless Grantor and Grantee otherwise mutually agree.

5. Equitable Rights of Enforcement. The Easement may be enforced by restraining orders and injunctions (temporary or permanent) prohibiting interference and commanding compliance. Restraining orders and injunctions will be obtainable on proof of the existence of interference or threatened interference, without the necessity of proof of inadequacy of legal remedies or irreparable harm, provided, however, that the act of obtaining an injunction or restraining order will not be deemed to be an election of remedies or a waiver of any other rights or remedies available at law or in equity.

6. Attorney's Fees. If either Party retains an attorney to enforce this Agreement, the prevailing Party at the time of trial is entitled to recover reasonable attorney's fees and expenses.

7. Binding Effect. This Agreement binds and inures to the benefit of the Parties and their respective heirs, executors, administrators, successors and assigns.

8. Choice of Law. This Agreement will be construed under the laws of the State of Texas, without regard to choice-of-law rules of any jurisdiction. Venue is in Austin County, Texas.

9. Waiver of Default. It is not a waiver of or consent to default if the non-defaulting Party fails to declare immediately a default or delays in taking any action. Pursuit of any remedies set forth in this Agreement does not preclude pursuit of other remedies in this Agreement or provided by law.

10. Further Assurances. Each signatory Party agrees to execute and deliver any additional documents and instruments and to perform any additional acts necessary or appropriate to perform all of the terms, provisions, and conditions of this Agreement and all transactions contemplated by this Agreement.

11. Indemnity. Each Party agrees to indemnify, defend, and hold the other Party harmless from any loss, attorney's fees, expenses, or claims attributable to breach or default of any provision of this Agreement by the indemnifying Party.

12. Integration. This Agreement contains the complete agreement of the Parties and cannot be varied except by written agreement of the Parties. The Parties agree that there are no oral agreements, representations, or warranties that are not expressly set forth in this Agreement.

13. Legal Construction. If any provision in this Agreement is for any reason unenforceable, to the extent the unenforceability does not destroy the basis of the bargain among the Parties, the unenforceability will not affect any other provision hereof, and this Agreement will be construed as if the unenforceable provision had never been a part of the Agreement. Whenever context requires, the singular will include the plural and neuter include the masculine or feminine gender, and vice versa. Article and section headings in this Agreement are for reference only and are not intended to restrict or define the text of any section. This Agreement will not be construed more or less favorably between the Parties by reason of authorship or origin of language.

14. Counterparts. This Agreement may be executed in any number of counterparts with the same effect as if all signatory Parties had signed the same document. All counterparts will be construed together and will constitute one and the same instrument.

*This instrument was prepared based on information furnished by the parties, and no independent title search has been done. Grantor and Grantee are hereby notified that the law firm of Upchurch & Yates, LLP, has not performed a title examination of the Property and does not represent or warrant in any manner status of title to the Property, and expressly makes no representation or warranty as to the existence or non-existence of any title defect or encumbrances related to the Property.*

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]  
[SIGNATURES AND ACKNOWLEDGMENTS ON THE FOLLOWING PAGE]

**SIGNATURE AND ACKNOWLEDGMENT PAGE OF ACCESS EASEMENT AGREEMENT**

**GRANTOR:**

Ronald Blair Woodley Co-Trustee  
RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

Carolyn Ann Woodley - Co Trustee  
CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

**GRANTEE:**

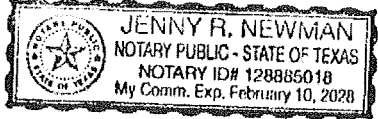
Kenneth Wayne Woodley  
KENNETH WAYNE WOODLEY

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

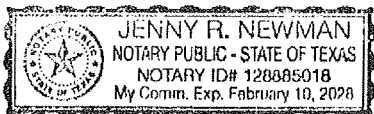


Jenny R. Newman  
Notary Public, State of TEXAS

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

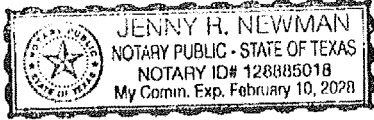


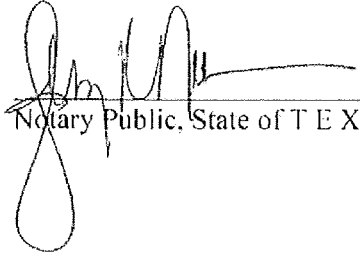
Jenny R. Newman  
Notary Public, State of TEXAS

STATE OF TEXAS

COUNTY OF WASHINGTON

This instrument was acknowledged before me on August 14, 2025, by KENNETH WAYNE WOODLEY.



  
\_\_\_\_\_  
Notary Public, State of T E X A S

**AFTER RECORDING RETURN TO:**

UPCHURCH & YATES, LLP  
315 South Park Street  
Brenham, Texas 77833  
Telephone (979) 316-1300  
Telefax (979) 316-1038

**Exhibit "A"**

**METES AND BOUNDS**  
**DESCRIPTION**  
**OF**  
**2.000 ACRES**  
**(OFFICE SITE PARCEL)**  
**IN THE**  
**WILLIAM SMEATHERS SURVEY, ABSTRACT 90**  
**AUSTIN COUNTY, TEXAS**

BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

BEGINNING at a 1/2 inch iron rod set for corner, same being the POINT OF BEGINNING and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a 1/2 inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

THENCE, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

THENCE, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

THENCE, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

⚡ Continued  
 ⚡ Page 1 of 2



19 N. Miller Bellville, Texas 77418

1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

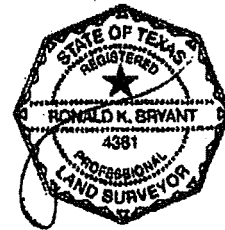
- ✦ Page 2 of 2
- ✦ Metes and Bounds Description of 2.000 Acres
- ✦ In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the **POINT OF BEGINNING** of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

**PROJECT NO. 24160A - OFFICE SITE PARCEL**

**DECEMBER 20, 2024**

**:COMPILED BY:**



19 N. Miller Bellville, Texas 77418



1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

**Exhibit "B"**

**METES AND BOUNDS**

**DESCRIPTION**

**OF**

**6.379 ACRE**

**(ACCESS ROAD PARCEL)**

**IN THE**

**WILLIAM SMEATHERS SURVEY, ABSTRACT 90**

**AUSTIN COUNTY, TEXAS**

**BEING** all that certain tract or parcel of land containing 6.379 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being in the aggregate of that certain called 3.4 - 7.4 acre parcel as described by instrument recorded in Volume 709, Page 698 of the Official Records of Austin County, Texas, and that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 6.379 acre tract being more particularly described by metes and bounds, as follows, to wit:

**COMMENCING** at a 1/2 inch iron rod set for corner, same being the **POINT OF BEGINNING** and most southerly southwest terminus of the 60 Ft. Access Road Parcel herein described, same being in the northeasterly right-of-way line of East School Road (Right-of-Way Varies), and same being in a southwesterly line of said called 3.4 - 7.4 acre parcel;

**THENCE**, departing said northeasterly right-of-way line of said East School Road, and with the centerline of said called 6.379 acre 60 Ft. Access Road Parcel, the following:

**THENCE**, North 47 degrees 21 minutes 28 seconds East, a distance of 1,006.44 feet to a 1/2 inch iron rod set for corner, same being a point of curvature in the arc of a curve to the right;

**THENCE**, along the arc of a curve to the right, a radius of 300.00 feet, an arc length of 184.60 feet, a chord length of 181.70 feet, a chord bearing of North 64 degrees 59 minutes 10 seconds East, a delta angle of 35 degrees 15 minutes 23 seconds to a 1/2 inch iron rod set for corner at a point of tangency;

**THENCE**, North 82 degrees 36 minutes 51 seconds East, a distance of 560.40 feet to a 1/2 inch iron rod set for corner, same being a point of curvature on the arc of a curve to the left;

⚡ Page 1 of 2  
⚡ Continued



⚡ Page 2 of 2  
⚡ Metes and Bounds Description of a 6.379 Acre Parcel  
⚡ In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, along the arc of a curve to the left, a radius of 250.00 feet, an arc length of 245.89 feet, a chord length of 236.10 feet, a chord bearing of North 54 degrees 26 minutes 14 seconds East, a delta angle of 56 degrees 21 minutes 13 seconds to a 1/2 inch iron rod set for corner, same being a point of tangency;

THENCE, North 26 degrees 15 minutes 38 seconds East, a distance of 641.48 feet to a 1/2 inch iron rod set for corner, same being a point of curvature on the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 500.00 feet, an arc length of 95.31 feet, a chord length of 95.16 feet, a chord bearing of North 31 degrees 43 minutes 16 seconds East, a delta angle of 10 degrees 55 minutes 17 seconds to a 1/2 inch iron rod set for corner, same being a point of tangency;

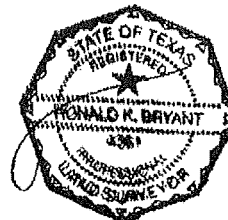
THENCE, North 37 degrees 00 minutes 44 seconds East, a distance of 1,896.72 feet to a 1/2 inch iron rod set for corner, same being the point of terminus of said 6.379 acre 60 Ft. Access Road Parcel;

All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A - ACCESS ROAD PARCEL

DECEMBER 20, 2024

COMPILED BY:



19 N. Miller Bellville, Texas 77418

1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

## FILED AND RECORDED

**Instrument Number:** 253771

**Instrument Type:** AGREEMENT

**Filing and Recording Date:** 08/14/2025 12:04 PM

**Number of Pages:** 10

**GRANTOR** WOODLEY, RONALD BLAIR

**GRANTEE** WOODLEY, KENNETH WAYNE

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Austin County, Texas.



*Diane Day*

\_\_\_\_\_  
Diane Day, County Clerk  
Austin County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the Clerk.

**DO NOT DESTROY - Warning, this document is part of the Official Public Record.**

**NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.**

**GIFT DEED**

**DATE:** August 14, 2025

**GRANTOR:** RONALD BLAIR WOODLEY and CAROLIN ANN WOODLEY, Co-Trustees of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended  
122 South Mathews Street  
Bellville, Austin County, Texas 77418

**GRANTEE:** KENNETH WAYNE WOODLEY, as his sole and separate property  
P.O. Box 213  
Bellville, Austin County, Texas 77418

**CONSIDERATION:** The love and affection which Grantor has and bears towards their son, Kenneth Wayne Woodley.

**PROPERTY (INCLUDING ANY IMPROVEMENTS)**

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 2.000 acres of land, more or less, being more fully described by metes and bound in Exhibit "A" attached hereto and incorporated herein for all purposed pertinent.

**RESERVATIONS FROM CONVEYANCE:** NONE

**EXCEPTIONS TO CONVEYANCE AND WARRANTY:**

This conveyance is executed by Grantor and accepted by Grantee as being subject to all liens, leases, reservations, restrictions, easements, covenants, rights of way, and other restrictions and encumbrances which may be duly of record in the office of the County Clerk of Austin County, Texas, that affect the Property and/or that may be located on the Property.

Grantor, subject to the Reservations from Conveyance and Exceptions to Conveyance and Warranty, gives, grants, transfers and conveys to Grantee, as his sole and separate property, the Property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee and Grantee's heirs, executors, administrators, successors and assigns forever. Grantor binds Grantor and Grantor's successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, executors, administrators, successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through, or under Grantor, but not otherwise, except as to the Reservations from Conveyance and Exceptions to Conveyance and Warranty.

In connection with this deed, Grantor and Grantee are entering into an access easement agreement that provides access for the Property to East School Road, a public road.

*This instrument was prepared based on information furnished by Grantor, and no independent title search has been done. Grantor and Grantee are hereby notified that the law firm of Upchurch & Yates, LLP, has not performed a title examination of the Property and does not represent or warrant in any manner status of title to the Property, and expressly makes no representation or warranty as to the existence or non-existence of any title defect or encumbrances related to the Property.*

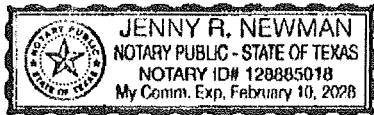
*Ronald Blair Woodley Co-Trustee*  
RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

*Carolyn Ann Woodley - Co Trustee*  
CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

**STATE OF TEXAS**

**COUNTY OF WASHINGTON**

The foregoing instrument was acknowledged before me on August 14, 2025, by RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

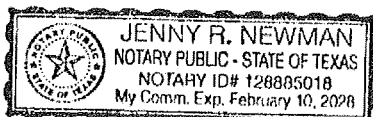


*Jenny R. Newman*  
\_\_\_\_\_  
Notary Public, State of T E X A S

**STATE OF TEXAS**

**COUNTY OF WASHINGTON**

The foregoing instrument was acknowledged before me on August 14, 2025, by CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.



*Jenny R. Newman*  
\_\_\_\_\_  
Notary Public, State of T E X A S

**AFTER RECORDING RETURN TO:**  
UPCHURCH & YATES, LLP  
315 South Park Street  
Brenham, Texas 77833  
Telephone (979) 316-1300  
Telefax (979) 316-1038

**Exhibit "A"**

**METES AND BOUNDS**

**DESCRIPTION**

**OF**

**2.000 ACRES**

**(OFFICE SITE PARCEL)**

**IN THE**

**WILLIAM SMEATHERS SURVEY, ABSTRACT 90**

**AUSTIN COUNTY, TEXAS**

BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

BEGINNING at a 1/2 inch iron rod set for corner, same being the POINT OF BEGINNING and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a 1/2 inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

THENCE, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

THENCE, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

THENCE, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

Continued  
Page 1 of 2



19 N. Miller Bellville, Texas 77418

1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

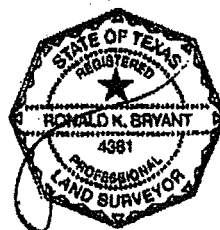
- ✦ Page 2 of 2
- ✦ Metes and Bounds Description of 2.000 Acres
- ✦ In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the POINT OF BEGINNING of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

**PROJECT NO. 24160A – OFFICE SITE PARCEL**

**DECEMBER 20, 2024**

**COMPILED BY:**



19 N. Miller Bellville, Texas 77418

1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

## FILED AND RECORDED

**Instrument Number:** 253770

**Instrument Type:** DEED

**Filing and Recording Date:** 08/14/2025 12:04 PM

**Number of Pages:** 5

**GRANTOR** WOODLEY, RONALD BLAIR

**GRANTEE** WOODLEY, KENNETH WAYNE

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Austin County, Texas.



*Diane Day*

\_\_\_\_\_  
Diane Day, County Clerk  
Austin County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the Clerk.

**DO NOT DESTROY - Warning, this document is part of the Official Public Record.**

Type V Liquid Waste Processing Registration Application,  
Attachment IB Legal Description  
*Austin County Waste Solutions*

---

**ATTACHMENT IB-3**

**Attachment IB-3**

Austin CAD Legal Ownership

## Austin County CAD

Not updated at time of revisions.

**ATTACHMENT IC**

**Attachment IC**

Legal Authority



## Office of the Secretary of State

### CERTIFICATE OF FILING OF

7 R Solutions LLC  
File Number: 805192923

The undersigned, as Secretary of State of Texas, hereby certifies that a Certificate of Formation for the above named Domestic Limited Liability Company (LLC) has been received in this office and has been found to conform to the applicable provisions of law.

ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing filing effective on the date shown below.

The issuance of this certificate does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 08/21/2023

Effective: 08/21/2023



A handwritten signature in black ink that reads "Jane Nelson".

Jane Nelson  
Secretary of State

Part I Report- 47

**EXHIBIT A**  
**MEMBERS of 7 R SOLUTIONS LLC**

<b><u>Member's Name and Address</u></b>	<b><u>Initial Capital Contribution</u></b>	<b><u>Percentage Interest</u></b>
KENNETH W. WOODLEY 2178 Wietstruck Road Bellville, Texas 77418	As reflected in the books of the Company	25%
STACY P. WOODLEY 2178 Wietstruck Road Bellville, Texas 77418	As reflected in the books of the Company	25%
BLAKE M. GIESE 388 Oil Field Road Bellville, Texas 77418	As reflected in the books of the Company	25%
JORDAN E. GIESE 388 Oil Field Road Bellville, Texas 77418	As reflected in the books of the Company	25%

**ATTACHMENT ID**

**Attachment ID**  
Property Owner Affidavit

Property Owner Affidavit

"I, Kenneth Woodley, as \_\_\_\_\_,  
(Printed Signatory Name) (Signatory Capacity)

As authorized signatory for \_\_\_\_\_,

Acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life, and after closure for the purpose of inspection and maintenance, if required.

Kenneth Woodley  
(Property Owner's Signature)

8-5-25  
(Date)

## **ATTACHMENT IE**

### **Attachment IE** Application Fee Payment

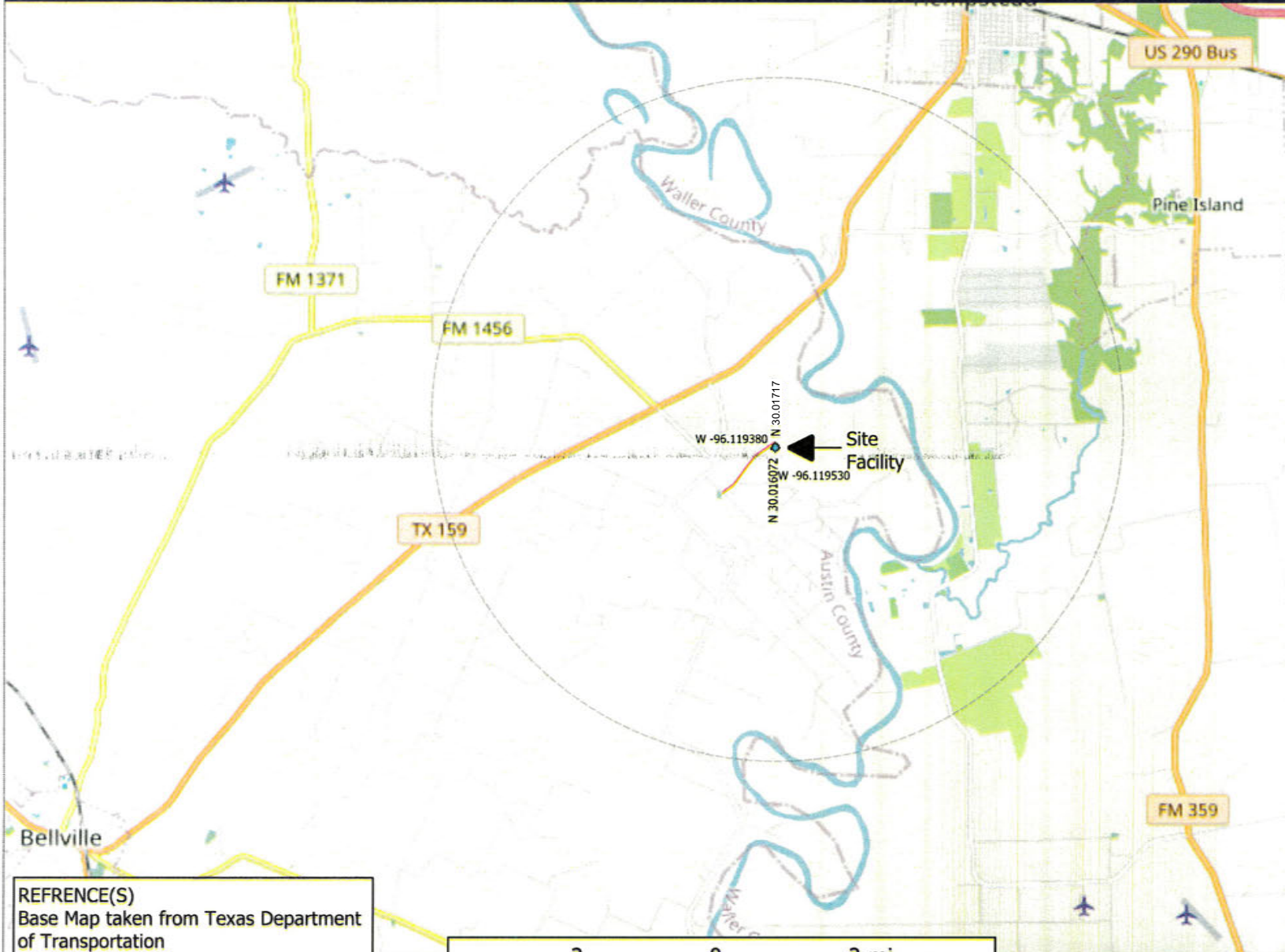
**Type V Liquid Waste Processing Registration Application, Part I**  
*Austin County Waste Solutions*

---

**PART I - FIGURES**

- I-1            General Location Map
- I-2            Site Location Map
- I-3            Aerial Photograph
- I-4            General Topographic Map
- I-5            Easements and Drainage Map

# Austin County Waste Solutions- General Map Location



- Legend:
- Site Location
  - Access Road to Facility
  - 5 Mile Radius

Seal:

Title: General Location Map  
 Austin County Waste Solutions  
 Type V REGISTRATION  
 APPLICATION  
 Austin County, Texas

Prepared for: 7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

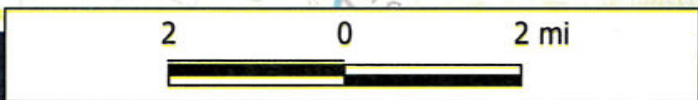
Prepared by: BMG Scale: AS SHOWN

Revised: Figure

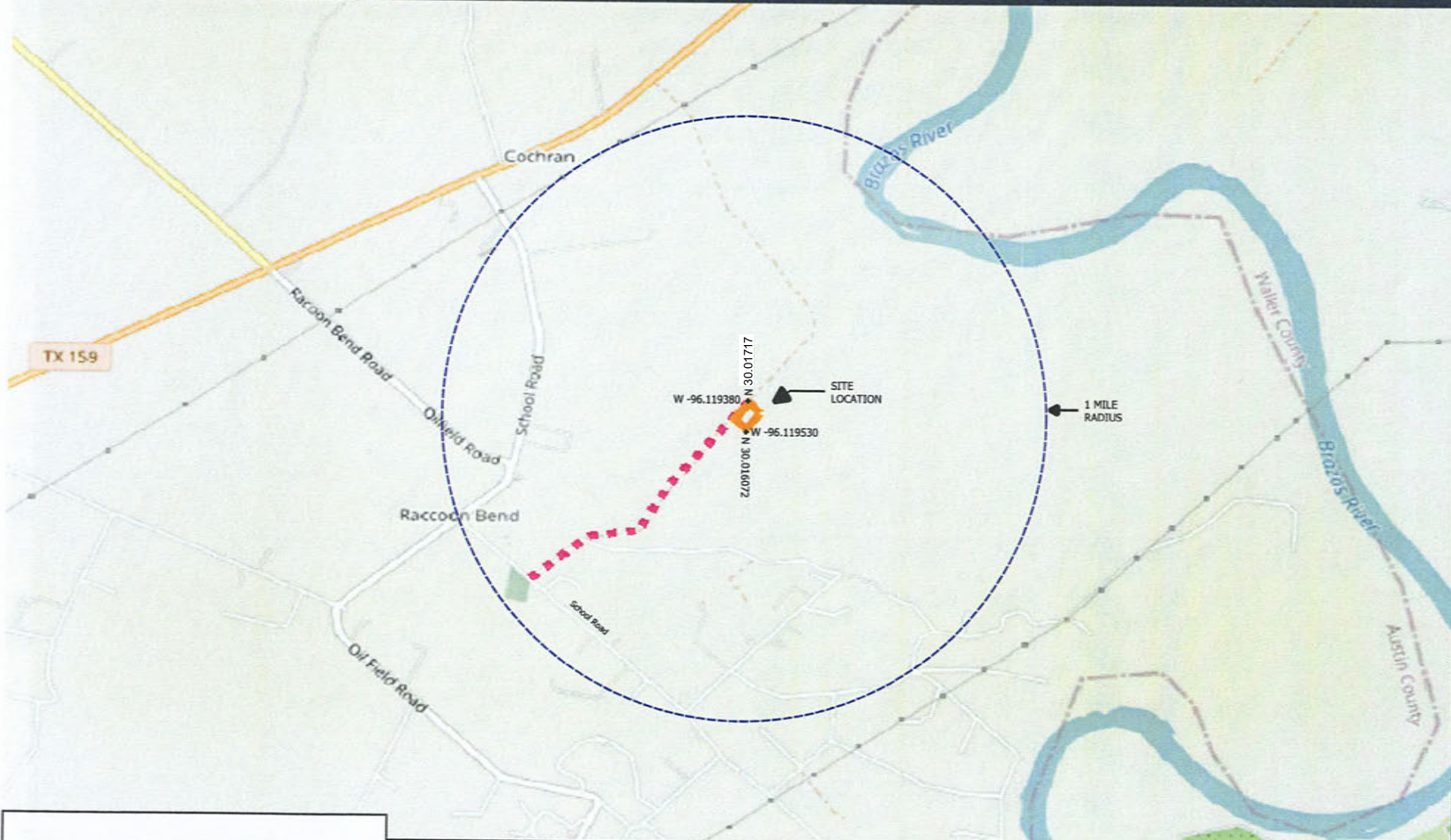
File: ACWS Liquid Processing Facility- General location map.pdf

I-1

REFERENCE(S)  
 Base Map taken from Texas Department of Transportation  
 2025 State Wide Planning Map



# Austin County Waste Solutions- Site Location Map

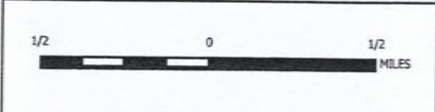


**Legend:**

- Site Location Boundaries
- - - Access Road to Facility
- - - 1 Mile Radius

Seal:

F-10131  
7/10/25



REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)

Title: Site Location Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

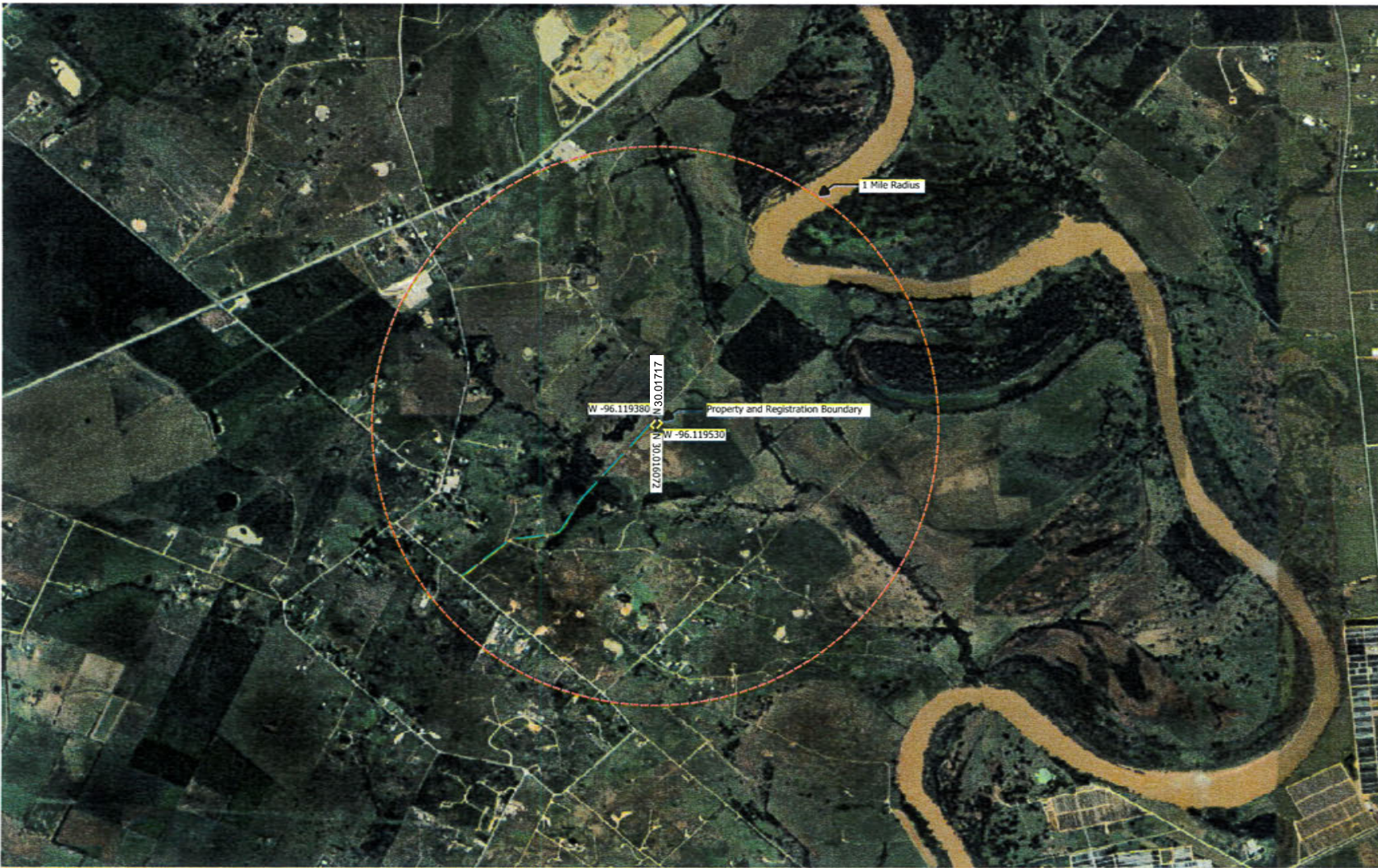
Completed by: BMG Date: 1/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:

File:  
 ACWS Liquid Processing  
 Facility- Site Location  
 Map.pdf

**Figure  
I-2**



Legend:	
	Property and Registration Boundary
	Access Road
	1 Mile Radius

Seal:

N

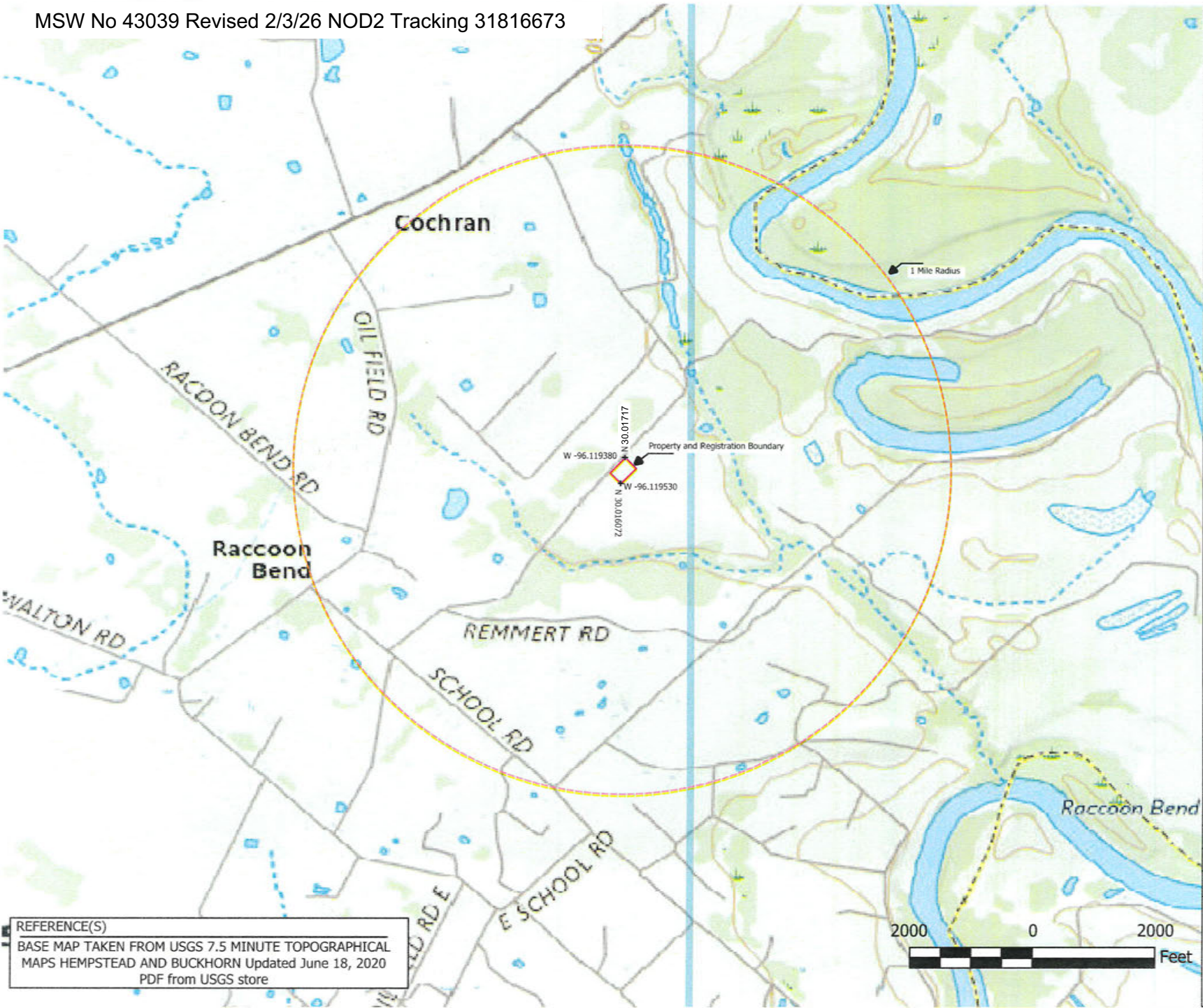
Title:  
**Aerial Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC  
 Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

Revised:	Figure:
File: ACWS Liquid Processing Facility- Aerial Map.pdf	<b>I-3</b>

REFERENCE(S)  
 BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.





**Legend:**

- Property and Registration Boundary
- 1 Mile Radius

**ESE PARTNERS**  
 STATE OF TEXAS  
 TIMOTHY AARON O'NEIL  
 83145  
 LICENSED  
 PROFESSIONAL ENGINEER  
 F-10131  
 11/19/25

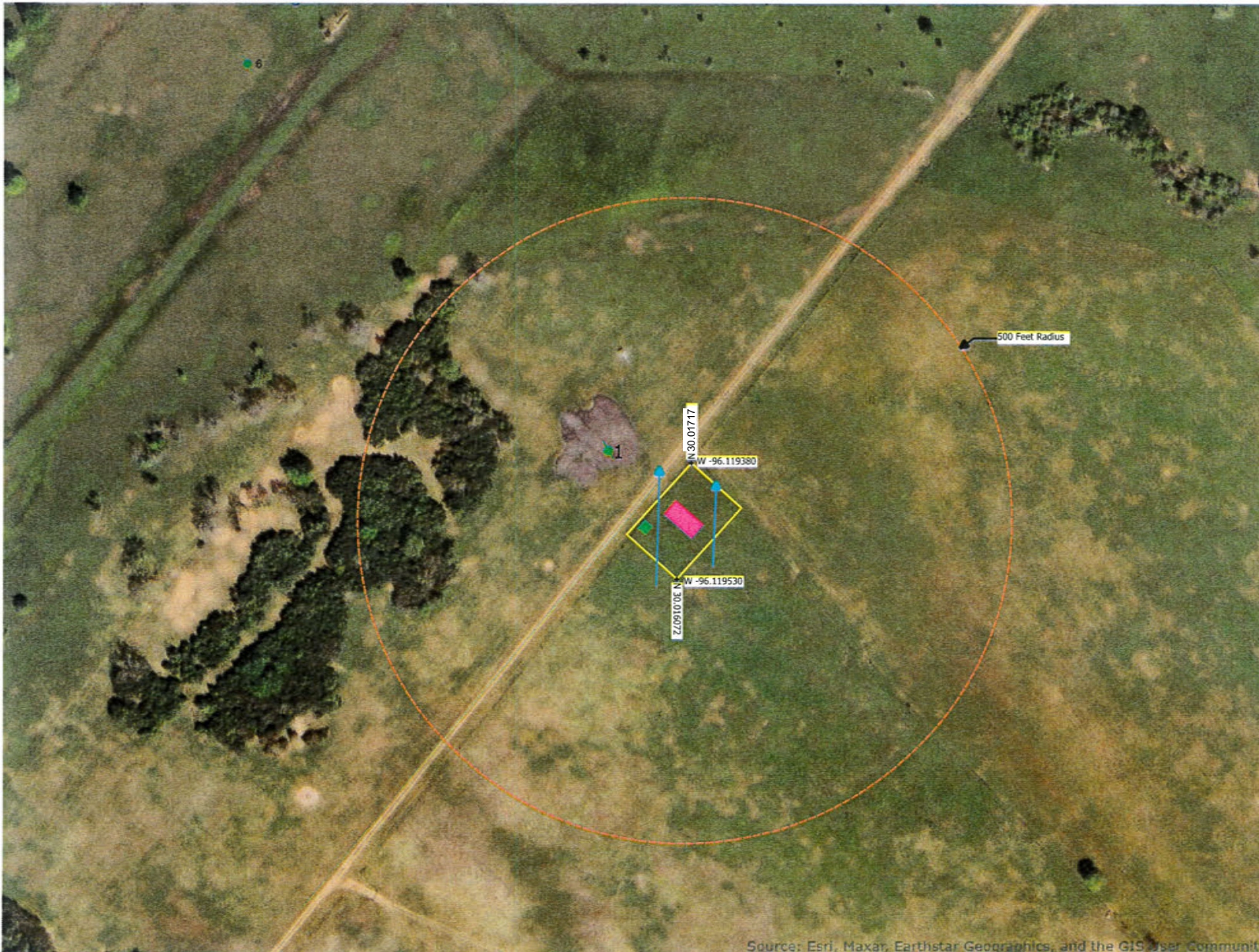
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 General Topographical Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC  
 Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

Revised:  
 File:  
 ACWS Liquid Processing Facility-  
 General Topographical Map.pdf  
 Figure:  
**I-4**

REFERENCE(S)  
 BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store





- Legend:
- Property and Registration Boundary
  - Access Road
  - 500 Feet Radius
  - Plugged Oil Well
  - Drainage/Runoff direction
  - Processing Facility Cover
  - Office
- \*No easements in facility

Seal:

F-10131  
11/18/25

Title:  
Easements & Drainage Map  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
7 R Solutions, LLC

Completed by: BMG Date: 11/16/25

Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>I-5</b>
File: ACWS Liquid Processing Facility- Drainage.pdf	

REFERENCE(S)  
BASE MAP TAKEN FROM TEXAS RAIL ROAD COMMISSION  
GISVIEWER ERSI Updated December 2024



MSW 43039  
Revised 4/4/26 NOD3  
Tracking 31816673

# TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART II REPORT

**Austin County Waste Solutions**  
**Type V Liquid Waste Processing Facility**  
**Bellville, Texas**  
**Austin County**

---

Prepared by:

**7 R Solutions, LLC**  
**3655 Woodley Ln**  
**Bellville, Texas 77418**

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*[Handwritten Signature]*  
4/7/26

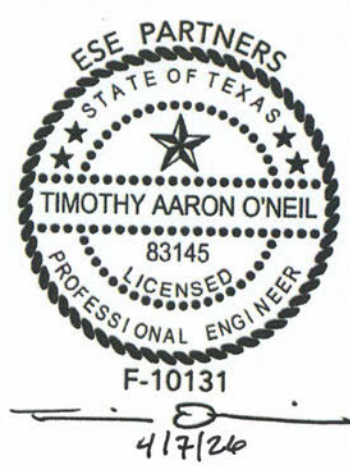
Intended for Permitting Purposes Only  
December 2024

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**Type V Liquid Waste Processing Registration Application, Part II**  
**Austin County Waste Solutions**

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*4/7/26*

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F-10131

*[Handwritten Signature]*  
4/7/26

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*[Handwritten Signature]*  
4/7/26

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-Report**

### **PART II-Report**

# 1. Waste Acceptance Plan

30 TAC 330.61(b)

The Austin County Waste Solutions liquid processing facility (“Facility” or “Site”) occupies one acre of the two-acre tract owned by Kenneth Woodley. The Facility is located off School Road. The Facility will include process frac tanks, office 1 building, and a gated entrance. The Site Layout Plan is provided as Figure II-1.

The facility can be accessed through one driveway from a public road. There is an entry point on School Road. Waste-carrying vehicles will approach from Highway 159 will turn South on School Road and follow it to the main entrance to enter the facility.

Entering the Facility, the vehicles will back up to the unloading area, unload waste through a four-inch hose into the liquid screening area. The unloaded vehicles will leave the Facility using the same road entered on.

## 1.1 Sources and Characteristics of Wastes 30 TAC §330.61(b)(1)

The acceptable waste characteristics, waste restrictions, general sources and service areas, waste rates, and storage and disposal requirements for the proposed facility are summarized in the following sections. There are no known waste constituents or characteristics in the acceptable waste stream that could be a limiting parameter that may impact or influence the design and operation of the facility.

### 1.1.1 Waste Types and Generation Areas

This Facility will be authorized to receive permitted wastes as defined below. The Facility will be open for waste acceptance Monday through Friday 8 AM - 5 PM. Hours of operation may vary slightly, within the above referenced hours, depending on incoming waste volumes. The Facility will accept waste from Austin County and the counties included in the Brazos Valley Council of Governments (BVCOG) and Houston-Galveston Area Council of Governments (HGACG).

Waste acceptance and subsequent processing for re-use is based upon the types of wastes that make up the incoming waste stream. General operations will be conducted in a manner that allows the prompt and efficient unloading of waste. The waste will be unloaded from the customers pump truck into the Facility pre-treatment tank, WRT-A or WRT -B. It is expected that all liquid waste will be processed, treated and disposed of daily.

The average length of time liquid septage waste will remain on Facility is one day. This includes the time for waste processing and disposal.

The composition of permitted waste the Facility has received for material recovery consists of the following types of materials:

- Septic tank pumping; Domestic Septage

These wastes are referred to as permitted wastes in the remainder of this RA.

The Facility will not accept the following wastes:

- Untreated Lumber – Untreated lumber includes boards, strip lumber, plywood, particleboard, and paneling;
- Untreated Sheetrock – Untreated sheetrock will be recycled, any painted or chemically treated sheetrock will not be recycled;
- Cardboard;
- Clean Wood and Clean Brush Debris – Clean wood and clean brush debris includes trees, branches, limbs, leaves, grass cuttings, brush, and other organic vegetation;
- Inert Fill Materials – Inert fill materials include bricks, stones, concrete, soil, gravel, sand, and dirt;
- Treated Lumber – Treated lumber includes boards and strip lumber that has been treated with chemical agents. Also included in this category is lumber, plywood, or other process wood materials with painted surfaces;
- Durable Plastics and Metals – Durable plastics and metals include polyvinyl chloride (PVC), high density polyethylene (HDPE), and linear low density polyethylene (LLDPE) pipe, metal pipe and frames, sheet metal, and other similar materials. This material usually comes in the form of pipes, fittings, buckets, and sheet metal;
- Source-Separated Recyclable Materials: Source-separated materials consisting of bottles, cans, containers from specific strategic located locations that are solely designated for recycle; and
- Other – Miscellaneous debris includes paper, glass, plastic sheeting, felt, shingles, paint cans, tubes, e-waste, ballast, fluorescent light fixtures, or other spent construction related products or containers.
- Household garbage;
- Putrescible wastes;
- Special wastes;
- Special waste from health-care-related facilities;
- Municipal wastewater treatment plant sludges, other types of domestic sewage treatment plant sludges, and water-supply treatment plant sludges;
- Grease and grit trap wastes;
- Wastes from commercial or industrial wastewater treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 Code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR, §261.33(e) or (f);
- Slaughterhouse wastes;

- Dead animals;
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5);
- Discarded materials containing asbestos;
- Incinerator ash;
- Soil contaminated by petroleum products, crude oils, or chemicals;
- Hazardous waste;
- PCB waste;
- Radioactive waste;
- Unknown chemical or containerized waste;
- White goods containing chlorinated fluorocarbons (CFCs);
- Used oil filters;
- Used oil;
- Class 1 non-hazardous industrial waste;
- Class 2 non-hazardous industrial waste; and
- Regulated Asbestos Containing Materials (RACM).

**1.2 Projected Waste Acceptance Rate** 30 TAC §330.61(b)(1)(A) – (B)

The Facility is planned to primarily serve Austin County, and the counties included in the Houston-Galveston Area Council of Governments(HGACG) and Brazos Valley Council of Governments (BVCOG). The projected maximum amount of waste to be received daily and annually for the next five years of the Facility operation is presented in Table II-1.

**Table II-1. Waste Acceptance Rate Projection**

<b>Year of Operation</b>	<b>Projected Maximum Daily Waste Acceptance Rate (G)</b>	<b>Projected Maximum Annual Waste Acceptance Rate (G)*</b>
1 <sup>st</sup> year	21,000	5,460,000
2 <sup>nd</sup> year	42,000	10,920,000
3 <sup>rd</sup> year	42,000	10,920,000
4 <sup>th</sup> Year	42,000	10,920,000
5 <sup>th</sup> Year	42,000	10,920,000

**Note: \* Assume 312 Days per year ( Mon- Fri), 260 Weekdays**

Based upon the generation rates discussed above, considering the average gallons of the incoming waste stream of approximately 3,500 gallons per truck and the average of 2,000 gallons of water

Domestic septage waste generated daily per household, the population equivalent served by the Facility is calculated as follows:

The facility will accept only domestic septage and is designed to recover around 90% of the incoming waste stream for beneficial land application. Based on projected volumes, approximately 350,280 lbs. of septage will be processed daily, with about 630 lbs (5.56%) consisting of non-organic solids and grease removed during screening. These residual solids will be disposed of at a TCEQ approved landfill, while the stabilized liquid fraction will be treated and applied on a TCEQ approved land application unit for beneficial reuse. All operations will comply with 30 TAC Chapter 330 and Chapter 312 requirements, and records of recovery rates, treatment conditions, and disposal will be maintained.

The facility is dependent on the approval for beneficial land use from the TCEQ Water Quality Division. If approval is not granted this application will be withdrawn.

**1.3 Registration Application Qualification 30 TAC 330.61(b)(2)**

The Austin County Waste Solutions Type V liquid processing Facility qualifies for a registration in accordance with 330.9(e) as it meets all of the following requirements:

Materials recovery at the facility will be 10% or more by weight equivalent of the total incoming waste stream for reuse or recycling.

Transfer remaining non-recyclable waste to a landfill not more than 50 miles from the facility. At the present time, the facility proposed to utilize the following permitted landfills for disposing of their non-recycled materials:

**Table II-2. TCEQ Permitted Landfill for Waste Disposal**

Landfill Name	Type	Permit Number	Distance to Landfill
Fort Bend Regional Landfill	Class 1	2270	48.6 Miles

Source: TCEQ, Feb 2022, Active Municipal Solid Waste Landfills in Texas

**2. Existing Conditions Summary 30 TAC 330.61(a)**

The Austin County Waste Solutions Facility occupies 2.0 acres. The facility is operated by 7 R Solutions, LLC which is located at 3655 Woodley Ln approximately 1500 feet southeast west of the intersection of School Rd and Oil Field Rd in Bellville, Austin County, Texas.

The facility is currently not operating. Waiting for approval for construction.

Following sections summarize existing site conditions of both the proposed facility and the surrounding area that may require special design considerations and possible mitigation of conditions identified in accordance with 330.61(h)-(o).

**2.1 Maps and Figures 30 TAC 330.61**

The following maps and figures are provided in this application. These maps and figures are provided in addition to those maps provided in part I. Collectively, these maps accurately show the

proximity of the Facility to surrounding features. Table II-3 below lists the general location maps and other specific maps required by §330.59, pertaining to contents of Part I of the application, and §330.61, pertaining to Part II of the application.

**Table II-3. List of Maps and Figures**

Figure	Title	Citation
<b>Part II Maps and Figures</b>		
<b>Facility Layout Maps 30 TAC §330.61(d)</b>		
II-1	Site Layout Plan	30 TAC §330.61(d)(1-8)
<b>General Topographic Maps 30 TAC §330.61(e)</b>		
II-2A	General Topographic Map	30 TAC §330.61(e)
<b>Aerial Photograph 30 TAC §330.61(f)</b>		
II-3	Aerial Map	30 TAC §330.61(f)
<b>General Location Maps 30 TAC §330.61(c)</b>		
II-4	Wind Rose	30 TAC §330.61(c)(1)
II-5	Water Well and Oil and Gas Well Location Map	30 TAC §330.61(c)(2)
II-6	Structures Location Map	30 TAC §330.61(c)(3)
II-6A	Detail of Processing Area Structures	30 TAC §330.63(b)(3)(D)
II-7	Land Use Map	30 TAC §330.61(c)(4), (12), §330.61(g)
II-8	Traffic Volumes Map	30 TAC §330.61(c)(5),(11)
II-9	FAA Map	30 TAC §330.61(c)(8)
II-10	Drainage, Pipeline, and Utility Easements Map	30 TAC §330.61(c)(10)
<b>Land Use Map 30 TAC §330.61(g)</b>		
II-7	Land Use Map	30 TAC §330.61(c)(4), (12), §330.61(g)
II-11	Zoning Map	30 TAC §330.61(h)(1)
<b>Other Maps and Figures 30 TAC §330.61</b>		
II-12	Soils Map	30 TAC §330.61(j)
II-13	Floodplain Map	30 TAC §330.61(m)
II-14A	Site Development Plan-Proposed Site Layout	30 TAC §330.61 (c)(11), §330.61 (d)
<b>Part I Maps and Figures</b>		
I-1	General Location Map	30 TAC §330.59(c)(2)
I-2	Site Location Map	30 TAC §330.59(c)(2)
I-3	Aerial Map	Map 30 TAC §330.59(c)(3)
Attachment 1B-1	Exhibit Plat of Registration Boundary Survey	30 TAC §330.59(d)(1)

### 2.1.1 General Location Maps 30 TAC §330.61(c)

- **Figure II-4** wind rose figure shows the prevailing wind direction – §330.61(c)(1)
- **Figure II-5** shows all known water wells within 500 feet of the registration boundary, as well as oil

## 2.1.1 General Location Maps 30 TAC §330.61(c)

- **Figure II-4** wind rose figure shows the prevailing wind direction – §330.61(c)(1)
- **Figure II-5** shows all known water wells within 500 feet of the registration boundary, as well as oil and gas wells – §330.61(c)(2)
- **Figure II-6** shows all structures and inhabitable buildings within 500 feet of the registration boundary – §330.61(c)(3)
- **Figures II-7 and II-7A**, in addition to showing general land use, identifies locations of schools, licensed day-care facilities, churches, hospitals, cemeteries, ponds, lakes, and residential, commercial, and recreational areas within one mile of the Facility – §330.61(c)(4)
- **Figure II-8**, in addition to showing traffic volumes, identifies the location and surface type of all roads within one mile of the facility that will be used to access the Facility – §330.61(c)(5)
- **Figure II-2** is the general topographic map that shows area streams – §330.61(c)(7)
- **Figure II-9** is the Federal Aviation Administration (FAA) map that shows airports within six miles of the Facility – §330.61(c)(8)
- **Figure II-10** drainage, pipeline, and utility easements within or adjacent to the Facility; §330.61(c)(10)

Multiple maps and figures provide:

- The latitudes and longitudes – §330.61(c)(6)
- The property boundary of the Facility – §330.61(c)(9)
- Facility access control features – §330.61(c)(11)
- There are no archeological sites, historical sites, or sites with exceptional aesthetic qualities adjacent to the Facility that have been identified. – §330.61(c)(12)

## 2.1.2 Facility Layout Maps 30 TAC §330.61(d)

**Figures II-9 and II-9A** present the Facility layout plans that show

- The outline of solid waste management units – §330.61(d)(1),
- The location of interior roads – §330.61(d)(2),
- There are no monitor wells within the layout area – §330.61(d)(3),
- The location of all Facility buildings – §330.61(d)(4),
- The sequence of development – §330.61(d)(5),

- The location of all Facility fencing – §330.61(d)(6),
- Screening the Facility from public view – §330.61(d)(7), and
- The location of Site entrance roads – §330.61(d)(8).

### **2.1.3 General Topographic Map** 30 TAC §330.61(e)

Provide a general topographic map: USGS 7.5 minute or equivalent one map at scale 1 in. = 2,000 ft.

**Figure II-2**, General Topographic Map depicts the registration boundary with a base map taken the United States Geological Survey (USGS) 7-1/2-minute quadrangle sheets and enhanced by Texas Natural Resource Information System (TNRIS) using content last updated by USDS in 2020 for Hempstead, TX and Buckhorn, TX, delivered in a digital raster graphic (DRG) a scale of 1-inch equals 2,000 feet.

### **2.1.4 Aerial Photograph** 30 TAC §330.61(f)

Provide Aerial Photograph(s) that are at least 9 in. by 9 in. at a scale range of one inch = 1,667-3,334 ft. that covers an area at least one mile in radius of the site. Facility boundary and fill areas (as applicable) must be shown.

**Figure II-3**, Aerial Photograph, with a 1-inch scale equals 2,000 feet, shows the registration boundary and an area of at least a 1-mile-radius of the site boundaries, with a base map taken from google earth dated May 2024. The registration boundary, waste operation areas, and offset boundary are marked on the aerial photograph.

### **2.1.5 Land Use Map** 30 TAC §330.61(g)

**Figures II-7 and II-7A**, Land Use Map, depicts the registration and property boundary, as well as the land use of surrounding areas up to 1 mile from the registration boundary.

A land use compatibility analysis was performed for the proposed facility and surrounding area. The results of the analysis are summarized in Section **2.2**.

Any drainage, pipeline, and utility easements within the Facility are shown on **Figure II-10**, Drainage, Pipeline, and Utility Easement Location Map. Access roads serving the Facility are shown on the Land Use Map and **Figure II-8**, Traffic Volumes Map.

## **2.2 Impact on Surrounding Area** 30 TAC §330.61(h)

Information provided in this section shows the likely impacts of the Facility on cities, communities, groups of property owners, or individuals by analyzing the compatibility of land use, zoning in the vicinity, community growth patterns, and other factors associated with public interests.

As documented, there are no existing site-specific conditions that may impact surrounding cities, communities, groups of property owners, or individuals; nor concern that the use of land for the Facility will adversely impact human health or the environment.

**2.2.1 Zoning 30** TAC §330.61(h)(1)

The Facility is located outside the extraterritorial jurisdiction of Bellville in an unincorporated area of Austin County, Texas. Since the property is located in an unincorporated area of Austin County, there are no zoning restrictions. The Facility has no restrictive covenants or land use restrictions in effect for the Facility location.

A published zoning Map for the Facility and a 2-mile radius is not available.

**2.2.2 Land Use Characterization** 30 TAC §330.61(h)(2),(4)

This section discusses site-specific land use characterization including surrounding land use, zoning in the vicinity, community growth patterns, and proximity to residents and other uses. As documented, the Facility is compatible with the surrounding area.

There is no map to present at this time, as there are no published maps available for reference. In accordance with 30 TAC 330.61(h)(2) and (4), maps may be provided only when published sources are available. Within a one mile radius our estimates are approximately 85 residences, 3 commercial and industrial businesses, 1 historical marker, 1 natural lake and two cemeteries. There are no hospitals, day-care facilities, or currently used religious institutions within a one-mile radius of the Facility boundary.

The majority of the surrounding area within a one-mile radius of the Facility registration boundary is pastureland. The next largest component of land use is residential. A breakdown of the land use within the one-mile radius is shown on **Table II-4**.

**Table II-4. Land Use Within a One-Mile Radius**

Land Use	Area (in acres)	Land Classification	Area (in acres)	Percentage of Total Land Use
Industrial	0		0	0%
Commercial	30.30	Business	30.30	1.53%
Residential	85	Homes	85	4.23%
Agricultural	1,892.7	Cattle/Hay	1,892.7	94.23%
Other	0	0	0	0%
Total	2,008		2,008	

**2.2.3 Growth Trends within Five Miles** 30 TAC §330.61(h)(3)

The Facility and the entire five-mile radius of the registration boundary are in Austin and Waller County, Texas. The Facility is outside the ETJ of the City of Bellville and unincorporated.

The City of Bellville has information available for the yearly populations from 2014 to present. **Table II-5** summarizes the population estimates for Bellville within the last decade.

**Table II-5. Bellville Population Estimates**

Year	Bellville	Annual Percentage Increase	Year	Bellville	Annual Percentage Increase
2014	4,165		2015	4,224	1.40%
2016	4,227	0.07%	2017	4,234	0.17%
2018	4,262	0.66%	2019	4,219	-1.00%
2020	4,206	-0.30%	2021	4,149	-1.36%
2022	4,208	1.42%	2023	4,217	0.21%

Source: Demographics – texas- demographics

The population of Bellville has been growing and declining at an average of 0.20% annually since 2014. Using an estimated annual percentage growth of 0.20%, the projected population of Bellville would be:

2024 estimated population =  $4,217 \times 0.20 = 4,225$

2025 estimated population =  $4,225 \times 0.20 = 4,233$

2026 estimated population =  $4,233 \times 0.20 = 4,241$

2027 estimated population =  $4,241 \times 0.20 = 4,249$

2028 estimated population =  $4,249 \times 0.20 = 4,257$

Population projections for Austin County have also been considered. Under the Texas Population Projections Program, the Texas Demographic Center (TDC), Office of the State Demographer has produced yearly population projections by county for the entire State of Texas. **Table II-6** summarizes the population projections for Austin County, taken from this program dated 2022.

**Table II-6. TDC Austin County Population Projections**

Year	Austin County	Annual Percentage Increase	Year	Austin County	Annual Percentage Increase
2020	30,167		2021	30,254	0.28%
2022	30,307	0.18%	2023	30,361	0.18%
2024	30,408	0.15%	2025	30,451	0.14%
2026	30,506	0.18%	2027	30,557	0.17%
2028	30,581	0.08%	2029	30,625	0.14%

## **2.2.4 Proximity to Residences and Other Uses**

30 TAC §330.61(h)(4)

In accordance with 30 TAC §330.61(h)(4), the following paragraphs describe certain specific uses of the properties within a one-mile radius of the facility. The locations of ponds, residences, churches, cemeteries, other institutional areas, historic sites, archaeologically significant sites, commercial, and industrial areas within a one-mile radius of the facility are shown on a Land Use Map (**Figure II-7**) and are discussed in further detail in the following paragraphs.

No known parks or recreational areas, hospitals, or sites with exceptional aesthetic qualities were identified within one mile of the site.

### **2.2.4.1 Ponds and Lakes**

There are numerous ponds or bodies of water located within the one-mile radius around the site.

A portion of the Brazos River is located within one mile from the registration boundary. The Brazos River runs north to south and is located North of the Facility. Figure II-2A displays a General Topographic Map showing the ponds and rivers.

### **2.2.4.2 Residential**

As of December 2024, there are approximately 85 residences within a one-mile radius of the Facility. The nearest existing residence is approximately 2,498 feet southwest of the facility and is owned by Kenneth Woodley (ACWS Owner). The residential area can be determined using 2022 Aerial Image presented on **Figure II-3** and **Figure II-7**.

The majority of the residences within one mile of the Facility are single-family.

### **2.2.4.3 Schools**

There are no schools located within one mile of the facility.

### **2.2.4.4 Churches**

Richard Grove Methodist Church is the only church located within one mile of the facility. This church is abandoned and no longer holds services. The Pleasant Grove Cemetery is right next to the church and has periodic burials.

### **2.2.4.5 Licensed Day Care Facilities**

There are no known licensed day care facilities located within a one-mile radius of the Facility.

### **2.2.4.6 Parks and Recreational Areas**

There are no known parks or recreational areas located within a one-mile radius of the Facility.

### **2.2.4.7 Cemeteries**

There are two cemeteries within the one mile radius of the facility. Richard Grove/Pleasant Grove Cemetery is located approximately 4,262 feet from the facility. Stone-Motley Cemetery is located approximately 3,831 feet from the facility.

### **2.2.4.8 Commercial and Industrial**

There are 3 businesses located within the one mile radius of the facility. Anvil Pile Driving, LLC is located almost exactly one mile from the facility. The second business is Pyrock Chemical located approximately 4,680 feet from the facility. The last business is Enhanced Energy Partners Corp located approximately 3,530 feet from the facility.

### **2.2.4.9 Historic Site and Cultural Resources**

A cultural resources background study was performed for a one mile radius around the facility and submitted to the Texas Historical Commission. According to the study's findings, there is 1 historical marker and 2 cemeteries located within one mile of the facility. No known sites or historic properties will be impacted by the project. Consequently, "no further archeological study is recommended prior to construction activities." A full cultural resources background study is provided in **Attachment IIA-2**.

### **2.2.4.10 Former Waste Disposal Units on the Facility**

There are no former waste disposal units on the Facility.

## **2.2.5 Wells Within 500 Feet** 30 TAC §330.61(h)(5)

Wells located near the Facility are discussed in this section, as well density may be considered for assessment of compatibility. Consistent with 30 TAC §330.61(h)(5), the locations of wells within, at minimum, 500 feet of the registration boundary were determined based on a well database search.

The Water Well and Oil and Gas Well Location Map, **Figure II-5**, depicts the location of wells within 500 feet of the Facility, and all wells within a one-mile radius of the proposed facility boundary. A list of the wells is also included on the figure.

### **2.2.5.1 Water Wells**

The water well locations were identified through a water well search which was performed for the area around the Facility utilizing the Texas Water Development Board (TWDB) searchable website located at the following web address:

<http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer> .

The water well search is included as **Attachment IIB**. According to the TWDB well search, there are no water wells within 500 feet of the registration boundary. If additional existing or abandoned water wells are located during the Facility development, they will be addressed as described in **Section 2.7**.

The facility will be adding a future water well approximately 160’ off of the 2 acre facility property boundary.

### 2.2.5.2 Oil & Gas Wells

An oil and gas well search of state records was conducted to identify locations of any existing or abandoned on-site crude oil or natural gas wells, or other wells associated with mineral recovery, that are under the jurisdiction of the Railroad Commission of Texas, that are within 500 feet of the registration boundary.

According to the well search, there is one plugged and abandoned oil well approximately 165 ft Northwest of the Facility boundaries **Figure II-5**. If additional existing or abandoned crude oil or natural gas wells, or other wells associated with mineral recovery, are located during the Facility development, they will be addressed as described in **Section 2.7**.

### 2.2.6 Any Other Information Requested by Executive Director (ED) 30 TAC §330.61(h)(6)

No additional information has been requested by the ED.

### 2.3 Transportation Analysis 30 TAC §330.61(i)(1)-(4)

Consistent with 30 TAC §330.61(i)(1)-(4), a transportation analysis was performed for the proposed Processing Facility. The surface types and traffic volumes on the access roads in the vicinity of the site have been analyzed for their availability and adequacy.

#### 2.3.1 Access Road Adequacy

The Facility is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be a 0.86-mile private driveway to the facility.

**Table II-7. Access Roadway Characteristics**

Roadway	Maximum Weight (pounds)	Number of Lanes <sup>1</sup>	Curb/Shoulders	Surface Type	Entity Responsible for Maintenance

<b>School Road</b>		<b>1</b>	<b>No</b>	<b>Pavement</b>	<b>Austin County</b>
<b>Oil Field Road</b>		<b>1</b>	<b>No</b>	<b>Pavement</b>	<b>Austin County</b>

1 The number of lanes is total in both direction

According to TxDOT Statewide Planning Map, accessed November 2021, there are no projects with construction to begin within 4 years or to begin in 5 to 10 years within one mile of the proposed Facility.

### 2.3.2 Access Road Traffic Volumes

**Table II-8** The daily traffic flow on school road within 1 mile west of the project is 335 vehicles. The estimated AADT is around 27% growth by 2042. This growth increase is approximately 1.2% annually. The traffic enters School Road which then turns to Oil Field Road. Oil Field Road has an average daily traffic flow of 509 vehicles. The estimated AADT is around 29% growth by 2042. This growth increase is approximately 1.3% annually. TCDS does not have any data showing for School Road in front of the project entrance, south of the facility. Nonlocal traffic does not turn off Oil Field Road and onto School Road in front of the project entrance. Based on the TXDOT Statewide Planning Map It Shows the AADT based on --2022 Traffic Volumes being 60 vehicles with the 2042 estimated AADT will still be 60 vehicles or 0% annual growth.

**Table II-8** also shows the signalized highway generalized service volume for the local roadways.

**Table II-8. Traffic Volumes**

Roadway	2022 AADT	2042 AADT	Level of Service
Oil Field Road	509	659	A: Free Flow
School Road (West)	335	425	A: Free Flow
School Road (South)	60	60	A: Free Flow

Source: TXDOT Statewide Planning Map, Traffic Count Database System (TCDS), and TxDot Rural Transportation Improvement Program 2021-2024 for the Austin County, Yoakum District

### 2.3.3 Facility Generated Traffic

The Facility is currently not in operation to receive any waste loads.

Based off our maximum gallon capacity of 42,000 gallons per day, the facility will generate a maximum average of approximately 13 pump trucks per day. Based off the data conducted the project will only add approximately 13 trucks to the current daily average to the facility. The facility will have an average of 3 employees accounting for approximately 10 trips per day. Aside from the landowner, access will only be given to TCEQ officials, employees and customers that are contracted to dispose at the facility. No access will be given to the public.

### 2.4 Notice to the Airport and FAA 30 TAC §330.545(b)

There are no Airports located within a six-mile radius of the facility.

## 2.5 Geology and Soils 30 TAC §330.61(j)

In accordance with 30 TAC §330.61(j)(1), a general discussion of the geology and soils at the process facility is included in the following sections. Regulation citations §330.61(j)(2)-(4), pertaining to fault areas, seismic impact zones, and unstable areas, are applicable for landfills, not process facilities.

### 2.5.1 Geology

The project area is in the Pleistocene-age Fluvial Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces. Depth to groundwater is greater than 150 feet.

Information about the units from the Texas Water Development Board (TWDB) are also shown in **Table II-9** below. The sections following the table discussed a generalized stratigraphic column of the area beneath the facility to a depth of approximately 2,000 feet below ground surface (BGS).

**Table II-9. Geologic Units**

Period	Age	Geologic Formation	Maximum Thickness (Feet)	Lithology	Water-Bearing Properties
Quaternary	Pleistocene	Terrace deposits	70'	Fine to coarse sand, gravel, silt, and clay	Yields small to large quantities of fresh to slightly saline water to wells for rural, domestic, and livestock use and to a few irrigation
	Holocene	Floodplain alluvium	82"	Fine to coarse sand, gravel, silt, and clay	Yield small to large quantities of fresh to slightly saline water, mostly to irrigation wells along the Brazos River
<b>Unconformity</b>					
Tertiary	Eocene	Yegua Formation	1,150'	Fine to medium sand, silt, clay, gypsum, fossilized wood, and lignite	Yields small to moderate amounts of fresh to moderately saline water to many wells for public supply, rural-domestic, livestock, and irrigation
		Cook Mountain Formation	550'	Carbonaceous clay and a small amount of sand, sandstone, limestone,	Yields small quantities of fresh to slightly saline water to wells that tap the Spiller Sand Member.

Tertiary	Eocene			glaucinite, and gypsum. The spiller Sand Member is near the middle of this formation.	
		Sparta Sand	290'	Fine to medium sand with some clay, and sandy clay	Yields small quantities of fresh to slightly saline water to wells in a downdip from the outcrop.
		Weches Formation	130'	Iron-bearing glauconite clay and sand	Yields small quantities of fresh to slightly saline water to a few wells in or near the outcrop.
		Queen City Sand	540'	Massive to thin-bedded, fine to medium sand, clay and some lenses of conglomerate containing iron	Yields small to large quantities of fresh to slightly saline water to wells in and several miles downdip from the outcrop.
		Reklaw Formation	430"	Glaucinite sand and silt in the lower part of the formation; clay and thin beds of sandstone in the upper part.	Capable of yielding small quantities of fresh to slightly saline water to wells in some places. Not known to yield water to wells in the registration area.
		Carrizo Sand	250'	Fine to coarse crossbedded sand and some thin beds of sandstone and clay	Yields small to large quantities of fresh to slightly saline water, mostly to public-supply wells.
		Wilcox Group	3,900'	Fine to coarse sand and sandstone, sandy clay, clay, and	Yields small to large quantities of fresh to moderately saline water to public-supply, irrigation, rural-domestic, and

				shale, with some lenses of limestone and lignite. Simsboro Sand Member is in the middle part of this group	livestock wells. Most water produced from the Simsboro Sand Member.
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### 2.5.1.1 Fluvial Terrace Deposits

Quaternary age Fluvial Terrace Deposits underlie the registration boundary. Deposits include gravel, sand, silt, and clay. An upper silty clay unit is good for crop production and a lower coarse unit yields some water. High gravel content deposits are commonly exposed to the surface.

### 2.5.1.2 Yegua Formation

Unconformably underlying the Fluvial Terrace Deposits is the Tertiary age Yegua Formation. The unit is sandstone, clay, and lignite, and the sandstone is mostly quartz. The formation dips into the southeast into the East Texas Basin and has an approximate thickness of 850 feet at the site.

### 2.5.1.3 Cook Mountain Formation

Underlying the Yegua Formation is the Tertiary age Cook Mountain Formation. The Cook Mountain Formation consists of mostly clay but is sandy in some parts. This formation dips to the southeast and has an approximate thickness of 415 feet at the site.

### 2.5.1.4 Sparta Sand

Underlying the Cook Mountain Formation is the Tertiary age Sparta Sand. The Sparta Sand Formation contains quartz sand, which is very fine to fine grained, well sorted, and micaceous, with silty clay partings. This formation dips to the southeast and has an approximate thickness of 230 feet at the site.

### 2.5.1.5 Weches Formation

Underlying the Sparta Sand Formation is the Tertiary age Weches Formation. The Weches Formation contains greensand, sand, and clay. This formation has an approximate thickness of 80 feet at the site.

### 2.5.1.6 Queen City Sand

Underlying the Weches Formation is the Tertiary age Queen City Sand. The Queen City Sand contains fine-grained quartz, which is locally carbonaceous, with thin interbeds of clay, sands, and silts. This formation dips to the southeast and has an approximate thickness of 430 feet at the site.

### 2.5.1.7 Reklaw Formation

Underlying the Queen City Sand is the Tertiary age Reklaw Formation. The Reklaw Formation contains two parts. The upper part of the Reklaw Formation contains clay which is silty and carbonaceous. The lower part of the Reklaw Formation contains glauconitic, fine to medium grained quartz sand and clay. This formation dips to the southeast and has an approximate thickness of 330 feet at the site.

### 2.5.1.8 Carrizo Sand

Underlying the Reklaw Formation is the Tertiary age Carrizo Sand. The Carrizo Sand contains fine to coarse grained, poorly sorted, friable, non-calcareous, thickly bedded sandstone. This formation dips to the southeast and has an approximate thickness of 90 feet at the site.

### 2.5.1.9 Wilcox Group

Underlying the Carrizo Sand is the Tertiary age Wilcox Group. It has an approximate thickness of 1450 feet at the site.

## 2.5.2 Soils

The site is located in Austin County, Texas. The topography of Austin County is defined by rolling hills in the northern, western and central sections to a nearly level coastal prairie in the south. Elevations range from 460 to 120 feet above sea level. The site is located on the northeast edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and has mostly forest or savanna type vegetation potentials. Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas. **Figure II-2** shows the general site topography based on United States Geological Survey (USGS) quadrangle sheets for Hempstead, TX.

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) operates an online Web Soil Survey (WSS) which provides soil data and information produced by the National Cooperative Soil Survey. The soil information and mapping from the WSS shows that the registration boundary encompasses one (1) soil type as shown in **Table II-10**.

**Table II-10. Site Soils**

Soil Symbol	Soil Name	Percentage of Site
KeD	Kenney loamy fine sand	100%

## 2.6 Groundwater and Surface Water 30 TAC §330.61(k)

### 2.6.1 Groundwater Conditions 30 TAC §330.61(k)(1)

The Gulf Coast Aquifer is the major hydrologic unit utilized for groundwater supplies in Austin County. The Gulf Coast Aquifer consists of complex interbedded clays, silts, sands and gravels of Cenozoic age. These are hydrologically connected to form a large, leaky artesian aquifer system. The system comprises four major components consisting of the following water-producing formations - Catahoula, Jasper, Chicot, and Evangeline aquifers

The Brazos River Alluvium Aquifer is a minor aquifer found along the Brazos River. The Alluvium Aquifer consists of clay, silt, sand and gravel.

No data is available on site-specific groundwater conditions. The only data available concerning near Facility groundwater conditions are through the driller reports available through the Texas Water Development Board for water production well installations. These reports state static water levels were found to be at a depth range between 35-70 feet below the ground surface (see **Appendix IIB-2**).

### 2.6.2 Surface Water Conditions 30 TAC §330.61(k)(2)

According to the Texas Water Development Board published maps entitled “Major River Basins of Texas over DEM” and “Texas Major River Basins and Sub-Basins over DEM”, the site is located in the Middle and Lower Brazos-Little Brazos sub-basin of the Brazos River basin. According to maps provided on the Brazos River Authority website, the site is located in the Central watershed.

Surface water features are displayed on **Figure II-2** which displays the Facility location plotted on the U.S.G.S. Burleigh Quadrangle. The closest surface water features to the Facility is a natural pond, which is located approximately 1,295 feet north of the Facility boundary.

### 2.6.3 Texas Pollutant Discharge Elimination System

#### **Compliance** 30 TAC §330.61(k)(3)

The facility has applied for a no exposure (TPDES) Stormwater General Permit no. TXRNECL44. Since the proposed process facility will not perform vehicle or equipment maintenance activities, vehicle or equipment rehabilitation, mechanical repairs, painting, fueling, lubrication, or cleaning within the registration boundary of the Facility, the site is not subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit, as required by §402 of the federal Clean Water Act. TXRNECL44 is included in **Attachment IIG**.

## **2.6.4 Information on How Facility Will Comply With Texas Pollution Discharge Elimination System** 30 TAC §330.61(k)(3)(A)

The Facility has obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. Wastewater discharged from the site to a treatment Facility permitted under the Texas Water Code, Chapter 26 must comply with the requirements of 330.207(f). A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part II, Attachment II G**.

## **2.6.5 Copy of Permit No. Under Individual Wastewater Permit** 30 TAC §330.61(k)(3)(B)

No individual TPDES wastewater permit will be sought by the Facility. All materials processing will occur in the process area, which will not accumulate stormwater. No waste will be stored outside of the covered structure.

## **2.7 Abandoned Oil and Water Wells** 30 TAC §330.61(l)

Consistent with 30 TAC §330.61(l), a summary of abandoned oil and water wells within the facility has been developed. As described in **Section 2.2.5** of this report, and as shown on **Figure II-5**, no water or oil & gas wells were identified within the site boundary, and one (1) plugged oil well was identified within 160 ft northwest of the registration boundary. No water wells were identified within 500 feet of the registration boundary.

Should any additional existing or abandoned on-site water wells or oil & gas wells be discovered during Facility development, the facility will provide written notification to TCEQ of their location.

Any wells discovered during Facility development will be capped, plugged, and closed in accordance with the applicable rules and regulations of TCEQ or other state agency, and a copy of the well plugging report for any found well will be submitted to TCEQ and the appropriate state agency within 30 days prior to construction.

## **2.8 Floodplains and Wetlands** 30 TAC §330.61(m)

Consistent with 30 TAC §330.61(m), data has been provided on floodplains and wetlands.

Provide Statement to Whether Facility Is Within 100 Year Floodplain 30 TAC §330.61(m)(1)

The Facility is not located within the Federal Emergency Management Agency (FEMA) 100-year floodplain. **Figures II-13** displays the FEMA Flood Insurance Rate Map.

## **2.8.1 Facility Shall Not Restrict the Flow, Reduce Storage Capacity, or Result in Washout** 30 TAC §330.547(b)

The disposal of solid wastes will not occur at the Facility. The processing of solid waste or storage will not occur in the 100-year floodplain. All process facility waste is confined to the covered process area.

The process facility is not located in the flow pattern of the 100-year floodplain as such the construction of the Facility will not restrict the flow of floodwaters.

## **2.8.2 Storage and Processing Facilities are Located Outside of 100 Year Floodplain**

30 TAC §330.547(c)

The Facility is not located within the Special Flood Hazard Boundary according to FEMA (Federal Emergency Management Agency) flood map for Austin County, Texas. The 100-year floodplain (special flood hazard) boundary is shown on **Figure II-13** FEMA Flood Insurance Rate Map.

## **2.8.3 Wetlands** 30 TAC §330.61(m)(2)

Per §330.553, municipal solid waste storage or processing facilities shall not be located in wetlands unless a demonstration can be made providing evidence that the facility has a Corps of Engineers (USACE) permit for use of any wetlands area. Wildlife Biologist Faith Chase created a Wetland and Waterbody Delineation report, dated March 2025. The conclusion of the environmental resource analysis determined no wetlands or waterbodies within the Facility area. A copy of the report is provided in **Attachment IID-1**.

## **2.9 Endangered or Threatened Species** 30 TAC §330.61(n)

Construction and operation of the Facility shall not result in the destruction or adverse modification of the critical habitat or cause or contribute to the taking of endangered or threatened species.

### **2.9.1 Endangered or Threatened Species Assessment**

Threatened and endangered species assessments were conducted by Wildlife Biologist Faith Chase at the facility. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973. Based on a field survey and available records, it was concluded that the Facility and the operation of the facility is not expected to result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species. Copies of the assessment are included in **Attachments IIE-1 and IIE-2**.

**Attachment IIE-3** includes coordination with the Texas Department of Parks and Wildlife (TDPW) concerning endangered or threatened species or their habitats.

## **2.10 Texas Historical Commission** 30 TAC §330.61(o)

In accordance with 30 TAC §330.61(o), a review for request letter was sent to the Texas Historical Commission (THC) for concurrence that there are no historical, archeological, or sites with exceptional aesthetic quality on the Facility property or in the surrounding area that would be affected by the proposed Transfer Station.

The submission was through the electronic THC review and compliance system, or eTrac system. The related correspondence and proof of submittal is included in **Attachment IIA-1**. The THC responded via email. The Archeology comments are below:

### **Archeology Comments**

- This agency reviews projects that fall under the purview of Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas. As submitted, it appears there is no federal nexus for this project and it will be limited to private property, so the state and federal statutes mentioned above do not apply. We require notification of potential impacts to cemeteries, including individual burials, under the Texas Health & Safety Code, Chapter 711. If at any point this project should become subject to federal involvement (including federal funding or permitting); ownership or control by a political subdivision of the State of Texas (such as a public utility or local government); or if state agencies such as the Public Utilities Commission or Texas Commission on Environmental Quality direct you to consult with this agency, additional consultation with the State Historic Preservation Office will be required. This project will need to be resubmitted for review with additional information on the regulatory framework and proposed impacts. Further, if the project ultimately includes federal involvement, potential direct and indirect effects to aboveground historic resources must also be considered, which may additionally require a historic resources survey for the project's Area of Potential Effect.

## **2.11 Council of Governments** 30 TAC §330.61(p)

A request for review letter and Parts I and II of this Registration Application has been submitted to the Houston-Galveston Area Council (HGAC) to operate a Type V Process Facility in accordance with §330.61(p).

Documentation of correspondence with HGAC is included in Attachment IIF.

## **2.12 Easement and Buffer Zones** 30 TAC §330.543(a)

No solid waste unloading, storage or processing operations will occur within any easement, buffer zone, or right of way that crosses the Facility within 25 feet of the centerline of any utility line, or pipeline easements. There are no pipelines for utility easements that cross the 2-acre registration boundary. If there were, all utility and pipeline easements would be marked with posts that extend at least six feet above the ground level, spaced at a distance of no greater than 300 feet.

No solid waste storage or processing will occur within the 50 foot buffer zone that has been established for the Facility as per 330.543(b).

## **SUPPLEMENTARY TECHNICAL REPORT**

**General Description:** The facility will be on 2 acres. All capacity calculations are based on a 8 am to 5 pm Monday through Friday standard schedule without emergency calls. To ensure no overload and overflow, an employee will be onsite at the processing facility during operating hours to visually monitor levels in receiving tanks and process tanks. We will be alternating between two frac tanks (process tanks; 21,000 gallons each) 42,000 Gallons total staging capacity. Thus, dual staging system is to ensure that we can stage for under 7 days per 30 TAC 312.50(c). The startup anticipated average treatment rate is 21,000 gallons per week. This will be split into two batches to eliminate vector and pathogen build up. The disposal fields (78 Acres) will be divided into 3 fields. Treated septage will be rotated between fields per judgment of weather, ponding, and predictive hay production. There are 3 fields to ensure one active, one standby, and one resting 30 days (per 30 TAC 312.82 (3)(E) although no livestock will be onsite, we are going to wait 30 days after the last application to harvest.) As we grow with business, we anticipate an average treatment rate of approximately 63,000 gallons per week. The facility's max processing capacity is 210,000 gallons per week. This is an annual total of 10.9 million gallons per year. We got a ballpark number from the Biosolids team of 11.7 million gallons per year max field capacity (150,000 gallons per acre per year on a 78 acres land application). Our growth indicator for a major amendment and facility upgrade is after 5 years or when we operate at a 35-40% capacity to consider for construction/permit processing time and environmental concerns. Even factoring in a 10% variance (100,000 gallons) variance, we will be operating at a 93% capacity.

We will be utilizing bar screens for trash collection. The trash will be put into a dumpster to go to a TCEQ authorized landfill. We will have a Lime tank to hold "slurry" hydrated lime. We will have a pump to transfer the lime to the frac tank to raise the pH to 12 or more for 30 minutes to treat domestic septage. The process can hold up to 21,000 gallons per batch, however in consideration of pathogen and vector compliance we will be treating smaller batches on a scheduled basis as needed. To treat 21,000 gallons of domestic septage we will use approximately 360-440 gallons of lime (A Guide to the Federal EPA Rule for Land Application of Domestic Septage to Non-Public Contact Sites EPA/832-B-92-005). After pH meets 30 TAC 312.82 (C) and checked again the sludge will be pumped out through an irrigation traveler (rain gun) for beneficial land application (separate TCEQ BFU site registration). There will be a berm around the frac tanks to contain any spills. Septic trucks will back up to one of our 4 hoses to offload.

### **II)The physical characteristics of sewage are:**

#### **(i) Specific Gravity:**

Specific gravity of sewage is very nearly equal to that of water and, therefore, no modification of hydraulic formula is necessary.

#### **(ii) Color:**

Fresh domestic sewage has an earthy or light brown color. However, with the passage of time sewage undergoes decomposition due to which its color changes. In about 6

hours, with all the dissolved free oxygen present in the sewage being practically exhausted due to aerobic decomposition, the sewage becomes stale, and its color becomes light-to-medium grey. As more time passes the sewage undergoes anaerobic decomposition due to which it becomes septic, and its color becomes dark grey or black. The blackening of sewage is often due to the formation of various sulfides, particularly ferrous sulfide. This results when hydrogen sulfide ( $H_2S$ ) produced during anaerobic decomposition combines with a divalent metal, such as iron, which may be present. Thus, the color or appearance of domestic sewage may be used to assess its general condition or age.

**(iii) Odor:**

Fresh domestic sewage is either odorless or it has a musty odor which is usually not offensive, but when organic matter present in sewage undergoes anaerobic decomposition a variety of compounds are formed which emit offensive odor. The main compound formed under anaerobic conditions is hydrogen sulfide ( $H_2S$ ) which has a smell of rotten eggs that is highly offensive.

The other compounds, such as indol, skatol, cadaverin and mercaptan, formed under anaerobic conditions may cause odors that are more offensive than that of hydrogen sulfide. This will be mediated by frequent and scheduled smaller batches as needed.

**(iv) Temperature:**

**The temperature affects sewage in the following ways:**

- (a) Temperature affects the biological activity of bacteria present in sewage, which increases with increase in temperature up to about  $60^{\circ}C$  and then it decreases.
- (b) It affects the solubility of oxygen and other gases in sewage. When the temperature of sewage is more the content of dissolved oxygen and other gases becomes less.
- (c) Temperature affects viscosity of sewage which decreases with increase in temperature.
- (d) Extremely low temperature affects adversely the efficiency of sedimentation.

The average temperature of sewage in our country is  $20^{\circ}C$  which is quite close to the ideal temperature for the biological activities.

**(v) Total Solids Content - Turbidity:**

**Total solids present in sewage may be in three different forms:**

- (A) Suspended solids, (B) Colloidal solids and (C) Dissolved solids.

**Suspended solids are those which are held in suspension in liquid, and these may be further subdivided as:**

- (a) Settleable solids and

(b) Non-settleable solids.

Settleable solids are those which settle out if sewage is allowed to remain undisturbed for a period of about 2 hours. Non-settleable solids are those which do not settle down by mere detention but may be arrested by special laboratory filters.

Colloidal solids are finely divided solids held in suspension, which cannot be removed by settling or filtering, but they are generally removed by biological oxidation or coagulation, followed by sedimentation. Dissolved solids are those which remain dissolved in sewage just as salt in water.

When sewage is passed through laboratory filter the suspended solids will be filtered out i.e., they will be retained on the filter, while colloidal and dissolved solids will pass through the filter in the filtrate. Thus, suspended solids are non-filtrable-solids while colloidal and dissolved solids are the filtrable-solids. The colloidal solids consist of particles with an approximate diameter range of from 1 millimicron ( $m\mu$ ) to 1 micron ( $\mu$ ).

Each of the categories of solids present in sewage may be further classified as-  
(a) Organic or volatile solids, and (b) Inorganic or non-volatile or fixed solids.

**The organic solids account for about 45% of the total solids and these can be grouped in the following three categories:**

1. Carbohydrates such as cellulose, cotton and wool fiber, starch, sugar, etc.
2. Fats, oils and grease received from kitchens, laundries, garages, shops, filling stations, etc.
3. Nitrogenous compounds proteins and their decomposed products, animal and vegetable wastes, urea, amines, amino acids, fatty acids, hydrocarbons, alcohol, etc.

The inorganic solids account for the other 55% of the total solids and these consist of minerals and salts such as sand, gravel, grit, clay and other debris, dissolved salts, chlorides, sulphates, etc.

The presence of suspended matter in sewage makes it turbid. Turbidity, a measure of the light-transmitting properties of water, is used to indicate the quality of sewage with respect to colloidal matter. Colloidal matter will scatter or absorb light and thus prevent its transmission. The turbidity depends on the strength of sewage, and it increases as sewage becomes stronger.

**2. Chemical Characteristics of Sewage:**

The chemical characteristics indicate the state of sewage decomposition, its strength and type of treatment required. The chemical characteristics are dependent on the substances contained in sewage.

**The significant chemical characteristics of sewage are:**

(i) pH value (or Hydrogen ion concentration), (ii) Chloride content, (iii) Nitrogen content, (iv) Phosphorus content, (v) Fats, oils and grease content, (vi) Sulphates, sulfides and H<sub>2</sub>S gas, (vii) Surfactants, (viii) Phenols, (ix) Pesticides and agricultural chemicals, (x) Toxic compounds, (xi) Gases—Dissolved oxygen, Hydrogen sulfide, and Methane.

**(i) pH Values:**

The pH value of sewage indicates whether it is acidic or alkaline in nature. The pH value of fresh domestic sewage is slightly more than that of the water supply to the community. Thus, fresh domestic sewage is alkaline in nature having pH value between 7.3 and 7.5, which is good for bacterial action.

However, as time passes the pH value of sewage tends to fall due to production of acids by bacterial action and the sewage tends to become acidic. Thus, septic sewage is acidic in nature which is difficult to be treated efficiently. A high concentration of either an acid (pH << 7) or an alkali (pH >> 7) in sewage is indicative of industrial sewage being mixed with domestic sewage. The determination of pH value of sewage is necessary because certain methods of sewage treatment for their efficient working require sewage of pH value in a particular range. Sometimes lime is added for creating alkaline condition.

**(ii) Chloride Content:**

Chlorides found in domestic sewage are derived from kitchen wastes, human feces, urinary discharges, etc. For example, human excreta contributes about 6 to 8 gm of chlorides per person per day. Thus, based on an average sewage flow of 150 lpcd this would result in the chloride content of 40 to 50 mg/l being added to sewage by human excreta.

Water softeners also add large quantities of chlorides to sewage. Large amounts of chlorides may also be contributed from industrial sewage. Infiltration of saline groundwater is also a potential source of chlorides in sewage. Chlorides are mineral salts and, therefore, these are not affected by the biological action of sewage.

**(iii) Nitrogen Contents:**

The nitrogen content of sewage is in the form of nitrogenous compounds present in it. The principal nitrogenous compounds present in domestic sewage are proteins, amines, amino-acids and urea which are organic compounds, and ammonium salts which are inorganic compounds. The nitrogenous organic compounds (or nitrogenous organic matter) present in sewage undergo decomposition or oxidation.

**Depending on the state of decomposition or oxidation of nitrogenous organic matter nitrogen appears in sewage in the following forms:**

(a) Albuminoid nitrogen or albuminoid ammonia;

(b) Ammonia nitrogen or free nitrogen;

(c) Nitrites or Nitrite nitrogen; and

(d) Nitrates or Nitrate nitrogen.

**(a) Albuminoid Nitrogen or Albuminoid Ammonia:**

Albuminoid nitrogen or albuminoid ammonia indicates the quantity of nitrogen present in sewage before the decomposition of nitrogenous organic matter is started. In other words albuminoid nitrogen or albuminoid ammonia indicates the amount of undecomposed nitrogenous organic matter present in sewage.

**(b) Ammonia Nitrogen or Free Ammonia:**

In sewage ammonia nitrogen or free ammonia results from the bacterial decomposition of the nitrogenous organic matter.

**It exists in sewage as either ammonium ion ( $\text{NH}_4^+$ ) or ammonia ( $\text{NH}_3$ ) depending on the pH value of the sewage, in accordance with the following equilibrium reaction:**

When  $\text{pH} > 7$ , the equilibrium is displaced to the left, thus it exists as ammonia, while for  $\text{pH} < 7$ , it exists as ammonium ion. The age of sewage is indicated by the relative amount of ammonia that is present. The presence of considerable amount of ammonia nitrogen or free ammonia indicates stale or old sewage. In an aerobic environment bacteria can oxidize the ammonia nitrogen to nitrites and nitrates.

**(c) Nitrites:**

Nitrites indicate the presence of partly decomposed (or partly oxidized) nitrogenous organic matter in sewage. The presence of nitrites in sewage indicates that decomposition or oxidation of nitrogenous organic matter is in progress. Hence nitrites indicate the intermediate stage of conversion of nitrogenous organic matter of sewage into stable form.

When sewage is undergoing treatment the presence of nitrites shows that the treatment is still incomplete, and the sewage is still stale. In other words, nitrites will predominate in stale sewage. Thus, the presence of nitrites is an indicator of past pollution in the process of stabilization. In sewage the amount of nitrites seldom exceeds 1 mg/l. Nitrites are, however, unstable and are easily oxidized to nitrate form, and hence they are relatively unimportant in sewage or water-pollution studies.

**(d) Nitrates:**

Nitrates are the final products of decomposition (or oxidation) or nitrogenous organic matter present in sewage. As such the presence of nitrates indicates fully oxidized and the most stable form of nitrogenous organic matter contained in sewage thereby indicating the well oxidized and treated sewage.

Increase in proportion of nitrates during the process of sewage treatment serves as a guide for measuring the progress achieved in the sewage treatment. Nitrates may vary in concentration from 0 to 20 mg/l as nitrogen in sewage.

In fresh sewage nitrites and nitrates are usually not present or they may be present in very small amount.

Nitrogen being an essential component of biological protoplasm, its determination in sewage is necessary for proper biological treatment or its use for land irrigation. Where nitrogen content in sewage is inadequate, it becomes necessary to supplement with addition of salts containing nitrogen. Generally domestic sewage contains sufficient nitrogen to take care of the needs of the biological treatment.

**(iv) Phosphorus Content:**

Phosphorus is contributed to domestic sewage from food residues containing phosphorus and their breakdown products. The use of increased quantities of synthetic detergents add substantially to the phosphorus content of sewage. Phosphorus just as nitrogen, is an essential nutrient for biological processes. Generally domestic sewage contains adequate quantities of phosphorus.

**(v) Fats, Oils and Grease Content:**

Fats and oils are the major components of food stuffs such as butter, lard, margarine and vegetable fats and oils. Fats are also commonly found in meats, seeds, nuts and some fruits. Thus fats and oils are contributed to domestic sewage from kitchen wastes which contain these food stuffs. Fats and oils are compounds (esters) of alcohol or glycerol (glycerine) with fatty acids. Fats are among the more stable of organic compounds and are not easily decomposed by bacteria. The term 'grease' as commonly used, includes the fats, oils, waxes and other related constituents found in sewage.

**(vi) Sulfates, Sulfides and H<sub>2</sub>S Gas:**

Sulfates and sulfides are formed due to decomposition of various Sulfur containing substances present in sewage. Further sulfate ions (SO<sub>4</sub>) occurs naturally in most water supplies and hence these are also present in sewage. Sulfur is required in the synthesis of proteins and is released in their degradation.

**Anaerobic bacteria chemically reduce sulfates to sulfides and to hydrogen sulfide (H<sub>2</sub>S) as indicated by the following equations:**

The hydrogen sulfide gas so produced cause bad smells or odors. Besides this, H<sub>2</sub>S gas gets oxidized biologically to sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) which is corrosive to sewer pipes. Sulphates are reduced to sulfides in sludge digesters and may upset the biological process if the sulfide concentration exceeds 200 mg/l. However, such concentrations of sulfides are rare. Further H<sub>2</sub>S gas which is evolved and mixed with the sewage or wastewater gas (CH<sub>4</sub> + CO<sub>2</sub>) is corrosive to the gas piping.

**(vii) Surfactants:**

Surfactants (or surface active agents) come primarily from synthetic detergents. Thus, surfactants are contributed to domestic sewage from bathroom wastes, kitchen wastes, wastes from washing machines, etc. Surfactants are large organic molecules that are slightly soluble in water and cause foaming in sewage treatment plants and in water bodies into which the sewage is discharged. Surfactants tend to collect at the air-water interface.

During aeration of sewage, these compounds collect on the surface of the air bubbles and thus create a very stable foam due to which aeration of sewage is hindered. Alkyl-benzene- sulfonate (ABS) is a type of surfactant commonly used in synthetic detergents, but it is more troublesome because it is not biodegradable (i.e., it resists break down by biological means). As such some countries have banned the use of ABS in detergents, and ABS has been replaced in detergents by linear-alkyl- sulfonate (LAS) which is biodegradable.

**(viii) Phenols:**

Phenols are mostly found in industrial sewage. If such a sewage is directly discharged into a surface source of water supply then drinking water may also contain phenols. However, the presence of phenols in drinking water is not desirable because phenols cause taste problems in drinking water, particularly when the water is chlorinated. Phenols present in sewage can be biologically oxidized if their concentrations are up to 500 mg/l.

**(ix) Pesticides and Agricultural Chemicals:**

Sewage may contain pesticides, herbicides and other agricultural chemicals which result primarily from surface runoff from agricultural, vacant and park lands. If

sewage containing these chemicals is discharged in a water body it can result in fish kills, in contamination of the flesh of fish that decreases their value as a source of food, and in impairment of water supplies.

**(x) Toxic Compounds:**

Sewage may contain certain compounds which are toxic to micro-organisms. Such compounds may be contributed by industrial sewage. The industrial sewage may contain certain cations and anions which are toxic to micro-organisms. Copper, lead, silver, chromium, arsenic and boron are some of the cations which are toxic in varying degrees to micro-organisms.

For instance, in sludge digesters, copper is toxic at a concentration of 100 mg/L, chromium and nickel are toxic at concentrations of 500 mg/l, and sodium is also toxic at high concentrations. Other toxic cations include potassium and ammonium at concentrations of 4000 mg/l.

The toxic anions include cyanides and chromates which are found particularly in metal-plating wastes. It has been found that due to the presence of toxic ions the micro-organisms are killed and the treatment ceases. As such the presence of toxic ions should be taken into consideration in the design of biological treatment plants.

**(xi) Gases:**

Besides solids, sewage also contains gases.

**The gases that are commonly found in untreated sewage include:**

- (i) Nitrogen (N<sub>2</sub>),
- (ii) Oxygen (O<sub>2</sub>),
- (iii) Carbon dioxide (CO<sub>2</sub>),
- (iv) Hydrogen sulfide (H<sub>2</sub>S),
- (v) Ammonia (NH<sub>3</sub>), and

(vi) methane (CH<sub>4</sub>).

The first three are common gases of the atmosphere and are found in all waters (including sewage) exposed to air. The later three are derived from the decomposition of the organic matter present in sewage. The presence of nitrogen and ammonia in untreated sewage is discussed earlier.

**The other gases of interest in untreated sewage are oxygen, hydrogen sulfide and methane and the same are discussed below:**

**i. Dissolved Oxygen:**

Dissolved oxygen (DO) is the amount of oxygen present in sewage in dissolved state. The presence of dissolved oxygen in untreated sewage indicates that the sewage is fresh. However, oxygen is only slightly soluble in water.

**The actual quantity of dissolved oxygen that can be present in water is governed by:**

- (i) Solubility of oxygen,
- (ii) Partial pressure of oxygen in atmosphere,
- (iii) Temperature, and
- (iv) Purity (salinity, suspended solids, etc.) of water.

The solubility of oxygen in sewage is only about 95% of that in distilled water. Further as indicated earlier the quantity of dissolved oxygen in sewage decreases as the temperature increases.

Dissolved oxygen is required for the respiration of aerobic micro-organisms as well as all other aerobic life forms present in sewage. Thus, the presence of dissolved oxygen in sewage is desirable. The dissolved oxygen content of fresh sewage is soon depleted due to aerobic decomposition.

When the entire quantity of dissolved oxygen is exhausted, the aerobic decomposition ceases and anaerobic decomposition commences which results in the development of noxious odors. As such the presence of dissolved oxygen in sewage is also desirable because it prevents the development of noxious odors.

It is necessary to determine the dissolved oxygen content of sewage before it is subjected to treatment, so as to select the proper method of treatment.

#### **ii. Hydrogen Sulfide:**

As indicated earlier hydrogen sulfide is formed from the decomposition of organic matter containing sulfur or from the reduction of mineral sulfites and sulphates. It is not formed in the presence of an abundant supply of oxygen. Hydrogen sulfide gas is a colorless, inflammable compound having the characteristic odor of rotten eggs.

The blackening of sewage and sludge usually results from the formation of hydrogen sulfide that has combined with the iron present to form ferrous sulfide (FeS). Although hydrogen sulfide is the most important gas formed from the standpoint of odors, other volatile compounds such as indol, skatol and mercaptans, which may also be formed during anaerobic decomposition, may cause odors far more offensive than that of hydrogen sulfide.

#### **iii. Methane:**

Methane gas is the principal by-product of the anaerobic decomposition of the organic matter in sewage. Methane gas is a colorless, odorless, combustible hydrocarbon of high fuel value. Normally large quantities of methane are not encountered in sewage because even small amounts of oxygen tend to be toxic to the organisms responsible for the production of methane.

Since methane is highly combustible and the explosion hazard is high, manholes and sewer junctions or junction chambers where there is an opportunity for the gas to collect should be ventilated with a portable blower during and before the time required for men to work in them for inspection, repairs or renewals.

In treatment plants, notices should be posted about the plant warning of explosion hazards, and plant employees should be instructed in safety measures to be maintained while working in and about the structures where the gas may be present.

### **3. Biological Characteristics:**

The biological characteristics depend on the groups of organisms found in sewage. The principal groups of organisms found in sewage are classified as protista, viruses, plants and animals.

#### **i. Protista:**

Protista includes bacteria, fungi, protozoa and algae. These are the most important group of organisms with which the sanitary engineer must be familiar, especially the bacteria, algae and protozoa.

#### **ii. Bacteria:**

These are single cell micro-organisms which play an extensive and fundamental role of decomposition and stabilization of organic matter present in sewage, both in nature and in treatment plants.

**Bacteria may be classified according to type as:**

- (i) Saprophytic bacteria,
- (ii) Parasitic bacteria,
- (iii) Pathogenic bacteria, and
- (iv) Non-pathogenic bacteria.

Saprophytic bacteria are those which live on dead or decaying organic matter, thus obtain organic matter in solution from dead and decaying tissue in plants and animals, and hence these are beneficial to mankind. Parasitic bacteria live and multiply on or within the body of a living organism of a higher type.

Pathogenic bacteria are those which may cause diseases within the living organisms on which they subsist. Non-pathogenic bacteria are harmless bacteria and under certain conditions are beneficial to human beings, animals and crops.

**According to oxygen requirements bacteria are classified as:**

- (i) Aerobic bacteria,
- (ii) Anaerobic bacteria, and
- (iii) Facultative bacteria.

**Aerobic Bacteria:**

These are those which require free oxygen for their survival, thus if present in sewage they consume dissolved oxygen from the sewage. Anaerobic bacteria are those which survive and flourish in the absence of free oxygen, and the oxygen needed by them is extracted from the oxygen radical of organic compounds and mineral substances such as nitrites ( $\text{NO}_2$ ), nitrates ( $\text{NO}_3$ ), sulphates ( $\text{SO}_4$ ). Facultative bacteria are those which can survive and flourish with or without free oxygen.

**According to temperature at which they survive and flourish, bacteria can be classified as:**

- (i) Psychrophilic bacteria which can survive and flourish between  $10^\circ$  to  $20^\circ\text{C}$ ,
- (ii) Mesophilic bacteria which can survive and flourish between  $20^\circ$  to  $40^\circ\text{C}$ , and
- (iii) Thermophilic bacteria which can survive and flourish between  $40^\circ$  to  $65^\circ\text{C}$ .

Pathogenic bacteria (or pathogens) found in sewage are discharged by human beings who are infected with disease or who are carriers of a particular disease. The usual pathogenic bacteria that may be excreted by man cause diseases of the gastrointestinal tract, such as typhoid and paratyphoid fever, dysentery, diarrhea, and cholera.

Since the identification of pathogenic bacteria in water as well as in sewage is extremely difficult, the presence of coliform bacteria is used as an indicator of the presence of pathogenic bacteria. In other words it is presumed that if coliform bacteria are present in sewage then it may also have pathogenic bacteria.

**iii. Coliform Bacteria or Coliforms or B-Coli (Bacterium Coli):**

These are rod-shaped, non-pathogenic, aerobic bacteria. The intestinal tract of man contains countless coliform bacteria. Each person discharges from 100 to 400 billion coliform bacteria per day, in addition to other kinds of bacteria.

Coliforms are harmless to man and are, in fact, useful in destroying organic matter in biological sewage treatment processes. *Escherichia coli* (or E-coli) are a type of coliform bacteria which inhabit the intestines of human beings and animals, and are thus excreted in large amount with their feces. The usual procedure for determining the presence of coliform bacteria consists of the presumptive and the confirmed tests which can be seen in Author's book entitled 'Water Supply Engineering'.

**iv. Fungi:**

Fungi are unicellular (single celled), non-photosynthetic plants capable of growing in low temperature and low pH environments. They flourish over a wide range of pH (4 to 10) and themselves modify the pH by producing organic acids and ammonia. The reproductive stage of fungi is a spore. Spores are transmitted long distances in the air by wind currents. Absence of suitable environment prevents most fungi spores from germinating.

**v. Algae:**

Algae are considered as simple photosynthetic plants with unicellular (single celled) organs of reproduction. These are the organisms that are self-nourishing by deriving energy from simple inorganic substances with the aid of sunlight. One of the most important problems facing the sanitary engineers is how to treat wastes of various origins so that the effluents do not encourage the growth of algae and other aquatic plants. The solution may be in the removal of carbon, the removal of various forms of nitrogen and phosphorus, and possibly the removal of some of the trace elements, such as iron and cobalt.

**vi. Protozoa:**

Protozoa of importance to sanitary engineers include amoebas, flagellates, and free swimming and stalked ciliates. Protozoa are essentially unicellular (single celled) animals that reproduce by binary fission. They are the lowest and the simplest forms of animal life. One form of protozoa—*Endameba histolytica* causes amoebic dysentery.

It forms cysts which are carried in the bowel discharges of infected persons and which will live for long periods in water. The protozoa are bacteria eaters and survive on dilute organic wastes by eating bacteria and thus destroy the pathogens.

When the concentration of organic waste is sufficiently high, the protozoa can utilize the soluble organic compounds for their food. They are essential in the operation of biological treatment processes and in the purification of streams because they maintain a natural balance among the different groups of micro-organisms.

**vii. Viruses:**

Viruses are infectious agents of both plant and animal cells. They are ultramicroscopic, obligate, intracellular parasites that manifest their presence by destruction or impairment of host cells. They can pass through an ultra-microscopic filter and they fall in the size range of 10 to 500 milli-microns.

Because of their small size, viruses lack the biochemical systems needed for normal metabolic cell functions and are essentially units organized solely for self-replications. A typical virus particle consists of an outer protein coat enclosing a core of nuclei acid. One group of viruses, the bacteriophages, are infectious agents of bacteria and are parasitic to bacteria.

It initiates infection by attaching itself by its tail to the wall of a bacterial cell. Out of the various forms of viruses, adenoviruses are associated with upper respiratory infections in children. Enteroviruses are found in gastro-intestinal tract and feces of man and many lower animal. Enteric viruses include coxsackie viruses, infectious hepatitis viruses, polioviruses, reoviruses, etc.

Viruses that are excreted by human beings may become a major hazard to public health. For example – from experimental studies, it has been found that from 10000 to 100000 infectious doses of hepatitis virus are emitted from each gram of feces of a patient ill with this disease. It is known that some viruses will live as long as 41 days in water or sewage at 20°C and for 6 days in a normal river.

**viii. Plants and Animals:**

Plants and animals, which are of importance to sanitary engineers, range in size from microscopic rotifers and worms to macroscopic crustaceans. A knowledge of these organisms is helpful in evaluating the condition of streams and lakes, in determining the toxicity of sewage discharged to the environment, and in observing the effectiveness of biological life in the secondary treatment processes used to destroy organic wastes.

Src: [Characteristics of Sewage: 3 Characteristics | Waste Management \(environmentalpollution.in\)](#)

## PART II NOT APPLICABLE SECTIONS

### §330.545 – Airports

The facility does not accept putrescible waste that would attract birds and is not located within five miles of any airport.

### §330.553(b)(1) – Floodplains

The facility is not located within a 100-year floodplain, and no discharge or storage of waste occurs in such areas. Domestic septage is processed in enclosed tanks with no risk of flood-related release.

### §330.553(b)(2) (A-D) – Floodplains

The facility is not located within a 100-year floodplain, and no discharge or storage of waste occurs in such areas. Domestic septage is processed in enclosed tanks with no risk of flood-related release.

### §330.553(b)(3) (A-F) – Wetlands

The facility is not located in or near jurisdictional wetlands. No dredge or fill activities are proposed, and no impact on wetlands will occur.

### §330.553(b)(4) – Wetlands

The facility is not located in or near jurisdictional wetlands. No dredge or fill activities are proposed, and no impact on wetlands will occur.

### §330.551(a) – Endangered or Threatened Species

The facility will not affect any threatened or endangered species. A biologist report was conducted to ensure there would be no destruction or adverse modification of the critical habitat of endangered or threatened species.

### §330.559(2) and §330.559(3) – Unstable Areas

#### §330.559(2) – Demonstration of Stability

The facility is located on a stable geological formation within a large private ranch. No karst features, sinkholes, or unstable soils are present.

#### §330.559(3) – Engineering Measures

No human-made features or events were identified that would impair the integrity of the facility's structural components or otherwise classify the site as an unstable area. Therefore, the proposed facility location complies with the requirement.

### §330.61(d) – Facility Layout Maps

Located on **Figure II-14**. This figure outlines the details of the proposed 2-acre facility.

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### PART II-ATTACHMENTS

<b>Attachment</b>	<b>IIA</b>	<b>Historical and Cultural Resources</b>
	<b>IIA-1</b>	<b>Texas Historical Commission (THC) Correspondence</b>
	<b>IIA-2</b>	<b>Houston Galveston Area Council of Governments (HGACG)</b>
	<b>IIB</b>	<b>Water Well Database</b>
<b>Attachment</b>	<b>IIC</b>	<b>Transportation</b>
	<b>IIC-1</b>	<b>Texas Department of Transportation (TxDOT) Correspondence</b>
	<b>IIC-2</b>	<b>Austin County Road and Bridge- Correspondence</b>
<b>Attachment</b>	<b>IID</b>	<b>Wetlands</b>
	<b>IID-1</b>	<b>Wetland and Waterbody Delineation Report</b>
	<b>IID-2</b>	<b>US Army Corps of Engineers Correspondence</b>
<b>Attachment</b>	<b>IIE</b>	<b>Endangered or Threatened Species</b>
	<b>IIE-1</b>	<b>Federally Protected Species Habitat Assessment</b>
	<b>IIE-2</b>	<b>State Listed Species Habitat Assessment</b>
	<b>IIE-3</b>	<b>Texas Department of Parks and Wildlife Correspondence</b>
	<b>IIE-4</b>	<b>U.S. Fish and Wildlife Correspondence</b>
<b>Attachment</b>	<b>IIF</b>	<b>Houston-Galveston Council of Government Cor</b>
<b>Attachment</b>	<b>IIG</b>	<b>TPDES Stormwater General Permit</b>

**Type V Liquid Processing Registration Application, Part II**  
**Austin County Waste Solutions**

---

**PART II-ATTACHMENT IIA**

**Cultural Resources Background Study**

We have conducted a Cultural Resources background study for the 2 acre privately owned property associated with the Austin County Waste Solutions project located in northeastern Austin County, Texas. The project is located approximately 1500' from the intersection of Oil Field Rd and School RD on the left at the entrance of 3655 Woodley Ln. It is approximately 0.86 miles northeast of the entrance to 3655 Woodley Ln. It is bounded by a 2,200 acre privately owned family ranch. The surrounding ranch is used for beef cattle production as well as hay production (FIGURE II-2).

The 2-acre project will be privately owned and developed; the project will not require U.S. Army Corps of Engineers (USACE) oversight per section 404 of the Clean Water Act, which in turn would not trigger compliance with Section 106 of the National Historic Preservation Act. The project may require compliance with the Antiquities Code of Texas (9 TNRC 191) due to a historical marker within one mile of the project (FIGURE II-2).

The project is located at elevations between 154-160 feet above mean sea level and is situated in the northwest edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and have mostly forest or savanna type vegetation potentials. (Griffith 2007). Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas (TPWD). The project area is not intersected by any mapped waterways.

Geologically, the project area is in the Pleistocene-age Fluvial Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces (USGS).

According to data from the Natural Resources Conservation Service (NRCS), the project location lies primarily within areas mapped as Kenny loamy fine sand on 2 to 8 percent slopes. The Kenney consists of deep well drained soils with very low runoff (Table 1; NRCS).

<b>Soil Series</b>	<b>Slope</b>	<b>Landform</b>	<b>Typical Depth of Subsoil</b>
Kenny loamy fine sand	2-8	Terraces	More than 80"

I conducted a search of the Texas Archeological Sites Atlas maintained by the Texas Historical Commission (THC) in order to identify archeological properties or districts listed in the National Register of Historic Places (NRHP), State Antiquities Landmarks (SALs),

cemeteries, or other Cultural Resources that may have been previously recorded in or near the project footprint, as well as previous surveys undertaken within a 1-mile study area around the project location (Figure II-2).

According to THC data no portion of the project area has been subjected to a survey. Three known surveys have been conducted within the 1-mile study buffer. In 1990 a historical marker (Atlas – 5015004505) was placed regarding details for Sam Houston’s Camp West of the Brazos. This marker is located 0.77 miles east of the project area. Richard Grove Cemetery (Atlas – 7015003205) is located 0.81 miles south of the project area. Stone-Motley Cemetery (Atlas 7015019405) is located 0.73 miles southeast of the project area (Table 2).

<b>Table 2. Cultural Resources Mapped within 1-mile of the project location</b>			
Resource Name	Description	Location	NRHP-eligibility
Sam Houston’s Camp West of the Brazos	Sam Houston’s camp for two weeks prior to crossing the Brazos in pursuit of the Mexican Army	Approximately 4,060 ft (0.77 miles) east of the project area	Ineligible
Richard Grove Cemetery	Cemetery next to Richard Grove Methodist Church	Approximately 4,262 ft (0.81 miles) south of the project area	N/A
Stone-Montley Cemetery	Historic-age cemetery with interments dating from the mid to late nineteenth century	Approximately 3,831 ft (0.73 miles) southeast of the project area	N/A
Source: THC (2025)			

According to the Hybrid Potential Archeological Liability Map (PALM). The entire project area is within map unit 3 (moderate potential) (Figure 2; Abbott and Pletka).

### **Summary and Recommendations**

No previously recorded cultural resources are known to be present within the project location. While the HPALM model shows moderate potential for cultural deposits, the project location is very small (2 acres) compared to the entire ranch property (2,200 acres).

There is a low probability of the project encountering human burials; however, if burials are found the THC will be notified, and all requirements of 8 THSC 711 should be followed. If any unanticipated cultural materials or deposits are found at any stage of clearing,

preparation, or construction, the work should cease in that area and USACE and THC personnel should be notified immediately.

## References

Griffith, Bryce, Omernick & Rogers

2007 Ecoregions of Texas. United States Geological Survey. Available at [Ecoregion Map - Native Plant Society of Texas](#). Accessed 24 January 2025.

Texas Parks and Wildlife (TPWD)

[Texas Ecoregions — Texas Parks & Wildlife Department](#)

Google Earth

2022 [Google Earth](#)

United States Geological Survey (USGS)

2024 Pocket Texas Geology. United States Geological Survey. Available at [USGS | Pocket Texas Geology](#). Accessed 24 January 2025

USGS Historical Topographic Map Explorer. United States Geological Survey. Available at

[Historical Topographic Maps - Preserving the Past | U.S. Geological Survey](#)

National Resources Conservation Service, U.S. Department of Agriculture (NRCS)

2024 [Web Soil Survey](#). Accessed 25 January 2025

Texas Historical Commission (THC)

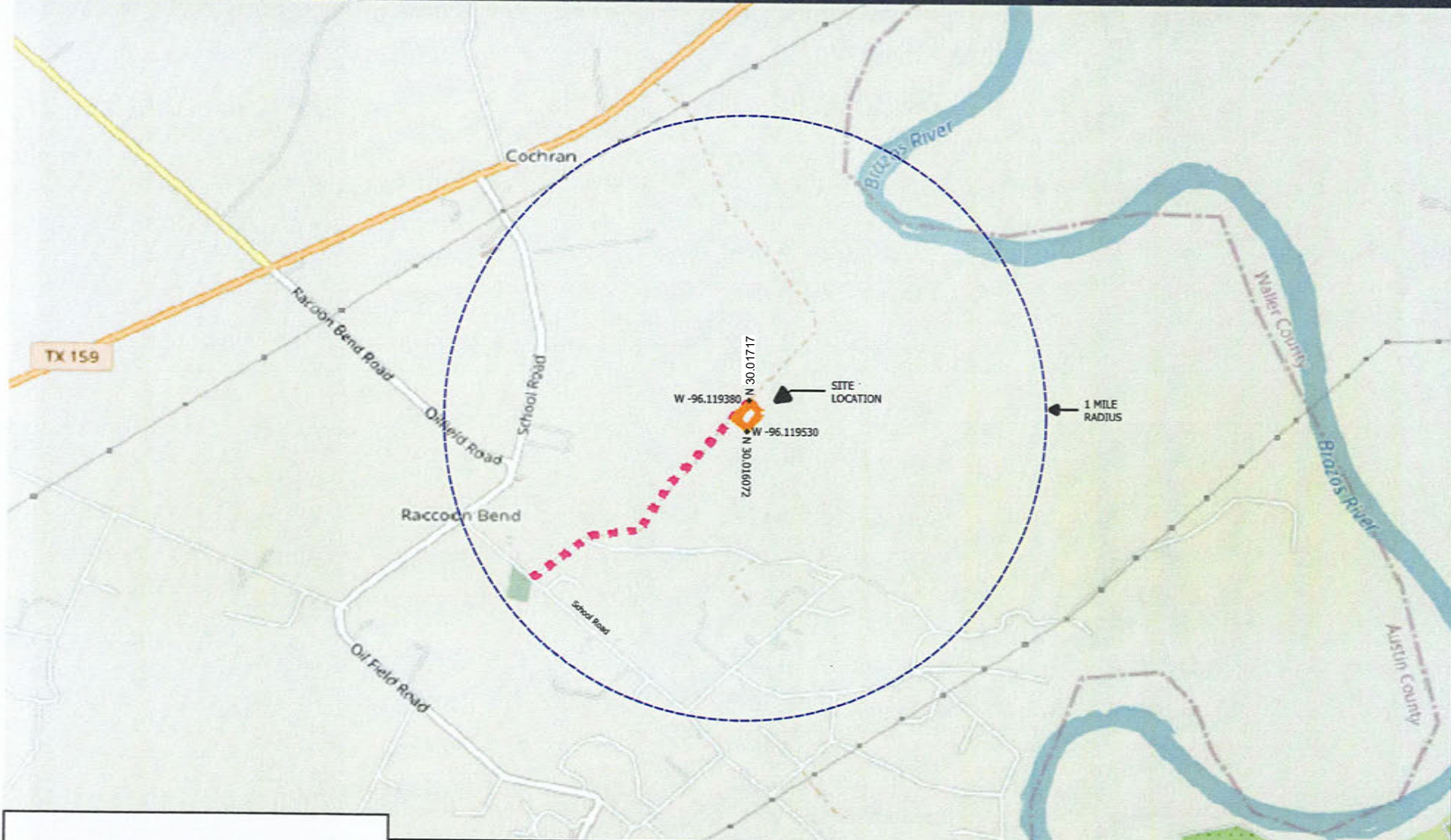
2025 Texas Archeological Sites Atlas. Texas Historical Commission. Available at [Search - Atlas: Texas Historical Commission](#). Accessed 25 January 2025

Abbott, J.T and S. Pletka

Yoakum District Hybrid Potential Archeological Liability Map. Texas Department of Transportation

[TxDOT PALM Map](#)


# Austin County Waste Solutions- Site Location Map



**Legend:**

-  Site Location Boundaries
-  Access Road to Facility
-  1 Mile Radius

Seal:



F-10131

*7/10/25*

N

Title: Site Location Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 1/02/25

Prepared by: BMG Scale: AS SHOWN

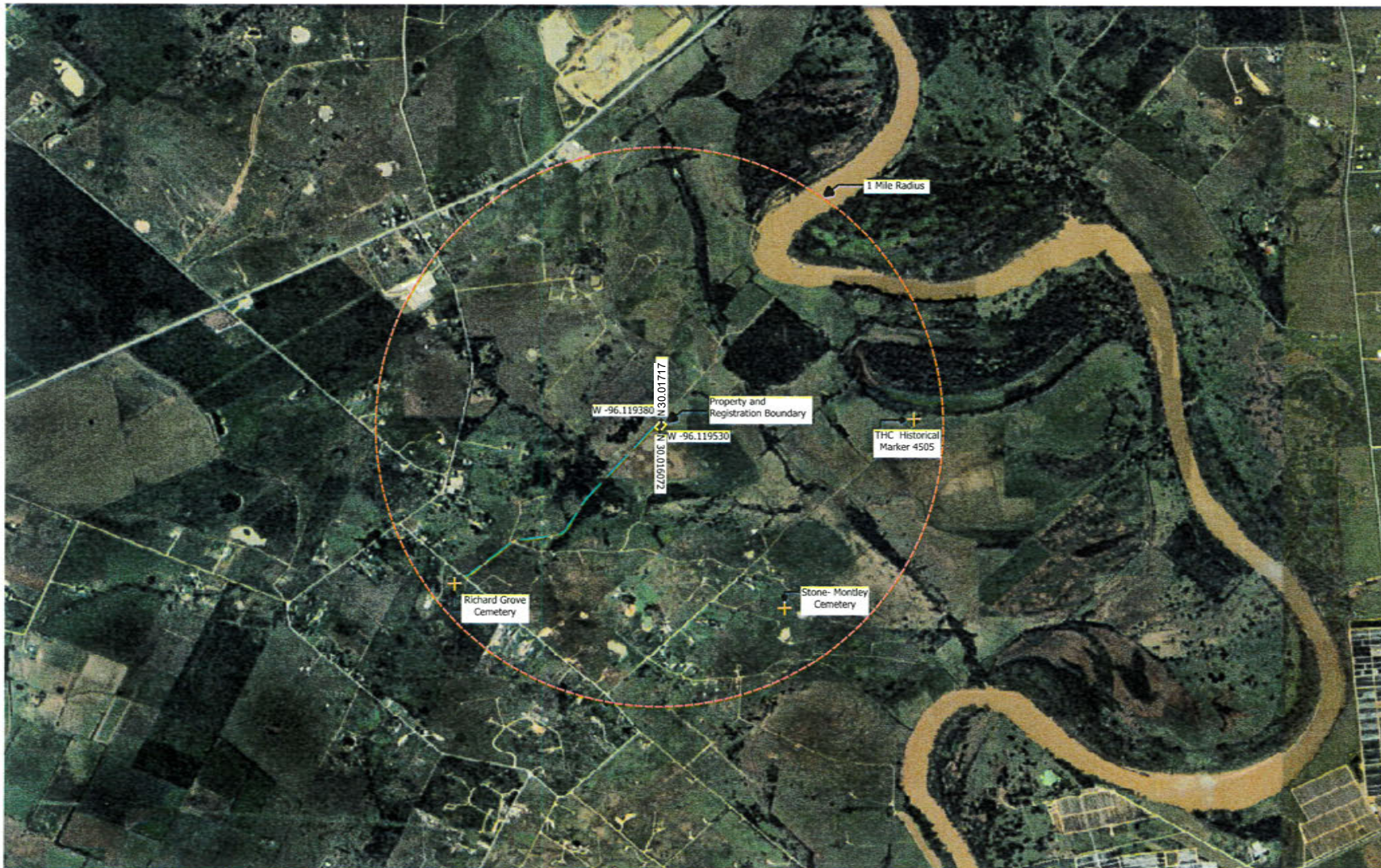
Revised:

File:  
 ACWS Liquid Processing  
 Facility- Site Location  
 Map.pdf

Figure  
**I-2**

REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)





**Legend:**

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Historical Site/ Cemetery

Seal:

Professional Engineer  
 F-10131  
 11/18/25

Title:  
 Aerial Map- Historical  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

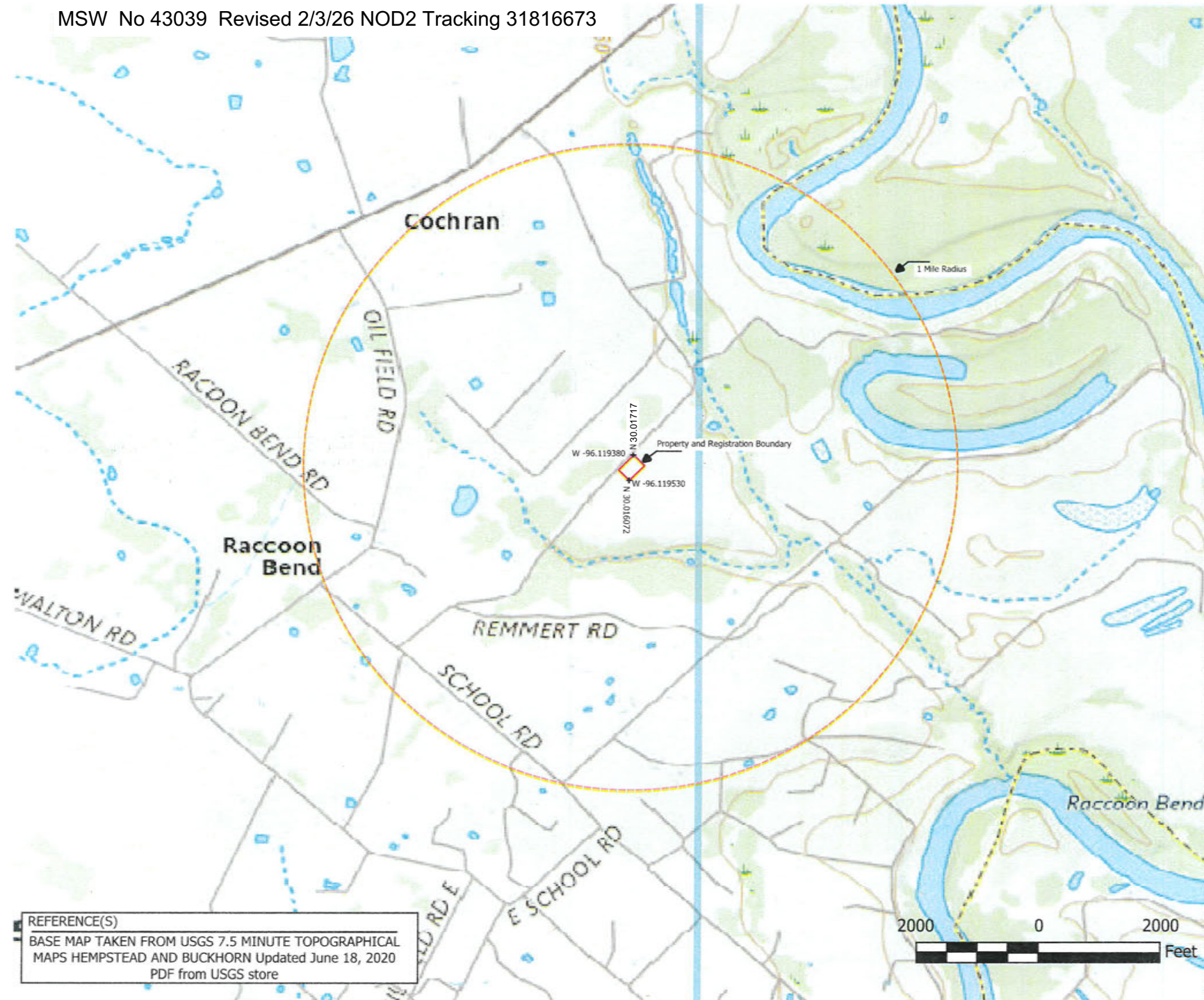
Revised:  
 File:  
 ACWS Liquid Processing Facility-  
 Aerial Map.pdf

Figure:  
**II-2**

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.  
 Information layered from Texas Historical Commission- updated 2024





**Legend:**

- Property and Registration Boundary
- 1 Mile Radius

Seal:

Seal of Timothy Aaron O'Neil, a Licensed Professional Engineer in the State of Texas. License No. 83145. The seal is dated 11/18/25.

Title:  
 General Topographical Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

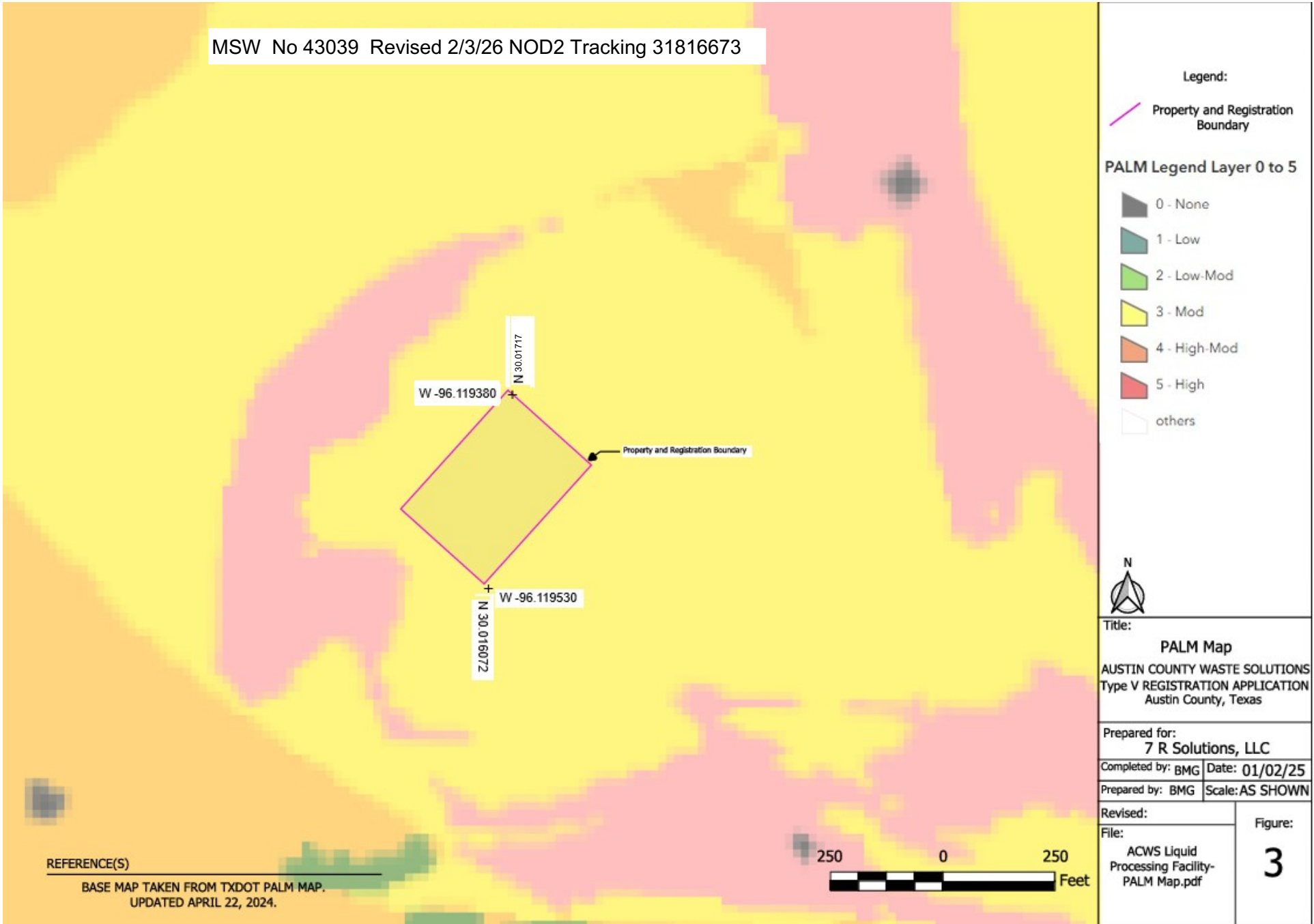
Revised:

File:  
 ACWS Liquid Processing Facility-  
 Topographical Map.pdf

Figure:  
**II-2A**

REFERENCE(S)  
 BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

MSW No 43039 Revised 2/3/26 NOD2 Tracking 31816673



# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

---

### **PART II-ATTACHMENT IIA-1**

**Texas Historical Commission (THC)  
Correspondence**

From: [REDACTED]  
Date: Mon, Mar 3, 2025 at 3:50 PM  
Subject: Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.  
[REDACTED]



Re: THC Courtesy Project Review  
THC Tracking #202505871  
Date: 03/03/2025  
Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.  
3655 Woodley LN  
Bellville, TX 77418

Description: We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste for submittal to the Texas Commission on Environmental Quality.

Dear Blake Giese:  
Thank you for your submittal regarding the above-referenced project. This response represents the comments of the Executive Director of the Texas Historical Commission (THC), as a courtesy review only and does not suffice for review under Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas.

The review staff, led by Jeff Durst and Caitlin Brashear, has completed its review and has made the following determinations based on the information submitted for review:

**Archeology Comments**

- This agency reviews projects that fall under the purview of Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas. As submitted, it appears there is no federal nexus for this project and it will be limited to private property, so the state and federal statutes mentioned above do not apply. We require notification of potential impacts to cemeteries, including individual burials, under the Texas Health & Safety Code, Chapter 711. If at any point this project should become subject to federal involvement (including federal funding or permitting); ownership or control by a political subdivision of the State of Texas (such as a public utility or local government); or if state agencies such as the Public Utilities Commission or Texas Commission on Environmental Quality direct you to consult with this agency, additional consultation with the State Historic Preservation Office will be required. This project will need to be resubmitted for review with additional information on the regulatory framework and proposed impacts. Further, if the project ultimately includes federal involvement, potential direct and indirect effects to aboveground historic resources must also be considered, which may additionally require a historic resources survey for the project's Area of Potential Effect.

We have the following comments: Regarding above-ground resources, should this project ultimately include Federal involvement additional consultation with our office would be required. Regarding potentially buried cultural resources should the project at some point be determined to include State or Federal involvement additional consultation with this office would be required.

We look forward to further consultation with your office and hope to maintain a partnership that will foster effective historic preservation. Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. If the project changes, or if new historic properties are found, please contact the review staff. If you have any questions concerning our review or if we can be of further assistance, please email the following reviewers [REDACTED]

This response has been sent through the electronic THC review and compliance system (eTRAC). Submitting your project via eTRAC eliminates mailing delays and allows you to check the status of the review, receive an electronic response, and generate reports on your submissions. For more information, visit <http://thc.texas.gov/etrac-system>.

Sincerely,

Re: Texas Historical Commission  
Liquid Processing Facility  
Type V Municipal Solid Waste  
Registration Application  
7 R Solutions, LLC  
Austin County, Texas

To Whom it May Concern,

We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) for submittal to the Texas Commission on Environmental Quality (TCEQ) Permits Section, Waste Permits Division.

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road.

In order to comply with the current Texas Administrative Code 30 TAC 330.61, we are requesting a review from the Texas Historical Commission for the development of the Facility and a subsequent rendering from THC that the development is consistent with regional plans, policies and review criteria.

If further information or documentation is required, please call the undersigned at 281-725-0121 or via email at [REDACTED]

Sincerely,

Blake Giese  
7 R Solutions  
Owner/ Operator

**Attachments:** Attachment 1 – Project Summary and Site Location Maps

Austin County Waste Solutions  
3655 Woodley Ln  
Bellville, TX 77418

RE: Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.

We have conducted a Cultural Resources background study for the 2 acre privately owned property associated with the Austin County Waste Solution project located in northeastern Austin County, Texas. The project is located approximately 1500' from the intersection of Oil Field Rd and School RD on the left at the entrance of 3655 Woodley Ln. It is approximately 0.86 miles northeast of the entrance to 3655 Woodley Ln. It is bounded by a 2,200 acre privately owned family ranch. The surrounding ranch is used for beef cattle production as well as hay production (FIGURE II-2).

The 2-acre project will be privately owned and developed; the project will not require U.S. Army Corps of Engineers (USACE) oversight per section 404 of the Clean Water Act, which in turn would not trigger compliance with Section 106 of the National Historic Preservation Act. The project may require compliance with the Antiquities Code of Texas (9 TNRC 191) due to a historical marker within one mile of the project (FIGURE II-2).

The project is located at elevations between 154-160 feet above mean sea level and is situated in the northwest edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and have mostly forest or savanna type vegetation potentials. (Griffith 2007). Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas (TPWD). The project area is not intersected by any mapped waterways.

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### **Summary and Recommendations**

No previously recorded cultural resources are known to be present within the project location. While the HPALM model shows moderate potential for cultural deposits, the project location is very small (2 acres) compared to the entire ranch property (2,200 acres).

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preparation, or construction, the work should cease in that area and USACE and THC personnel should be notified immediately.

Please let me know if you have any questions or require additional information.

Sincerely,

Blake Giese  
7 R Solutions  
Owner/MSW Operator

## References

Griffith, Bryce, Omernick & Rogers

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Texas Parks and Wildlife (TPWD)

[Texas Ecoregions — Texas Parks & Wildlife Department](#)

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[Historical Topographic Maps - Preserving the Past | U.S. Geological Survey](#)

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Texas Historical Commission (THC)

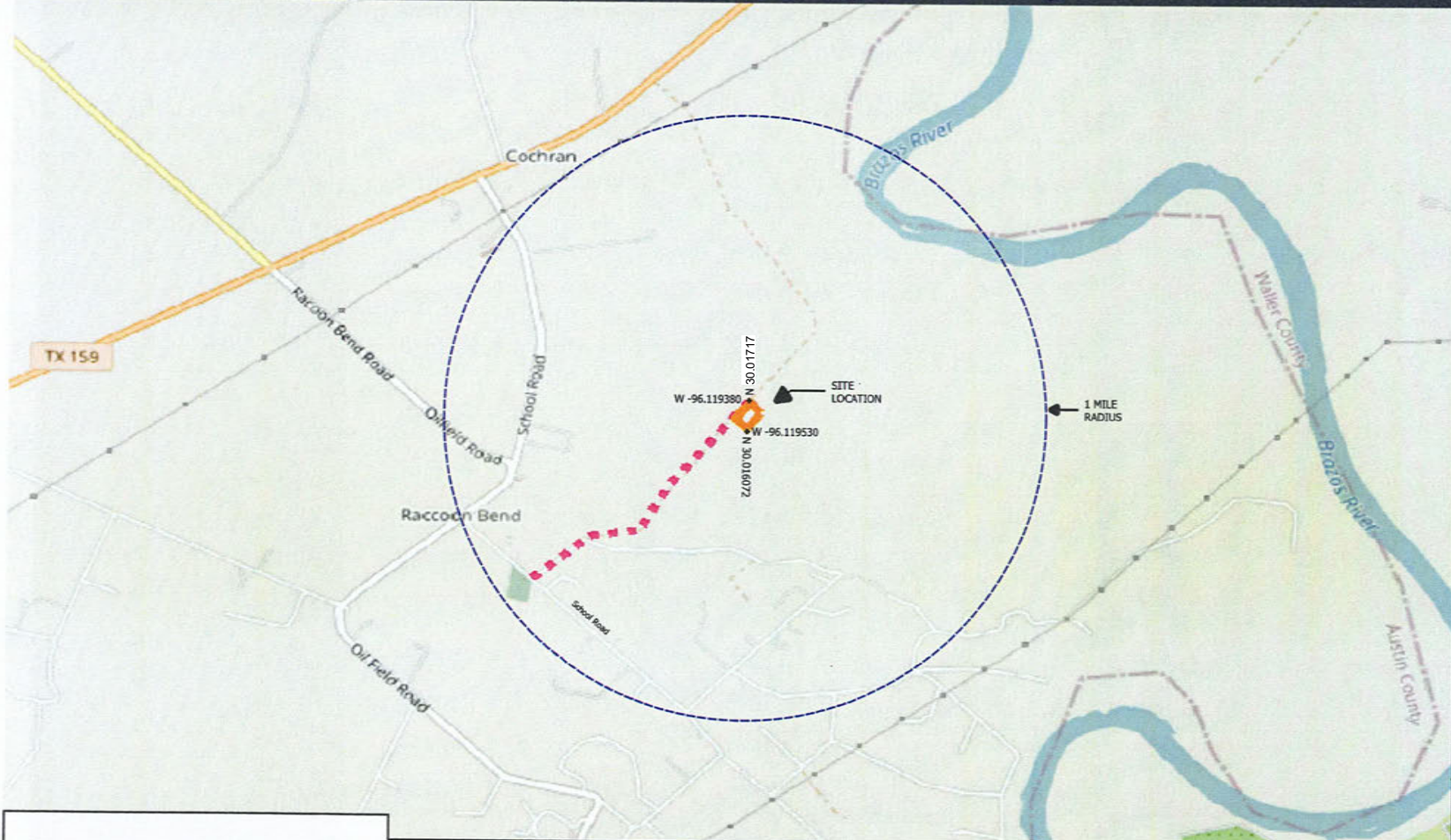
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Abbott, J.T and S. Pletka

Yoakum District Hybrid Potential Archeological Liability Map. Texas Department of Transportation

[TxDOT PALM Map](#)

# Austin County Waste Solutions- Site Location Map



**Legend:**

-  Site Location Boundaries
-  Access Road to Facility
-  1 Mile Radius

Seal:



Title: Site Location Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 1/02/25

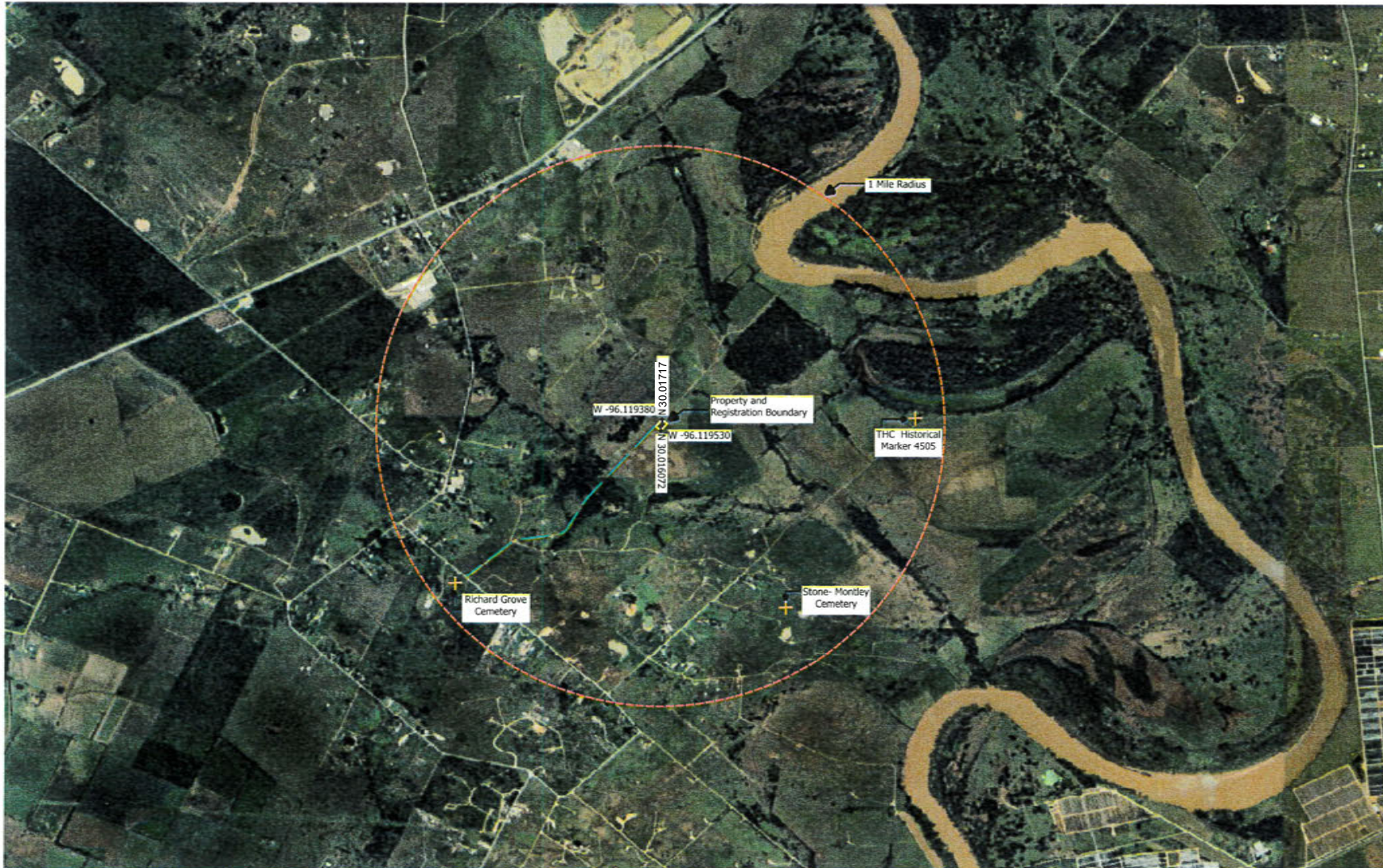
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 Facility- Site Location  
 Map.pdf

Figure  
**I-2**



REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)



Legend:	
	Property and Registration Boundary
	Access Road
	1 Mile Radius
	Historical Site/ Cemetery

Seal:

ESE PARTNERS  
 STATE OF TEXAS  
 TIMOTHY AARON O'NEIL  
 83145  
 LICENSED  
 PROFESSIONAL ENGINEER  
 F-10131  
 11/18/25

Title:  
 Aerial Map- Historical  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

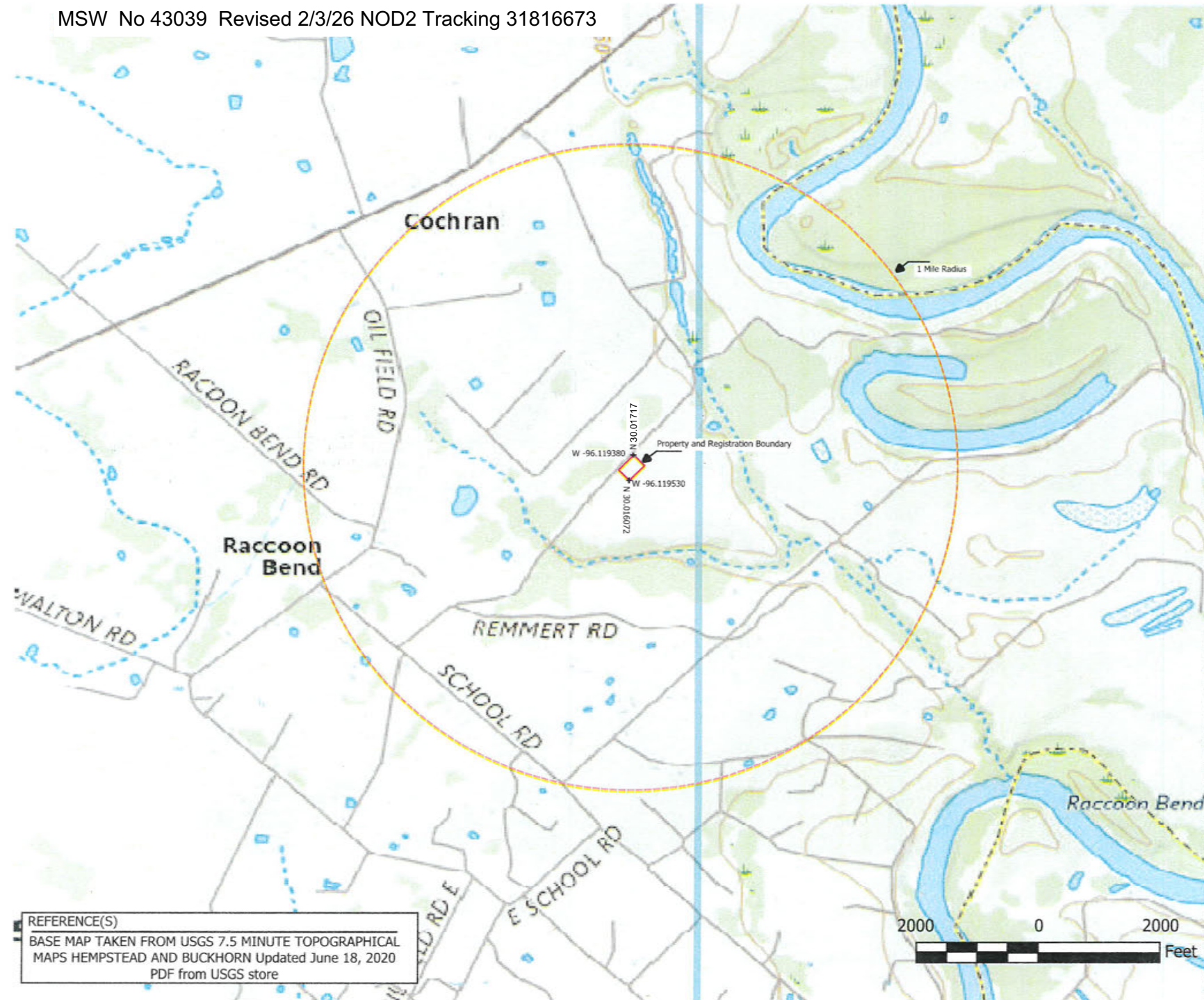
Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:	Figure:
File: ACWS Liquid Processing Facility- Aerial Map.pdf	II-2

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.  
 Information layered from Texas Historical Commission- updated 2024





**Legend:**

- Property and Registration Boundary
- 1 Mile Radius

Seal:

Seal of Timothy Aaron O'Neil, a Licensed Professional Engineer in the State of Texas. License No. 83145. The seal is dated 11/18/25.

Title:  
 General Topographical Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

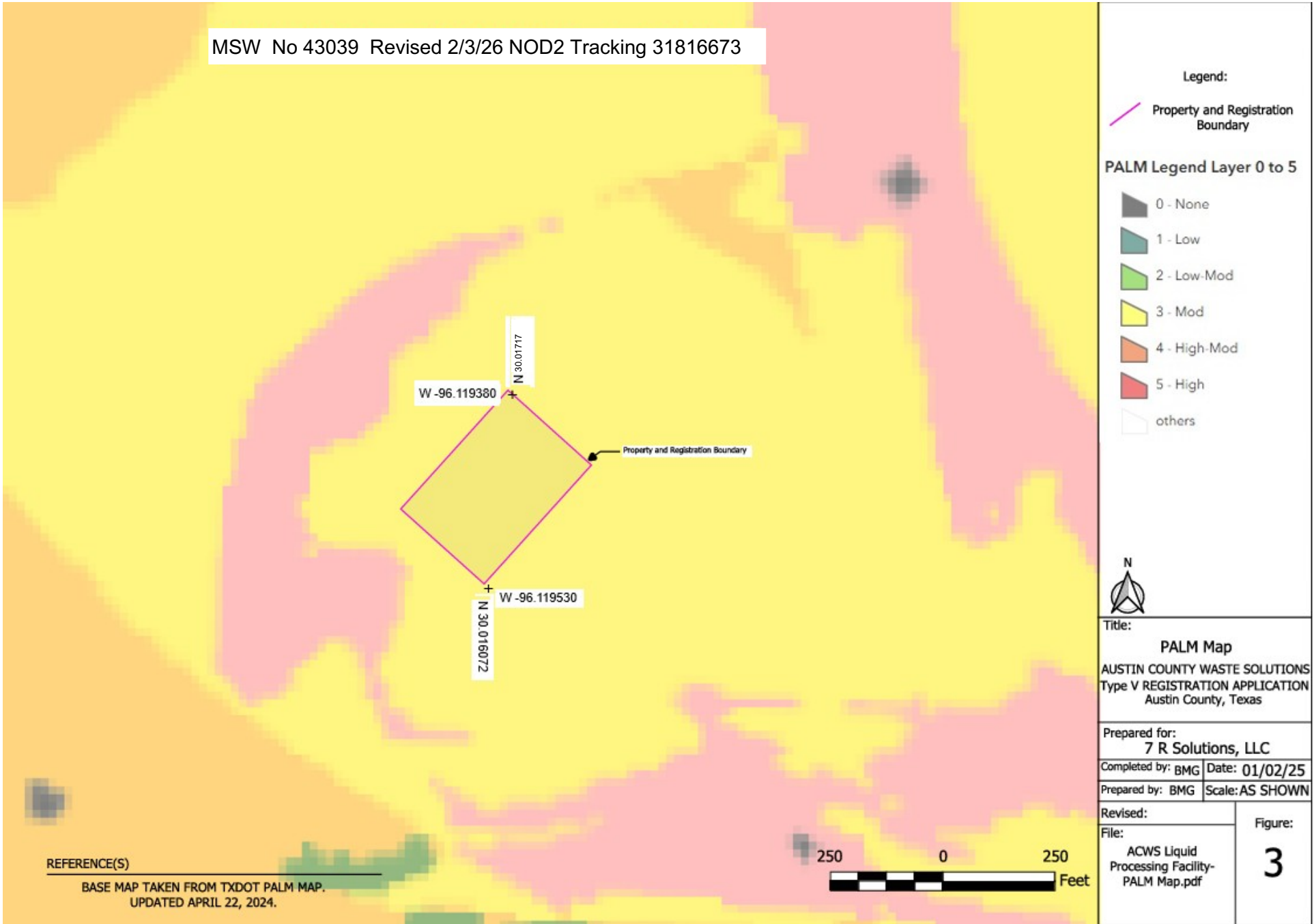
Revised:

File:  
 ACWS Liquid Processing Facility-  
 Topographical Map.pdf

Figure:  
**II-2A**

REFERENCE(S)  
 BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

MSW No 43039 Revised 2/3/26 NOD2 Tracking 31816673



# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIA-2**

**Houston Galveston Area  
Council of Governments  
(HGACG)**

- Email Sent Feb 2025: No Response**
- Revised Email Sent 11/17/25- No Response**

MSW No 43039 Revised 2/3/26 NOD2 Tracking 31816673

1 of 109 < >

Austin County Waste Solutions HGACG



B



2:02 PM (56 minutes ago) ☆ 😊 ↶ ⋮

Good afternoon Erin,

I have provided a link below that will take you to an original letter I sent to you earlier this year. It also included Parts I and II of our application to meet the requirements of 30 TAC §330.61(p). We are requesting a review from Houston-Galveston Area Council for the development of the facility.

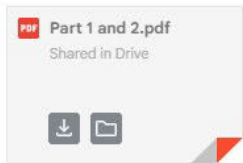
Thank you,

Blake Giese  
Owner/Operator  
7 R Solutions  
281-725-0121



[https://drive.google.com/file/d/13cUeWwYpl4U0gwPzKN6fSFsuhtGnpe-P/view?usp=drive\\_link](https://drive.google.com/file/d/13cUeWwYpl4U0gwPzKN6fSFsuhtGnpe-P/view?usp=drive_link)

One attachment • Scanned by Gmail ⓘ ✓ Added to Drive



↶ Reply   ↷ Forward   😊

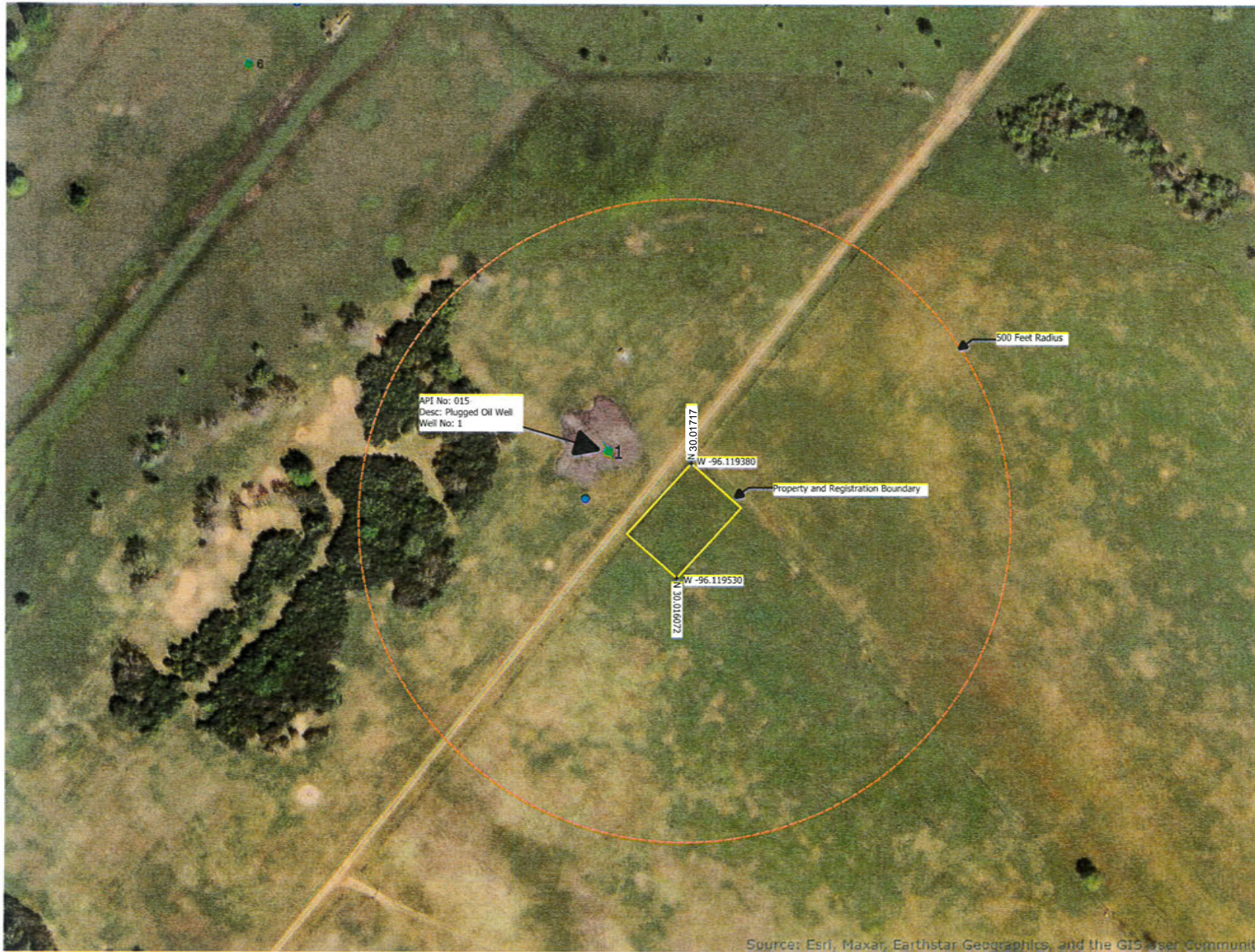
# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIB**

### **Water Well Database**



- Legend:
- Property and Registration Boundary
  - Access Road
  - 500 Feet Radius
  - Plugged Oil Well
  - Proposed Water Well

Seal:

Title:  
Oil, Gas, and Water Map  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>II-5</b>
File: ACWS Liquid Processing Facility- Oil, Gas, and Water Map.pdf	

REFERENCE(S)  
BASE MAP TAKEN FROM TEXAS RAIL ROAD COMMISSION  
GISVIEWER ERSI Updated December 2024



# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIC**

### **Transportation**

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIC-1**

**Texas Department of Transportation  
(TxDOT) Correspondence**



MSW No 43039 Revised 2/3/26 NOD2 Tracking 31816673

125 E 11th St | Austin, Texas 78701  
512.463.8588  
txdot.gov

February 26, 2025

7 R Solutions, LLC  
Blake Giese

RE: Texas Department of Transportation Traffic Review – Liquid Processing Facility Type V Municipal Solid Waste – Registration Application

Mr. Giese,

The Texas Department of Transportation (TxDOT) has reviewed the traffic report pertaining to the Liquid Processing Facility Type V Municipal Solid Waste. TxDOT's Yoakum District did not find any traffic impacts that would require remediation based on internal analysis.

TxDOT also reviewed the facility for regulations relating to the Highway Beautification Act and found that the facility will not require screening to block the view of the facility from the traveling public.

If there are any questions regarding the findings, please contact Mark Johnson at

Thank you,

DocuSigned by:  
  
C6E3A921602648F...

Mark Johnson, P.E.  
Contracts and MMS Section Director, TxDOT Maintenance Division

Re: Texas Department of Transportation Traffic Review  
Liquid Processing Facility  
Type V Municipal Solid Waste  
Registration Application  
7 R Solutions, LLC  
Austin County, Texas

To Whom it may Concern,

We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) for submittal to the Texas Commission on Environmental Quality (TCEQ) Permits Section, Waste Permits Division.

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road.

In order to comply with the current Texas Administrative Code 30 TAC 330.61, we are requesting a review from Houston-Galveston Area Council (HGAC) for the development of the Facility and a subsequent rendering from HGAC that the development is consistent with regional plans, policies and review criteria.

If further information or documentation is required, please call the undersigned at 281-725-0121 or via email at [REDACTED]

Sincerely,

Blake Giese  
7 R Solutions  
Owner/ Operator

**Attachments:** Traffic Report

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- III. Future Roadway Conditions.....2
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- VII. Conclusion.....7

## **Executive Summary**

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW), to be located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be a 0.86-mile private driveway to the facility. The proposed facility will be located on 2-acres with an office and a covered area to contain all equipment needed for the facility. Construction of the proposed project is estimated to begin in the middle of 2025 and be completed by the end of the same year.

### **I. Introduction**

#### **A. Purpose**

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW), to be located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Construction of the proposed project is estimated to begin in the middle of 2025 and be completed by the end of the same year.

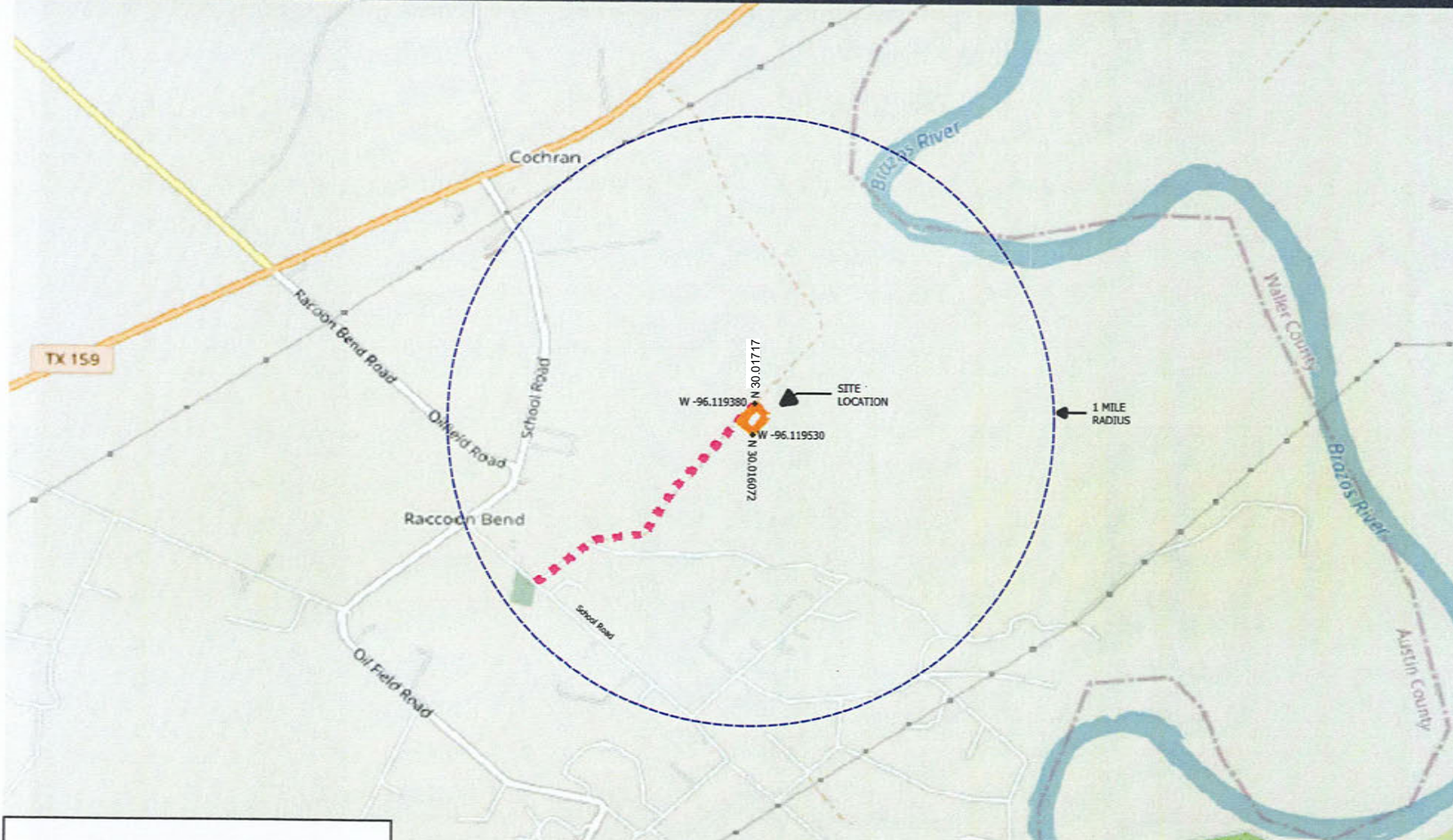
#### **B. Methodology**

The Traffic report was conducted for submittal to the Texas Commission on Environmental Quality (TCEQ) to support 7 R Solutions request to construct the project. The Traffic Report estimated the projected traffic volumes along School Road and Oil Field Road and evaluated the adequacy of the study roads to accommodate projected trips generated by the proposed development. Below you will see the location of the project with respect to Oil Field Road and School Road (Figure 1).

#### **C. Study Area**

The proposed project is covering a 2-acre area bounded by a 2,200-acre family ranch. The entrance to the facility's easement is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. The 2-acre facility is 0.86 miles northeast of this entrance on the right.

# Austin County Waste Solutions- Site Location Map



Legend:

-  Site Location Boundaries
-  Access Road to Facility
-  1 Mile Radius

Seal:



Title: Site Location Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 1/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:  
 File:  
 ACWS Liquid Processing  
 Facility- Site Location  
 Map.pdf

Figure  
**I-2**



REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)

The study area is based off the roadways that fall within a 1-mile radius of the proposed 2-acre facility (Figure I-2 Map). This includes Oil Field Road, School Road to the west, and School Road to the south.

## **II. Existing Roadway Conditions**

School Road is south and west of the facility. It is an existing two-lane undivided road with a posted speed limit of 35 miles per hour. The road is maintained by the county. The portion of School Road to the south of the facility is typically used by local traffic.

Oil Field Road is located west of the facility. It is an existing two-lane undivided road with a posted speed limit of 35 miles per hour. The road is maintained by the county.

## **III. Future Roadway Conditions**

Based of the TxDot Rural Transportation Improvement Program 2021-2024 for the Austin County, Yoakum District there is no identified specific future upgrades for either of these county roads.

## **IV. Existing Traffic Volumes**

After reviewing the Texas Department of Transportation's (TxDOT) Traffic Count Database System (TCDS). The daily traffic flow on school road within 1 mile west of the project is 335 vehicles. The estimated AADT is around 27% growth by 2042. This growth increase is approximately 1.2% annually. The traffic enters School Road which then turns to Oil Field Road (Figure 2 &3).

## Future Traffic & Percent Truck



AADT is based on 2022 Traffic Volumes

Route Name	008AA5103
AADT	335
2042 Estimated AADT	90
24 Hour Truck Percentage	3.2

Figure 2

## Texas Roadways Unsegmented

Route Name	008AA5103
Roadbed Type	Single Roadbed
Name/Number	SCHOOL RD
Begin DFO	0
End DFO	0.992

Figure 3

Oil Field Road has an average daily traffic flow of 509 vehicles. The estimated AADT is around 29% growth by 2042. This growth increase is approximately 1.3% annually (Figure 4 & 5).

### Future Traffic & Percent Truck



AADT is based on 2022 Traffic Volumes

Route Name	008AA5511
AADT	509
2042 Estimated AADT	150
24 Hour Truck Percentage	13.3

Figure 4

### Texas Roadways Unsegmented



Route Name	008AA5511
Roadbed Type	Single Roadbed
Name/Number	OIL FIELD RD
Begin DFO	0
End DFO	3.363

Figure 5

TCDS does not have any data showing for School Road in front of the project entrance, south of the facility. Nonlocal traffic does not turn off Oil Field Road and onto School Road in front of the project entrance. Based off the TXDOT Statewide Planning Map It Shows the

AADT based off 2022 Traffic Volumes being 60 vehicles with the 2042 estimated AADT will still be 60 vehicles or 0% annual growth (Figure 6 & 7).

### Future Traffic & Percent Truck



AADT is based on 2022 Traffic Volumes

Route Name	008AA5512
AADT	60
2042 Estimated AADT	60
24 Hour Truck Percentage	3.2

Figure 6

### Texas Roadways Unsegmented



Route Name	008AA5512
Roadbed Type	Single Roadbed
Name/Number	SCHOOL RD
Begin DFO	0
End DFO	1.552

Figure 7

## V. Proposed Traffic Volumes

### A. No Build Volumes

Based off the TxDOT Traffic Count Database, the average daily traffic flow on School Road within 1 mile west of the project is 335 vehicles. Oil Field Road has an average daily traffic flow of 509 vehicles. The average daily traffic flow on School Road south of the facility is 60 vehicles.

**B. Build Volumes**

During the period of construction, we could see a higher traffic flow, however we will not be receiving waste loads during this time. Where we will have loads delivering materials and employees coming on site to work. I do not see this traffic volume being higher than the loads receiving when the operation begins. Once the facility is constructed, we are expecting an average increase in traffic to the facility to be an average of 41 vehicles in a 24-hour period.

**VI. Site Traffic Characteristics**

**A. Existing Site Trip Generation**

The proposed facility site is currently used for beef cattle and hay production. There is minimal vehicle trips used for this operation. Approximately 2 trips per day when hay production is not in operation, which will increase it to approximately 8 vehicle trips per day.

**B. Proposed Site Trip Generation**

Based off our maximum gallon capacity of 42,000 gallons per day, the facility will generate a maximum average of approximately 13 pump trucks per day. Based off the data conducted the project will only add approximately 13 trucks to the current daily average to the facility. The facility will have an average of 3 employees accounting for approximately 10 trips per day. Aside from the landowner, access will only be given to TCEQ officials, employees and customers that are contracted to dispose at the facility. No access will be given to the public (Table 1)

Generated Trip Level	Inbound Pump Trucks			Employee Trips			24-Hour Weekday
	In	Out	Total	In	Out	Total	Total
Low	8	8	16	6	6	12	28
High	15	15	30	12	12	24	54

The operation hours for receiving waste at the proposed facility are 8 A.M. - 5 P.M. Monday through Friday.

### **C. Trip Distribution and Traffic Assignment**

The proposed facility will act as a disposal for domestic septage only. Pump trucks will dispose in our Liquid Processing Facility to be screened and treated for final disposal on our BFU sites. Employees will make up a small percentage of the overall trips to the facility. A trash company will be contracted to pick up all the screened inorganics ( $\pm 2\%$  of all waste received) and take them to a TCEQ approved landfill. This will also make up a very small percentage of the overall trips to the facility.

The general trip distribution percentages used for the site are summarized below:

Pump trucks (Septic Companies):

- To/ from School Road to the south 100% of the time as that is the access point to the facility
- To/ from School Road to the west approximately 50% of the time to access Oil Field Road and get to School Road again to the south.
- To/ from Oil Field Road 100% of the time to get to school road to the south.

Employee and contractors (trash service)

- To/ from School Road to the south 100% of the time as that is the access point to the facility
- To/ from School Road to the west approximately 50% of the time to access Oil Field Road and get to School Road again to the south.
- To/ from Oil Field Road 100% of the time to get to school road to the south.

### **VII. Conclusions**

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW). The proposed facility will be located on 2-acres with an office and a covered area to contain all equipment needed for the facility. Access to the facility will be a 0.86-mile private driveway to the facility.

The Traffic Report estimated the average traffic volume for the roads that fall within one mile of the facility. The projected volumes were developed by looking at the existing volumes on the study roads and annual growth rate. I then added the daily trips generated by the proposed facility.

In summary, the existing data found through TXDOT Statewide Planning Map, Traffic Count Database System (TCDS), and TxDot Rural Transportation Improvement Program 2021-2024 for the Austin County, Yoakum District show there is no near future plan of road development and very low traffic growth for the roads studied.

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIC-2**

### **Austin County Road and Bridge Correspondence**



in:sent



1 of 137

Compose

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Starred

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Drafts

Purchases

More

Labels

Customer List

ENGINEERING

MSW CEU

MSW DATABASE LINK

Saved Emails

SLAUGHTERHOUSE

Upgrade



### MSW Registration No. 43039 – Austin County Waste Solutions



Summarize this email



**Blake Giese** [Redacted]

11:44 AM (0 minutes ago)



Mr. Mikel,

I am currently in the application process with the TCEQ for a MSW Type V Liquid Processing Facility that is located in your precinct. It is located at 3655 Woodley Ln Bellville, TX 77418. The TCEQ has requested us to send a notification to the agency that exercises the maintenance of public roadways within one mile of the facility. Our facility is located 0.86 miles off of School Road. School Road and Oil Field Road would be within one mile of the facility.

I have submitted a traffic report to TxDOT and attached their response for your review.

The facility will only accept domestic septage products. Loads will be delivered via pump truck (AVG - 1,500 - 5,500 gallon capacity). Based on our maximum gallon capacity of 42,000 gallons per day, the facility will generate a maximum average of approximately 13 pump trucks per day.

Please let me know if you have any questions.

Thank you,

Blake Giese  
Owner/Operator

Reply

Forward

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### PART II-ATTACHMENT IID

#### Wetlands

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

---

### **PART II-ATTACHMENT IID-1**

## **Wetland and Waterbody Delineation Report**

# Summary of Findings Report

Wetland and Waterbody Delineation

7 R Solutions, LLC

Type V Registration Application

Submitted to:

**7 R Solutions, LLC**

Submitted by:

**Faith Chase, Wildlife Biologist**

22 E Chatham St

Bellville, TX 77418

March 2025

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## 1.0 Introduction

Faith Chase prepared this Summary of Findings Report on behalf of 7 R Solutions, LLC for a Type V Liquid Waste Processing Facility located in Austin County, Texas. She performed a wetland and waterbody delineation for the Project to ensure compliance with all federal regulations and to assist with the evaluation of impact that may result from new facility construction within the Project Area.

## 2.0 Methodology

Faith performed an environmental resources analysis of the entire Project. A Project Survey Area was created to identify all protected resources that may be impacted by the Project. The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

### 2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- Historic and Current Aerial Photographs
- USGS National Hydrography Dataset (NHD)
- National Wetlands Inventory (NWI) Dataset
- Natural Resource Conservation Service (NRCS) soil survey database
- Federal Emergency Management Agency (FEMA) floodplain Maps

### 2.2 Field Surveys

The environmental resources survey consisted of the identification of all Waters of the United States (WOUS) including wetlands, waterbodies, and ponds. All environmental resources identified within the Survey Area were identified within the Survey Area were delineated. Photographs of the resources identified within the Survey Area are Provided in Appendix B.

## 2.2.1 Wetlands

Wetland and waterbody surveys consisted of a pedestrian survey conducted in the field within the Survey Area to observe and record existing site conditions. Faith followed the USACE standard procedures to evaluate WOUS, including wetlands and waterbodies subject to regulations under the Clean Water Act, otherwise known as jurisdictional WOUS. Procedures followed were in accordance with the guidance established in the Corps of Engineers Wetlands Delineation Manual: Great Plains Region, Version 2.0 (USACE, 2010); and the USACE Jurisdictional Determination Form Instructional Guide (USACE, 2007). The USACE guidance documents state that, with certain exemptions, an area must have adequate hydrology, a predominance of hydrophytic vegetation, and the presence of hydric soil indicators to be considered a wetland.

The predominate land cover, habitat types, and potential aquatic resources within the Survey Area were evaluated and documented. At each sample location, Faith performed an assessment of vegetation, soil type/characteristics, and surface/subsurface hydrology to determine the presence or absence of wetland indicators. Data collected at the sample location is presented on the USACE Routine Wetland Determination Data Forms provided in Appendix C. Photographs depicting typical site conditions during the field surveys are included in Appendix B.

Vegetation was identified by morphological indicators such as flowers, leaves, clumps, stalks, ligules, bark, blubs, stems, nodes, and fruit. The wetland indicator status for vegetation noted during the evaluations were obtained from the USACE National Wetland Plant List. Soil was evaluated by using criteria established by the NRCS Keys to Soil Taxonomy (Soil Survey Staff, 2015) and Field Indicators of Hydric Soils in the United States (USDA NRCS, 2016). Soil Colors were evaluated using a Munsell Color Chart. Hydrology was evaluated through direct observation of standing water and/or saturated soil, and indirectly through observation of primary and secondary visual indicators of hydrology, as indicated in the Regional Supplement.

## 2.2.2 Waterbodies

Waterbody surveys were conducted within the Survey Area to identify areas that displayed an ordinary high-water mark (OHWM). An OHWM is indicated as physical characteristics defined by the USACE as a “clear, natural line impressed on the bank, shelving, changes in the character soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.” Some areas that may not have an OHWM are also included as water bodies, such as manmade ponds, lakes, and other bodies of open water.

## 3.0 Field Survey Results

### 3.1 Wetlands

No wetlands were identified by Faith within the Survey Area

### 3.2 Vegetation

On the Project site, vegetation included: Bermuda grass( *Cynodon dactylon*), Henbit (*Lamium amplexicaule*), Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leucotricha*).

### 3.3 Soils

Using a spade, Faith took a twelve inch soil sample in two pieces that broke at a natural change in the soils. The top six inches were loamy and the bottom seven inches were a sandy loam. Review of the NRCS Soil Survey data showed data showed a total of one soil series are located within the Survey Area, which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	Slope	NRCS Drainage Rating	NRCS Hydrology Rating
Kenney loamy fine sand	2-8%	Well Drained	Not Hydric

### 3.4 Hydrology

The Survey Area is located within one Environmental Protection Agency (EPA) Hydrologic Unit Code (HUC) 8 watershed, Lewis Creek-Lower Brazos (12030103). No primary or secondary hydrologic indicators were observed within the Survey Area. Review of the aerial imagery confirms these observations.

### 3.5 Waterbodies

No waterbodies were identified by Faith within the Survey Area.

### 3.6 Historical Land Use and Modifications

The site has historically been used for cattle grazing and hay production, as evident by aerial imagery.

## 4.0 Clean Water Act Section 404 Discussion

Section 404 of the Clean Water Act regulates the discharge of dredged or fill material into WOUS, including wetlands, streams, and ponds. Any activity that may result in the discharge or dredge or fill material is subject to permitting, pending the level of impacts that result from the proposed action. Faith did not identify any wetlands or waterbodies within the Survey Area.

## 5.0 Conclusion

Faith's resource analysis of the Project Survey determined that no wetlands or waterbodies are present within the Survey Area. This report is intended for planning purposes and has not been submitted to the USACE for concurrence.

Faith's evaluation was performed in general accordance with accepted procedures in conducting habitat and aquatic resource evaluations. Faith makes no representation for a period of time over which this evaluation will remain valid. Faith's conclusion reflects our professional opinion based on conditions present at the time of the evaluation. Discrepancies may arise between current and future evaluations within the study area due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made. The opinions of Faith's Professional consulting team have not been reviewed or concurred with by regulatory agencies, including the USACE, for compliance with state and Federal regulations.

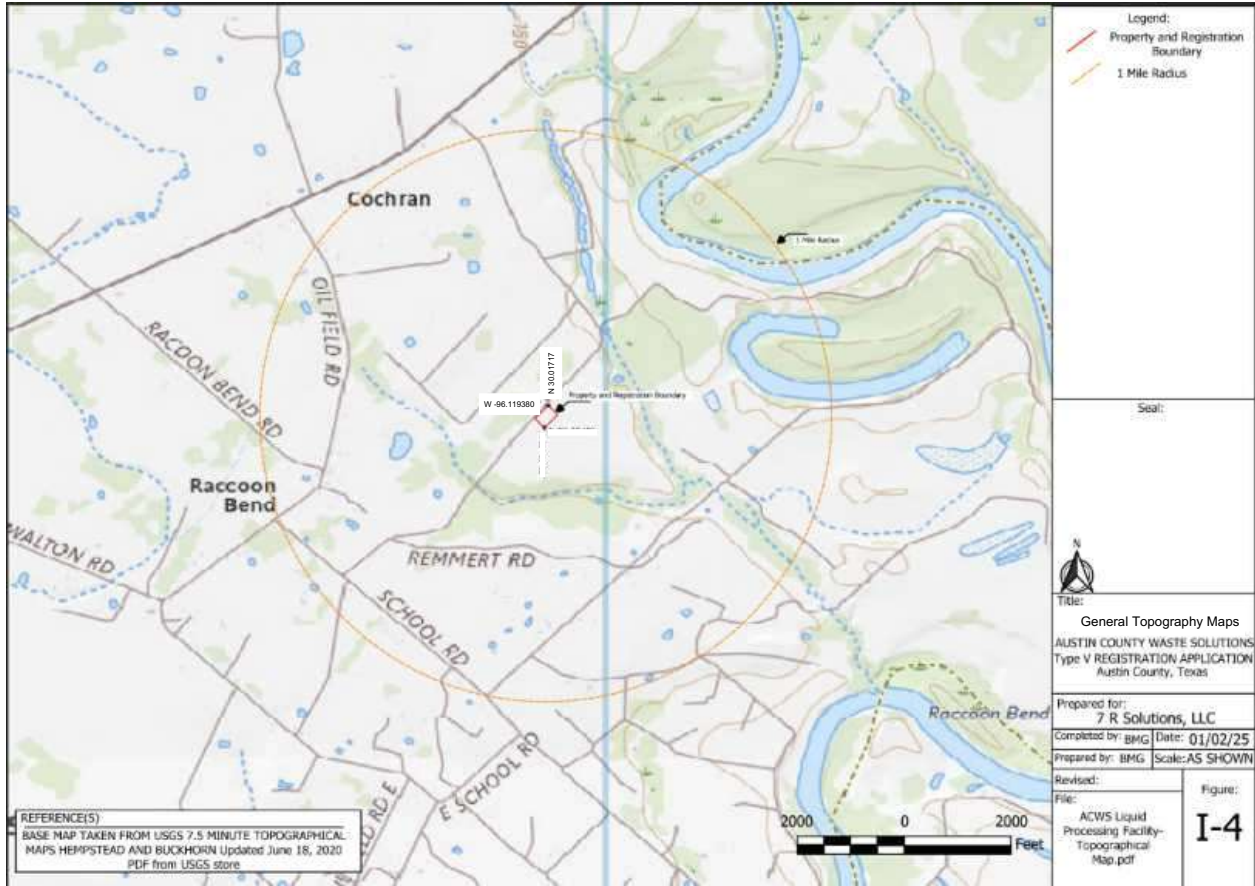
## Signature

Faith Chase  
Wildlife Biologist

# Appendices

## Appendix A - Project Maps





## Appendix B - Photolog





## Appendix C - Datasheets

**WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region**

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025  
 Applicant/Owner: Blake Giese State: TX Sampling Point: \_\_\_\_\_  
 Investigator(s): Faith Chase Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8  
 Subregion (LRR or MLRA): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: KeD NWI classification: \_\_\_\_\_

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: <b>Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.</b>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply)	<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION (Five Strata) – Use scientific names of plants.**

Sampling Point: \_\_\_\_\_

Tree Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Sapling Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Shrub Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Herb Stratum (Plot size: _____ )				
1. <i>Lamium amplexicaule</i>	20	No	▼ UPL ▼	
2. <i>Cyodon dactylon</i> (Dead Matter)	40	Yes	▼ FACU ▼	
3. <i>Nassella leucotricha</i>	25	Yes	▼ UPL ▼	
4. <i>Vicia villosa</i>	5	No	▼ UPL ▼	
5. <i>Stellaria media</i>	5	No	▼ FACU ▼	
6. <i>Torilis arvensis</i>	5	No	▼ UPL ▼	
7. _____	_____			
8. _____	_____			
9. _____	_____			
10. _____	_____			
11. _____	_____			
				100 = Total Cover
50% of total cover: _____				20% of total cover: _____
Woody Vine Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Remarks: (If observed, list morphological adaptations below).				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>100</u> (A)	<u>455</u> (B)

Prevalence Index = B/A = 4.55

---

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Definitions of Five Vegetation Strata:**

**Tree** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

**Sapling** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

**Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

**Herb** – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

**Woody vine** – All woody vines, regardless of height.

---

**Hydrophytic Vegetation Present?**      Yes       No

**SOIL**

Sampling Point: \_\_\_\_\_

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**      **Indicators for Problematic Hydric Soils<sup>3</sup>:**

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Histosol (A1)</li> <li><input type="checkbox"/> Histic Epipedon (A2)</li> <li><input type="checkbox"/> Black Histic (A3)</li> <li><input type="checkbox"/> Hydrogen Sulfide (A4)</li> <li><input type="checkbox"/> Stratified Layers (A5)</li> <li><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</li> <li><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</li> <li><input type="checkbox"/> Muck Presence (A8) (LRR U)</li> <li><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</li> <li><input type="checkbox"/> Depleted Below Dark Surface (A11)</li> <li><input type="checkbox"/> Thick Dark Surface (A12)</li> <li><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</li> <li><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)</li> <li><input type="checkbox"/> Sandy Gleyed Matrix (S4)</li> <li><input type="checkbox"/> Sandy Redox (S5)</li> <li><input type="checkbox"/> Stripped Matrix (S6)</li> <li><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</li> <li><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</li> <li><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)</li> <li><input type="checkbox"/> Loamy Gleyed Matrix (F2)</li> <li><input type="checkbox"/> Depleted Matrix (F3)</li> <li><input type="checkbox"/> Redox Dark Surface (F6)</li> <li><input type="checkbox"/> Depleted Dark Surface (F7)</li> <li><input type="checkbox"/> Redox Depressions (F8)</li> <li><input type="checkbox"/> Marl (F10) (LRR U)</li> <li><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</li> <li><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</li> <li><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</li> <li><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</li> <li><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</li> <li><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</li> <li><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 1 cm Muck (A9) (LRR O)</li> <li><input type="checkbox"/> 2 cm Muck (A10) (LRR S)</li> <li><input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B)</li> <li><input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)</li> <li><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B)</li> <li><input type="checkbox"/> Red Parent Material (TF2)</li> <li><input type="checkbox"/> Very Shallow Dark Surface (TF12)</li> <li><input type="checkbox"/> Other (Explain in Remarks)</li> </ul> |
|--|--|---|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present?    Yes     No

Remarks:

**Type V Liquid Processing Registration Application, Part II**  
**Austin County Waste Solutions**

---

**PART II-ATTACHMENT IID-2**

**US Army Corps of  
Engineers Correspondence**

**N/A Not Required**

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIE**

### **Endangered or Threatened Species**

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIE-1**

#### **Federally Protected Species Habitat Assessment**

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# Federally Protected Species Habitat Assessment

7 R Solutions, LLC

Type V Registration Application

Submitted to:

**U.S. Fish and Wildlife Service**

Texas Coastal Ecological Services Field Office

Houston Field Office

17629 El Camino Real #211

Houston, Texas 77058

Submitted by:

**Faith Chase, Wildlife Biologist**

22 E Chatham St

Bellville, TX 77418

March 2025

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## 1.0 Introduction

Faith Chase prepared this Federally Protected Species Habitat Assessment Report on behalf of 7 R Solutions, LLC for a Type V Liquid Waste Processing Facility located in Austin County, Texas. She performed an environmental resource analysis for the Project to determine the likelihood of impacts to federally listed threatened and endangered (T&E) species, avian species protected by the Migratory Bird Treaty Act (MBTA) and Bald and Golden Eagle Protection Act (BGEPA) from continued operations and additional construction within the Project Area.

## 2.0 Methodology

Faith performed an environmental resource analysis of the entire Project. A Survey Area totaling approximately 1 acre was created to identify all resources that may be impacted by the project. The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

### 2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- Historic and Current Aerial Photographs
- NRCS Soil Survey Database
- United States Fish and Wildlife Service (USFWS) Information for Planning and Consulting online mapping system

#### 2.1.1 USGS Topographic Survey Maps and Aerial Photography

Faith reviewed the USGS Topographic Map prior to conducting field surveys. The topographic map shows the project area as historically being used for cattle grazing and as a hay field. Historic and current aerial imagery shows that is also the current land use.

## 2.1.2 NRCS Soils Data

Review of the NRCS Soil Survey data showed a total of one soil series are located within the survey area which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	Slope	NRCS Drainage Rating	NRCS Hydrology Rating
Kenney loamy fine sand	2-8%	Well Drained	Not Hydric

## 2.1.3 USFWS IPaC

The USFWS IPaC identified a total of ten federally listed T&E species as potentially occurring within the Survey Area. The Little Blue Heron (*Egretta caerulea*) and Prairie Loggerhead Shrike (*Lanius undovicianus excubitorides*) only require evaluation for wind energy related projects within their migratory route and are not discussed within this report. A habitat assessment was performed for the Project for the remaining eight species.

## 2.2 Field Surveys

Faith conducted field surveys to evaluate if the Survey Area contained suitable habitat for federally listed T&E species. The field survey consisted of the identification of biological resources (federally listed threatened and endangered species occurrences, potentially suitable habitat, and any designated critical habitat). Photographs of the resources identified within the Survey Area are provided in Appendix B.

## 3.0 Field Survey Results

### 3.1 Vegetation

On the Project site, vegetation included: Bermuda grass (*Cynodon dactylon*), Henbit (*Lamium amplexicaule*), Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leucotricha*). Additional information regarding vegetation observed is included within the datasheets provided as Appendix C

## 3.2 Historical Land Use and Modifications

The site has historically been used for cattle grazing and hay production, as evident by aerial imagery.

## 3.3 Federally Listed T&E Species

Faith performed a habitat evaluation for eight of the ten species identified by the USFWS IPaC, which is provided as Appendix D. Table 2 below lists the species, their federal status, habitat requirements, and effect determinations.

Table 2: Federally Listed Specie for the Survey Area

Species	Federal Status	Habitat Requirements	Effect Determination
Wood Frog <i>Lithobates houstonensis</i>	Endangered	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Effect
Whooping Crane <i>Grus americana</i>	Endangered	This species requires bunch grasses and small shrubbery and is found along the coastal plains. No suitable habitat is present within the area	No Effect
Least Tern <i>Sterna bergii</i>	Threatened	This species requires coastline. No suitable habitat is present within the area	No Effect
Red Knot <i>Calidris alpina</i>	Threatened	This species requires coastline. No suitable habitat is present within the area	No Effect
Whooping Crane <i>Grus americana</i>	Endangered	This species requires ponds or ephemeral wetlands. No suitable habitat is present within the area	No Effect
Indiana Bat <i>Myotis subflavus</i>	Rare	This species requires caves. No suitable habitat is present within the area	No Effect
Wading Tattler <i>Tringa macularia</i>	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Effect
Black-chinned Stilt <i>Himantopus mexicanus</i>	Rare	Habitat description unavailable	Unable to anticipate potential impact

<i>plexippus plexippus</i>			
----------------------------	--	--	--

### 3.4 MBTA and BGEPA

NO trees containing suitable nesting habitat for MBTA protected species were observed within the Survey Area. Additionally, no trees were observed within or adjacent to the Survey Area that would provide suitable nesting habitat for raptor species, bald eagles, or golden eagles. No impacts are anticipated wot avian species from the project.

### 4.0 Conclusion

Faith's determined that construction of the Project will result in *no effect* to any Federally listed T&E species identified as potentially occurring within the Survey Area by the USFWS IPaC. No trees were observed within the Survey Area to provide suitable nesting habitat to MBTA protected species. Additionally, no suitable nesting trees were observed adjacent to the Survey Area that would provide suitable nesting habitat to BGEPA protected species.

Faith's conclusion reflects her professional opinion based on conditions present at the time of evaluation. Discrepancies may arise between current and future evaluation of wetlands at the project due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made.

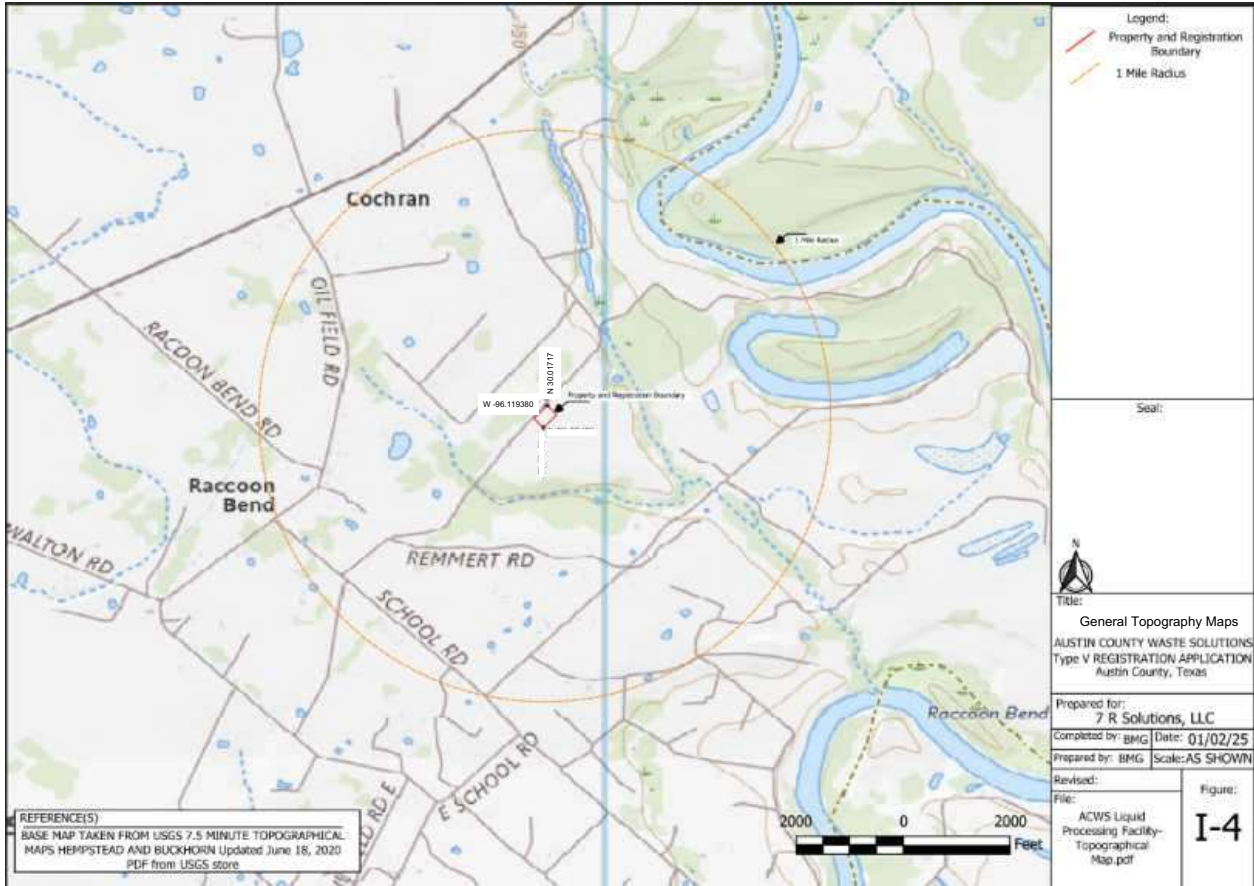
### Signature

Faith Chase  
Wildlife Biologist

# Appendices

## Appendix A - Project Maps





## Appendix B - Photolog



## Appendix C - Datasheets

**WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region**

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025  
 Applicant/Owner: Blake Giese State: TX Sampling Point: \_\_\_\_\_  
 Investigator(s): Faith Chase Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8  
 Subregion (LRR or MLRA): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: KeD NWI classification: \_\_\_\_\_

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: <b>Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.</b>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply)	<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION (Five Strata) – Use scientific names of plants.**

Sampling Point: \_\_\_\_\_

Tree Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Sapling Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Shrub Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Herb Stratum (Plot size: _____ )				
1. <i>Lamium amplexicaule</i>	20	No	▼ UPL ▼	
2. <i>Cyodon dactylon</i> (Dead Matter)	40	Yes	▼ FACU ▼	
3. <i>Nassella leucotricha</i>	25	Yes	▼ UPL ▼	
4. <i>Vicia villosa</i>	5	No	▼ UPL ▼	
5. <i>Stellaria media</i>	5	No	▼ FACU ▼	
6. <i>Torilis arvensis</i>	5	No	▼ UPL ▼	
7. _____	_____			
8. _____	_____			
9. _____	_____			
10. _____	_____			
11. _____	_____			
				100 = Total Cover
50% of total cover: _____				20% of total cover: _____
Woody Vine Stratum (Plot size: _____ )				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
				0 = Total Cover
50% of total cover: _____				20% of total cover: _____
Remarks: (If observed, list morphological adaptations below).				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>100</u> (A)	<u>455</u> (B)

Prevalence Index = B/A = 4.55

---

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Definitions of Five Vegetation Strata:**

**Tree** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

**Sapling** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

**Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

**Herb** – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

**Woody vine** – All woody vines, regardless of height.

---

**Hydrophytic Vegetation Present?** Yes  No

**SOIL**

Sampling Point: \_\_\_\_\_

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5)
- \_\_\_ Organic Bodies (A6) (LRR P, T, U)
- \_\_\_ 5 cm Mucky Mineral (A7) (LRR P, T, U)
- \_\_\_ Muck Presence (A8) (LRR U)
- \_\_\_ 1 cm Muck (A9) (LRR P, T)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Coast Prairie Redox (A16) (MLRA 150A)
- \_\_\_ Sandy Mucky Mineral (S1) (LRR O, S)
- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)
- \_\_\_ Dark Surface (S7) (LRR P, S, T, U)

- \_\_\_ Polyvalue Below Surface (S8) (LRR S, T, U)
- \_\_\_ Thin Dark Surface (S9) (LRR S, T, U)
- \_\_\_ Loamy Mucky Mineral (F1) (LRR O)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)
- \_\_\_ Marl (F10) (LRR U)
- \_\_\_ Depleted Ochric (F11) (MLRA 151)
- \_\_\_ Iron-Manganese Masses (F12) (LRR O, P, T)
- \_\_\_ Umbric Surface (F13) (LRR P, T, U)
- \_\_\_ Delta Ochric (F17) (MLRA 151)
- \_\_\_ Reduced Vertic (F18) (MLRA 150A, 150B)
- \_\_\_ Piedmont Floodplain Soils (F19) (MLRA 149A)
- \_\_\_ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- \_\_\_ 1 cm Muck (A9) (LRR O)
- \_\_\_ 2 cm Muck (A10) (LRR S)
- \_\_\_ Reduced Vertic (F18) (outside MLRA 150A,B)
- \_\_\_ Piedmont Floodplain Soils (F19) (LRR P, S, T)
- \_\_\_ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- \_\_\_ Red Parent Material (TF2)
- \_\_\_ Very Shallow Dark Surface (TF12)
- \_\_\_ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

---

### **PART II-ATTACHMENT IIE-2**

### **State Listed Species Habitat Assessment**

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# State Listed Species Habitat Assessment

7 R Solutions, LLC

Type V Liquid Waste Processing

Submitted to:

Texas Parks and Wildlife Department

Wildlife Division

Wildlife Habitat Assessment Program

4200 Smith School Road

Austin, TX 77032

Submitted by:

Faith Chase

22 E Chatham St

Bellville, TX 77418

March 2025

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## 1.0 Introduction

Faith Chase prepared this State Listed Species Habitat Assessment Report on behalf of Austin County Waste Solutions for a Type 5 Liquid Waste Processing Facility located in Austin County, Texas. She performed a state listed species habitat assessment for the Project to ensure compliance with all federal regulations and to assist with the evaluation of impact that will result from continued operations and additional construction within the Project Area.

## 2.0 Methodology

Faith performed an environmental resource analysis of the entire Project. A Survey Area totaling approximately 1 acre was created to identify potential resources that may be impacted by the project. The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

### 2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- Historic and Current Aerial Photographs
- NRCS Soil Survey Database
- TPWD Rare, Threatened, and Endangered Species List for Austin County
- TPWD Texas Natural Diversity Database Element Occurrence Data set for Austin County
- TPWD and Texas Partners in Flight Migratory Bird Ecoregion Checklist

#### 2.1.1 USGS Topographic Survey Maps and Aerial Photography

Faith reviewed the USGS Topographic Map prior to conducting field surveys. The topographic map shows the project area as historically being used for cattle grazing and as a hay field. Historic and current aerial imagery shows that is also the current land use.

### 2.1.2 NRCS Soils

Review of the NRCS Soil Survey data showed a total of one soil series are located within the survey area which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	Slope	NRCS Drainage Rating	NRCS Hydrology Rating
Kenney loamy fine Sand	2-8%	Well Drained	Not Hydric

### 2.1.3 State Listed Rare, Threatened, and Endangered Species Surveys

Faith reviewed the TPWD annotated county list of rare, threatened and endangered species known to potentially occur within Austin County, Texas (Appendix). The review identified 77 species as potentially occurring within the County. Table 2 in Section 3.2 presents each of these species along with their general habitat requirement and anticipated project impacts.

## 2.2 Rare, Threatened and Endangered Species Surveys

The environmental resource surveys consisted of the identification of all biological resources (state listed threatened and endangered species occurrences, and potentially suitable habitat). All environmental resources identified within the survey area was delineated by surveyors. Photographs of the resources identified within the survey area are provided in Appendix B.

Faith reviewed the survey area for protected species suitable habitats listed in the TPWD state listed rare, threatened and endangered species list for Austin County. Surveys were conducted at several random points to document habitat characteristics, species observations, and indication of the presence of listed species. Observations were recorded and photographs were taken of the general habitat characteristics.

## 3.0 Field Survey Results

Faith Conducted the field surveys within the survey area as shown in the mapping exhibits provided in appendix A.

### 3.1 Vegetation

On the Project site, vegetation included: Bermuda grass( *Cynodon dactylon*), Henbit (*Lamium amplexicaule*), Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leucotricha*).

### 3.2 State List T&E Species

The TPWD list of rare threatened and endangered species for Austin County identified (30) state listed species that could potentially occur within the survey area. Table 2 below presents these species, their associated habitats and anticipated project impacts. The TPWD list of rare threatened, and endangered species for Austin County is provided in Appendix E.

**Table 2: State Listed Rare, Threatened and Endangered Species for Austin County**

Name	State Status	Habitat Requirements	Anticipated Project Impacts
Tiger Salamander <i>Ambystoma tigrinum</i>	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
Wood Frog <i>Lithobates houstonensis</i>	Endangered	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
Green Crawfish Frog <i>Acris areolatus areolatus</i>	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
Wood Frog <i>Acris streckeri</i>	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated

House's Toad <i>Bufo woohousii</i>	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
Wetland's greater marsh chicken <i>Centrocercus cupido attwateri</i>	Endangered	This species requires bunch grasses and small shrubbery and is found along the coastal plains. No suitable habitat is present within the area	No Impacts Anticipated
White-crowned Sparrow <i>Spizella leucocephalus</i>	Rare	This species requires rivers or large lakes with tall trees nearby for nesting. No suitable habitat is present within the area	No Impacts Anticipated
White-throated Tanager <i>Tanagra riparia</i>	Rare	This species requires access to a body of water and usually nests in large colonies on cliffs. No suitable habitat is present within the area	No Impacts Anticipated
White-tailed Tanager <i>Tanagra jamaicensis</i>	Threatened	This species requires access to a body of water or wetlands. No suitable habitat is present within the area	No Impacts Anticipated
White-eyed Blackbird <i>Cyanocitta cyanocephalus</i>	Rare	This species could potentially utilize the pasture during winter migration. No indication of the species was present.	No Impacts Anticipated
White-necked Stilt <i>Himantopus occidentalis</i>	Rare	This bird is coastal and found near shorelines. No suitable habitat is present within the area	No Impacts Anticipated
White-rumped Longspur <i>Calciperes ornatus</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
White-eyed Vireo <i>Vireo quicula</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
White-bellied Nighthawk <i>Cyrtodolus minor</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
White-winged Tern <i>Sterna pipixan</i>	Rare	This species requires coastlines. No suitable habitat is present within the area	No Impacts Anticipated

W's Sparrow <i>tyx henslowii</i>	Rare	This species requires bare ground. No suitable habitat is present within the area	No Impacts Anticipated
Least tern <i>a antillarum athatlassos</i>	Endangered	This species requires coastline or rivers. No suitable habitat is present within the area	No Impacts Anticipated
Wren <i>a antillarum</i>	Rare	This species requires coastlines or rivers. No suitable habitat is present within the area	No Impacts Anticipated
Red-head Shrike <i>udovicianus</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
Duck <i>ulvigual</i>	Rare	This species requires coastline or rivers. No suitable habitat is present within the area	No Impacts Anticipated
W. Bobwhite <i>virginianus</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated

Species Name	State Status	Habitat Requirements	Anticipated Project Impact
Plover <i>rius melodus</i>	Threatened	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
Red knot <i>rufa</i>	Threatened	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
Wing <i>alba</i>	Rare	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
W. pipit <i>spragueii</i>	Rare	This species could potentially utilize the pasture during migration. No indication of the species was present.	No Impacts Anticipated
W. tailed kite <i>es forficatus</i>	Threatened	This species could potentially utilize the pasture during migration. No indication of the species was present.	No Impacts Anticipated
W. Burrowing Owl <i>cunicularia</i>	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
W. faced ibis <i>s chihi</i>	Threatened	This species requires low lying wetlands near the coast.	No Impacts Anticipated
W. tailed hawk	Threatened	This species requires mixed prairie. No	No Impacts Anticipated

<i>albicaudatus</i>		indication of the species was present.	
King Crane <i>americana</i>	Endangered	This species requires ponds or ephemeral wetlands. No suitable habitat is present within the area	No Impacts Anticipated
<i>semipalmata</i>	Rare	This species requires coastlines, wetlands or rivers. No suitable habitat is present within the area	No Impacts Anticipated
s Warbler <i>pusilla</i>	Rare	This species requires riparian areas. No suitable habitat is present within the area	No Impacts Anticipated
ork <i>americana</i>	Threatened	This species requires wetlands or flooded prairies. No suitable habitat is present within the area	No Impacts Anticipated
Rail <i>novaboracensis</i>	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated
Billed Cuckoo <i>americanus</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ot shiner <i>atrocaudalis</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ppi silvery minnow <i>nuchalis</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
hub <i>storeriana</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
nd Shiner <i>shumardi</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Sucker <i>melanops</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n Bumblebee <i>pensylvanicus</i>	Rare	Habitat description unavailable	Unable to anticipate potential impact
ry Monarch Butterfly <i>plexippus plexippus</i>	Rare	Habitat description unavailable	Unable to anticipate potential impact
Accepted common name <i>coushatta</i>	Rare	Habitat description unavailable	Unable to anticipate potential impact
e-tailed Bat <i>macrotis</i>	Rare	This species requires canyons for roosting. No suitable habitat is present within the area	No Impacts Anticipated
Spotted Skunk <i>putorius</i>	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated

bat <i>s cinereus</i>	Rare	This species may utilize the adjacent brush and trees. No indication of the species was present.	No Impacts Anticipated
n Lion <i>oncolor</i>	Rare	This species may utilize the adjacent brush. No indication of the species was present.	No Impacts Anticipated
Spotted Skunk <i>le interrupta</i>	Rare	This species may utilize the pasture and adjacent brush. No indication of the species was present.	No Impacts Anticipated
le Bat <i>s seminolus</i>	Rare	This species requires pine trees. No suitable habitat is present within the area	No Impacts Anticipated
ed Bat <i>otis subflavus</i>	Rare	This species requires caves. No suitable habitat is present within the area	No Impacts Anticipated
Heelsplitter <i>us streckersoni</i>	Threatened	This species requires a body of water.No suitable habitat is present within the area	No Impacts Anticipated
<i>ma parvum</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
af <i>al quaudrula</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ack <i>ias pustulosa</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
p <i>ia verrucosa</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
o Peralymussel <i>ias tampicoensis</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
l Pondhorn <i>rus declivis</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
awsfoot <i>a macrodon</i>	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n Alligator <i>r mississippiensis</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n garter snake <i>ophis sirtalis</i>	Rare	This species must be near a body of water. No suitable habitat is present within the area	No Impacts Anticipated
box turtle <i>ne carolina</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Skink <i>on septentrionalis</i>	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated

glass lizard <i>Sceloporus attenuatus</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
softshell <i>Apalone mutica</i>	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
horned lizard <i>Phrynosoma cornutum</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
map turtle <i>Pseudemys versa</i>	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Eastern Box Turtle <i>Terrapene ornata</i>	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Eastern Chicken Turtle <i>Deirochelys reticularia miaria</i>	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Leaf Evening Primrose <i>Oenothera cordata</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Brook's sedge <i>Carex grayoides</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Red Indigo Bush <i>Amorpha paniculata</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Meadow-rue <i>Rubrum texanum</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Blackroot <i>Thalictrum texana</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Peppermint <i>Mentha ciliatus</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Gray Sneymeria <i>Sneymeria texana</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Sunnybell <i>Polirion wrightii</i>	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Black Sneymeria <i>Sneymeria texana</i>	Threatened	No suitable habitat is present within the area.	No Impacts Anticipated

### 3.3 Historical Land Use and Modifications

This site has historically been used as cattle pasture and hay production, as seen in aerial imagery.

## 4.0 Conclusion

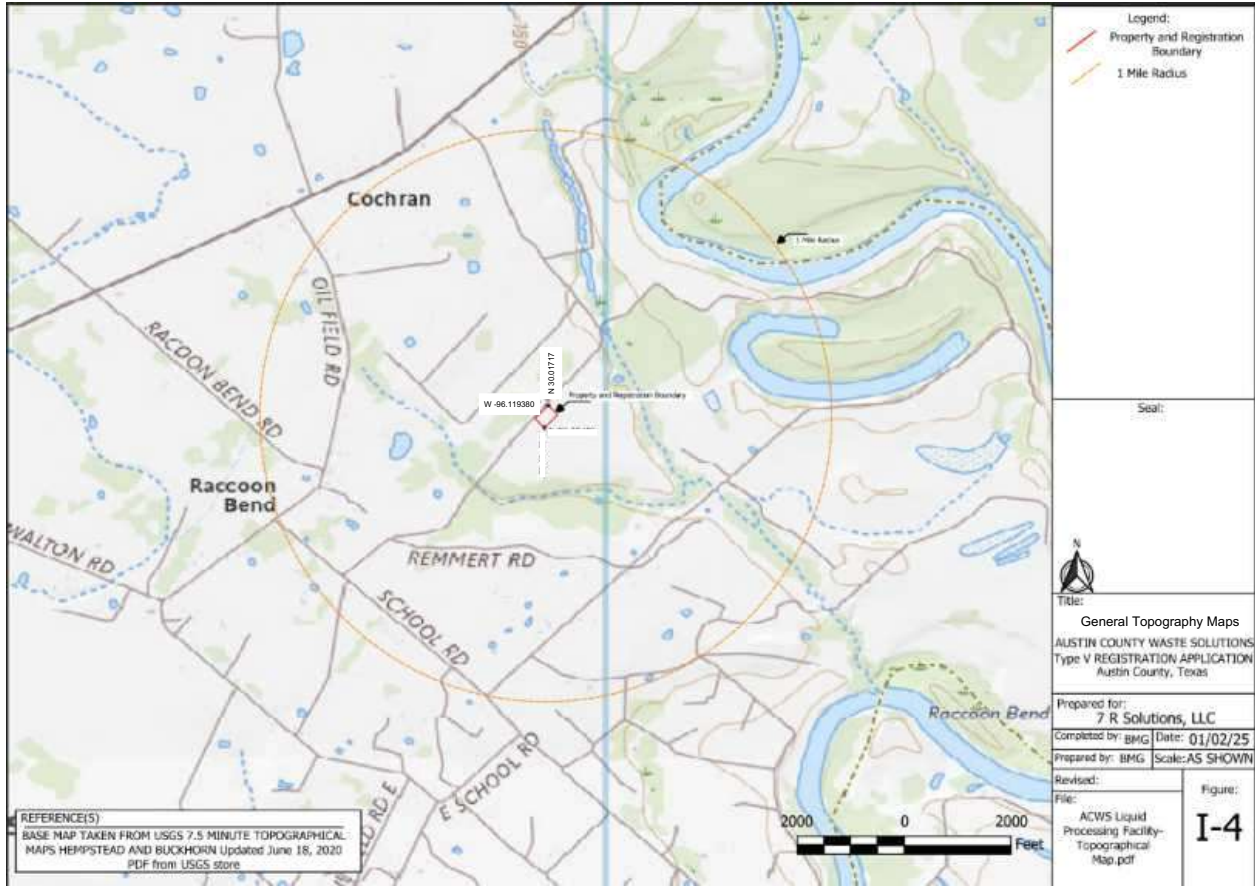
Faith's evaluation of TPWD's state listed rare, threatened and endangered species identified a total of 77 species listed for Austin County. She determined that based off the current land use, suitable habitat is present for 17 of the state listed species within the Survey Area. No suitable habitat was identified within 1-mile of the Project. However, no suitable habitat is present within the Survey Area for the 56 species. Based on the disturbance of the Survey Area, significant impacts on state listed Rare, threatened, and endangered species from the project are not anticipated.

Faith's conclusion reflects her professional opinion based on conditions present at the time of evaluation, discrepancies may arise between current and future evaluation of wetlands at the project due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made.

# Appendices

## Appendix A - Project Maps





## Appendix B - Photolog



**WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region**

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025  
 Applicant/Owner: Blake Giese State: TX Sampling Point: \_\_\_\_\_  
 Investigator(s): Faith Chase Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8  
 Subregion (LRR or MLRA): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: KeD NWI classification: \_\_\_\_\_

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: <b>Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.</b>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1)      ___ Aquatic Fauna (B13) ___ High Water Table (A2)      ___ Marl Deposits (B15) <b>(LRR U)</b> ___ Saturation (A3)      ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1)      ___ Oxidized Rhizospheres along Living Roots (C3) ___ Sediment Deposits (B2)      ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3)      ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4)      ___ Thin Muck Surface (C7) ___ Iron Deposits (B5)      ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ FAC-Neutral Test (D5) ___ Sphagnum moss (D8) <b>(LRR T, U)</b>
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION (Five Strata) – Use scientific names of plants.**

Sampling Point: \_\_\_\_\_

<u>Tree Stratum</u> (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
<u>Sapling Stratum</u> (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Prevalence Index worksheet:</b>
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>
4. _____	_____	_____	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	_____	_____	_____	FACU species <u>45</u> x 4 = <u>180</u>
6. _____	_____	_____	_____	UPL species <u>55</u> x 5 = <u>275</u>
0 = Total Cover				Column Totals: <u>100</u> (A) <u>455</u> (B)
50% of total cover: _____ 20% of total cover: _____				Prevalence Index = B/A = <u>4.55</u>
<u>Shrub Stratum</u> (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b>
1. _____	_____	_____	_____	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____	<input type="checkbox"/> 2 - Dominance Test is >50%
3. _____	_____	_____	_____	<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	_____	_____	_____	
0 = Total Cover				<b>Definitions of Five Vegetation Strata:</b>
50% of total cover: _____ 20% of total cover: _____				<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
<u>Herb Stratum</u> (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Sapling</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. <u>Lamium amplexicaule</u>	20	No	<input type="checkbox"/> UPL <input type="checkbox"/>	<b>Shrub</b> – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
2. <u>Cyodon dactylon (Dead Matter)</u>	40	Yes	<input type="checkbox"/> FACU <input type="checkbox"/>	<b>Herb</b> – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. <u>Nassella leucotricha</u>	25	Yes	<input type="checkbox"/> UPL <input type="checkbox"/>	<b>Woody vine</b> – All woody vines, regardless of height.
4. <u>Vicia villosa</u>	5	No	<input type="checkbox"/> UPL <input type="checkbox"/>	
5. <u>Stellaria media</u>	5	No	<input type="checkbox"/> FACU <input type="checkbox"/>	
6. <u>Torilis arvensis</u>	5	No	<input type="checkbox"/> UPL <input type="checkbox"/>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100 = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
<u>Woody Vine Stratum</u> (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b>
1. _____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0 = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
Remarks: (If observed, list morphological adaptations below).				

**SOIL**

Sampling Point: \_\_\_\_\_

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**      **Indicators for Problematic Hydric Soils<sup>3</sup>:**

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>___ Histosol (A1)</li> <li>___ Histic Epipedon (A2)</li> <li>___ Black Histic (A3)</li> <li>___ Hydrogen Sulfide (A4)</li> <li>___ Stratified Layers (A5)</li> <li>___ Organic Bodies (A6) (LRR P, T, U)</li> <li>___ 5 cm Mucky Mineral (A7) (LRR P, T, U)</li> <li>___ Muck Presence (A8) (LRR U)</li> <li>___ 1 cm Muck (A9) (LRR P, T)</li> <li>___ Depleted Below Dark Surface (A11)</li> <li>___ Thick Dark Surface (A12)</li> <li>___ Coast Prairie Redox (A16) (MLRA 150A)</li> <li>___ Sandy Mucky Mineral (S1) (LRR O, S)</li> <li>___ Sandy Gleyed Matrix (S4)</li> <li>___ Sandy Redox (S5)</li> <li>___ Stripped Matrix (S6)</li> <li>___ Dark Surface (S7) (LRR P, S, T, U)</li> </ul> | <ul style="list-style-type: none"> <li>___ Polyvalue Below Surface (S8) (LRR S, T, U)</li> <li>___ Thin Dark Surface (S9) (LRR S, T, U)</li> <li>___ Loamy Mucky Mineral (F1) (LRR O)</li> <li>___ Loamy Gleyed Matrix (F2)</li> <li>___ Depleted Matrix (F3)</li> <li>___ Redox Dark Surface (F6)</li> <li>___ Depleted Dark Surface (F7)</li> <li>___ Redox Depressions (F8)</li> <li>___ Marl (F10) (LRR U)</li> <li>___ Depleted Ochric (F11) (MLRA 151)</li> <li>___ Iron-Manganese Masses (F12) (LRR O, P, T)</li> <li>___ Umbric Surface (F13) (LRR P, T, U)</li> <li>___ Delta Ochric (F17) (MLRA 151)</li> <li>___ Reduced Vertic (F18) (MLRA 150A, 150B)</li> <li>___ Piedmont Floodplain Soils (F19) (MLRA 149A)</li> <li>___ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</li> </ul> | <ul style="list-style-type: none"> <li>___ 1 cm Muck (A9) (LRR O)</li> <li>___ 2 cm Muck (A10) (LRR S)</li> <li>___ Reduced Vertic (F18) (outside MLRA 150A,B)</li> <li>___ Piedmont Floodplain Soils (F19) (LRR P, S, T)</li> <li>___ Anomalous Bright Loamy Soils (F20) (MLRA 153B)</li> <li>___ Red Parent Material (TF2)</li> <li>___ Very Shallow Dark Surface (TF12)</li> <li>___ Other (Explain in Remarks)</li> </ul> |
|---|--|---|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present?    Yes     No

Remarks:

**AUSTIN COUNTY****AMPHIBIANS****eastern tiger salamander** *Ambystoma tigrinum*

Terrestrial adults generally occur under cover objects or in burrows surrounding a variety of lentic freshwater habitats, such as ponds, lakes, bottomland wetlands, or upland ephemeral pools. The specific terrestrial habitats are also varied and the occurrence of this species seems to be more closely associated with sandy, loamy or other soils which have easy burrowing properties, rather than any particular ecological system type. Requires fishless breeding pools for successful reproduction.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**Houston toad** *Anaxyrus houstonensis*

Terrestrial and aquatic: Primary terrestrial habitat is forests with deep sandy soils. Juveniles and adults are presumed to move through areas of less suitable soils using riparian corridors. Aquatic habitats can include any water body from a tire rut to a large lake.

Federal Status: E	State Status: E	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

**southern crawfish frog** *Lithobates areolatus areolatus*

Terrestrial and aquatic: The terrestrial habitat is primarily grassland and can vary from pasture to intact prairie; it can also include small prairies in the middle of large forested areas. Aquatic habitat is any body of water but preferred habitat is ephemeral wetlands.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4T4	State Rank: S3

**Strecker's chorus frog** *Pseudacris streckeri*

Terrestrial and aquatic: Wooded floodplains and flats, prairies, cultivated fields and marshes. Likes sandy substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**Woodhouse's toad** *Anaxyrus woodhousii*

Terrestrial and aquatic: A wide variety of terrestrial habitats are used by this species, including forests, grasslands, and barrier island sand dunes. Aquatic habitats are equally varied.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

**BIRDS****Attwater's greater prairie-chicken** *Tympanuchus cupido attwateri*

Open prairies of mostly thick grass one to three feet tall; sandhill country with bunch grass, sage, and shinnery oak. From near sea level to 200 feet along coastal plain on upper two-thirds of Texas coast; males form communal display flocks during late winter-early spring; booming grounds important; breeding February-July

Federal Status: E	State Status: E	SGCN: Y
Endemic: N	Global Rank: G4T1	State Rank: S1

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**AUSTIN COUNTY****BIRDS****bald eagle***Haliaeetus leucocephalus*

Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Federal Status:

State Status:

SGCN: N

Endemic: N

Global Rank: G5

State Rank: S3B,S3N

**Bank Swallow***Riparia riparia*

Bank Swallows live in low areas along rivers, streams, ocean coasts, and reservoirs. Their territories usually include vertical cliffs or banks where they nest in colonies of 10 to 2,000 nests. Though in the past Bank Swallows were most commonly found around natural bluffs or eroding streamside banks, they now often nest in human-made sites, such as sand and gravel quarries or road cuts. They forage in open areas and avoid places with tree cover.

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G5

State Rank: S2B,S4N

**black rail***Laterallus jamaicensis*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Salt, brackish, and freshwater marshes, pond borders, wet meadows, and grassy swamps; nests in or along edge of marsh, sometimes on damp ground, but usually on mat of previous years dead grasses; nest usually hidden in marsh grass or at base of Salicornia

Federal Status: T

State Status: T

SGCN: Y

Endemic: N

Global Rank: G3

State Rank: S2

**Brewer's Blackbird***Euphagus cyanocephalus*

Shrubby and bushy areas (especially near water), riparian woodland, aspen parklands, cultivated lands, marshes, and around human habitation; ir migration and winter also in pastures and fields (AOU 1983).

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G5

State Rank: S5

**Brown Pelican***Pelecanus occidentalis*

Largely coastal and near shore areas, where it roosts and nests on islands and spoil banks. Feeds in lagunas and shallow seaward waters.

Federal Status:

State Status:

SGCN: N

Endemic: N

Global Rank: G4

State Rank: S3B

**chestnut-collared longspur***Calcarius ornatus*

Occurs in open shortgrass settings especially in patches with some bare ground. Also occurs in grain sorghum fields and Conservation Reserve Program lands

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G5

State Rank: S3

**Common Grackle***Quiscalus quiscula***DISCLAIMER**

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**AUSTIN COUNTY****BIRDS**

Common Grackles do well in human landscapes, using scattered trees for nesting and open ground for foraging. Typical natural habitats include open woodland, forest edge, grassland, meadows, swamps, marshes, and palmetto hammocks. They are also very common near agricultural fields and feedlots, suburbs, city parks, cemeteries, pine plantations, and hedgerows. Unbroken tracts of forest are the only places where you are unlikely to find Common Grackles.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5B

**Common Nighthawk** *Chordeiles minor*

Common Nighthawks nest in both rural and urban habitats including coastal sand dunes and beaches, logged forest, recently burned forest, woodland clearings, prairies, plains, sagebrush, grasslands, open forests, and rock outcrops. They also nest on flat gravel rooftops, though less often as gravel roofs are being replaced by smooth, rubberized roofs that provide an unsuitable surface.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4B

**Franklin's gull** *Leucophaeus pipixcan*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. This species is only a spring and fall migrant throughout Texas. It does not breed in or near Texas. Winter records are unusual consisting of one or a few individuals at a given site (especially along the Gulf coastline). During migration, these gulls fly during daylight hours but often come down to wetlands, lake shore, or islands to roost for the night.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2N

**Henslow's Sparrow** *Centronyx henslowii*

Wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2S3N,SXB

**interior least tern** *Sternula antillarum athalassos*

Sand beaches, flats, bays, inlets, lagoons, islands. Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

Federal Status:	State Status: E	SGCN: N
Endemic: N	Global Rank: G4T3Q	State Rank: S1B

**Least Tern** *Sternula antillarum*

Sand beaches, flats, bays, inlets, lagoons, islands, river sandbars and flat gravel rooftops in urban areas.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2B

**Loggerhead Shrike** *Lanius ludovicianus***DISCLAIMER**

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**AUSTIN COUNTY****BIRDS**

Loggerhead Shrikes inhabit open country with short vegetation and well-spaced shrubs or low trees, particularly those with spines or thorns. They frequent agricultural fields, pastures, old orchards, riparian areas, desert scrublands, savannas, prairies, golf courses, and cemeteries. Loggerhead Shrikes are often seen along mowed roadsides with access to fence lines and utility poles.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4B

**Mottled Duck** *Anas fulvigula*

Estuaries, ponds, lakes, secondary bays.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4B

**Northern Bobwhite** *Colinus virginianus*

Inhabits a wide variety of vegetation types, particularly early successional stages. Occurs in croplands, grasslands, pastures, fallow fields, grass-brush rangelands, open pinelands, open mixed pine-hardwood forests, and habitat mosaics (Brennan 1999).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S4B

**piping plover** *Charadrius melodus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Beaches, sandflats, and dunes along Gulf Coast beaches and adjacent offshore islands. Also spoil islands in the Intracoastal Waterway. Based on the November 30, 1992 Section 6 Job No. 9.1, Piping Plover and Snowy Plover Winter Habitat Status Survey, algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. Sand flats often appear to be preferred over algal flats when both are available, but large portions of sand flats along the Texas coast are available only during low-very low tides and are often completely unavailable during extreme high tides or strong north winds. Beaches appear to serve as a secondary habitat to the flats associated with the primary bays, lagoons, and inter-island passes. Beaches are rarely used on the southern Texas coast, where bayside habitat is always available, and are abandoned as bayside habitats become available on the central and northern coast. However, beaches are probably a vital habitat along the central and northern coast (i.e. north of Padre Island) during periods of extreme high tides that cover the flats. Optimal site characteristics appear to be large in area, sparsely vegetated, continuously available or in close proximity to secondary habitat, and with limited human disturbance.

Federal Status: T	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2N

**rufa red knot** *Calidris canutus rufa*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore. Bolivar Flats in Galveston County, sandy beaches Mustang Island, few on outer coastal and barrier beaches, tidal mudflats and salt marshes.

Federal Status: T	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4T2	State Rank: S2N

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**AUSTIN COUNTY****BIRDS****Sanderling** *Calidris alba*

Nonbreeding: primarily sandy beaches, less frequently on mud flats and shores of lakes or rivers (AOU 1983) also on exposed reefs (Pratt et al. 1987). Sleeps/loafs on upper beach or on salt pond dike.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

**Snowy Plover** *Charadrius nivosus*

Algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. An optimal site characteristic would be large in size. The size of populations appear to be roughly proportional to the total area of suitable habitat used. Formerly an uncommon breeder in the Panhandle; potential migrant; winter along coast.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3B

**Sprague's pipit** *Anthus spragueii*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat during migration and in winter consists of pastures and weedy fields (AOU 1983), including grasslands with dense herbaceous vegetation or grassy agricultural fields.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3N

**swallow-tailed kite** *Elanoides forficatus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Lowland forested regions, especially swampy areas, ranging into open woodland; marshes, along rivers, lakes, and ponds; nests high in tall tree in clearing or on forest woodland edge, usually in pine, cypress, or various deciduous trees.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2B

**western burrowing owl** *Athene cucularia hypugaea*

Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G4T4	State Rank: S2

**white-faced ibis** *Plegadis chihi*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; currently confined to near-coastal rookeries in so-called hog-wallow prairies. Nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.

Federal Status:	State Status: T	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S4B

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**AUSTIN COUNTY****BIRDS****white-tailed hawk***Buteo albicaudatus*

Near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May

Federal Status:

State Status: T

SGCN: N

Endemic: N

Global Rank: G4G5

State Rank: S4B

**whooping crane***Grus americana*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Small ponds, marshes, and flooded grain fields for both roosting and foraging. Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.

Federal Status: E

State Status: E

SGCN: Y

Endemic: N

Global Rank: G1

State Rank: S1S2N

**Willet***Tringa semipalmata*

Marshes, tidal mudflats, beaches, lake margins, mangroves, tidal channels, river mouths, coastal lagoons, sandy or rocky shores, and, less frequently, open grassland (AOU 1983, Stiles and Skutch 1989).

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G5

State Rank: S5B

**Wilson's Warbler***Cardellina pusilla*

Wilson's warblers key in on forests and scrubby areas along streams to fatten up during migration. During the nonbreeding season they use many types of habitats from lowland thickets near streams to high-elevation cloud forests in Mexico and Central America.

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G5

State Rank: S4

**wood stork***Mycteria americana*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Prefers to nest in large tracts of baldcypress (*Taxodium distichum*) or red mangrove (*Rhizophora mangle*); forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960.

Federal Status:

State Status: T

SGCN: Y

Endemic: N

Global Rank: G4

State Rank: SHB,S3N

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**AUSTIN COUNTY****BIRDS****Yellow Rail** *Coturnicops noveboracensis*

BREEDING: Emergent wetlands, grass or sedge marshes and wet meadows in freshwater situations. Some breeding territories in these wet meadows contain firm footing and only a few remnant pools of water (Berkey 1991). These areas can range from damp to 38 cm (15 inches) of water but the average depth used for nesting is 8 to 15 cm (3 to 6 inches) (Savaloja 1981). NON-BREEDING: Grain fields in winter and when migrating. Winters in both freshwater and brackish marshes, as well as in dense, deep grass. During fall migration, will use many open habitats, from rice paddies to dry hayfields.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3N

**yellow-billed cuckoo** *Coccyzus americanus*

In Texas, the populations of concern are found breeding in riparian areas in the Trans Pecos (know as part of the Western Distinct Population Segment). It is the Western DPS that is on the U.S. ESA threatened list and includes the Texas counties Brewster, Culberson, El Paso, Hudspeth, Jeff Davis, and Presidio. Riparian woodlands below 6,000' in elevation consisting of cottonwoods and willows are prime habitat. This species is a long-distant migrant that summers in Texas, but winters mainly in South America. Breeding birds of the Trans Pecos populations typically arrive on their breeding grounds possibly in late April but the peak arrival time is in May. Threats to preferred habitat include hydrologic changes that don't promote the regeneration of cottonwoods and willows, plus livestock browsing and trampling of sapling trees in sensitive riparian areas.

Federal Status: T	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4S5B

**FISH****blackspot shiner** *Notropis atrocaudalis*

Occurs from the lower Brazos River to the Sabine River drainage; Red River drainage. Small to moderate size tributary streams in runs and pools over all types of substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3

**Mississippi silvery minnow** *Hybognathus nuchalis*

Found in eastern Texas streams, from the Brazos River eastward and northward to the Red River; found in moderate current; silty, muddy, or rocky substrate. In Texas, adults likely to inhabit smaller tributary streams.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G5	State Rank: S4

**silver chub** *Macrhybopsis storeriana*

Red River and Brazos River basins. Mainly restricted to large, often silty rivers. Ranges over gravel to silt substrates but found more commonly over silt or mud bottom.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

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**AUSTIN COUNTY****FISH****silverband shiner** *Notropis shumardi*

In Texas, found from Red River to Lavaca River; Main channel with moderate to swift current velocities and moderate to deep depths; associated with turbid water over silt, sand, and gravel.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

**spotted sucker** *Minytrema melanops*

Found primarily in east Texas streams from the Red to the Brazos river basins. An isolated, disjunct population occurs in the Llano River near Junction downstream to about Mason; this may be an introduced population. Typically in clear creeks with firm substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**INSECTS****American bumblebee** *Bombus pensylvanicus*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G3G4	State Rank: SNR

**migratory monarch butterfly** *Danaus plexippus plexippus*

Habitat description is not available at this time.

Federal Status: C	State Status:	SGCN: Y
Endemic:	Global Rank: G4T3	State Rank: SNR

**No accepted common name** *Sparbarus couchatta*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G1G2	State Rank: SNR

**No accepted common name** *Plauditus texanus*

Larvae are associated with small to medium limestone cobble and macrophytes in shallow riffles of clear, cool, alkaline streams (P. McCafferty, personal communication, December 2003).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2G3	State Rank: S1?

**No accepted common name** *Pseudocentropiloides morihari*

Mayflies distinguished by aquatic larval stage; adult stage generally found in shoreline vegetation

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2G3	State Rank: S2?

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**AUSTIN COUNTY****MAMMALS****big free-tailed bat***Nyctinomops macrotis*

Habitat data sparse but records indicate that species prefers to roost in crevices and cracks in high canyon walls, but will use buildings, as well; reproduction data sparse, gives birth to single offspring late June-early July; females gather in nursery colonies; winter habits undetermined, but may hibernate in the Trans-Pecos; opportunistic insectivore

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**eastern spotted skunk***Spilogale putorius*

Generalist; open fields prairies, croplands, fence rows, farmyards, forest edges & woodlands. Prefer wooded, brushy areas & tallgrass prairies. S.p. ssp. interrupta found in wooded areas and tallgrass prairies, preferring rocky canyons and outcrops when such sites are available.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S1S3

**hoary bat***Lasiurus cinereus*

Hoary bats are highly migratory, high-flying bats that have been noted throughout the state. Females are known to migrate to Mexico in the winter, males tend to remain further north and may stay in Texas year-round. Commonly associated with forests (foliage roosting species) but are found in unforested parts of the state and lowland deserts. Tend to be captured over water and large, open flyways.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3

**mountain lion***Puma concolor*

Generalist; found in a wide range of habitats statewide. Found most frequently in rugged mountains & riparian zones.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2S3

**plains spotted skunk***Spilogale interrupta*

Generalist; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S1S3

**Seminole bat***Lasiurus seminolus*

Pine-oak and long-leaf pine in east Texas. Habitats include pine, mixed pine-hardwood, and hardwood forests of uplands and bottomlands, particularly pine-dominated forests, including mature pine and pine-hardwood corridors in managed pine forest landscapes (Menzel et al. 1998, 1999, 2000; Carter et al. 2004; Marks and Marks 2006; Perry and Thill 2007; Perry et al. 2007; Hein et al. 2008; Ammerman et al. 2012).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**DISCLAIMER**

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**AUSTIN COUNTY****MAMMALS****tricolored bat** *Perimyotis subflavus*

Forest, woodland and riparian areas are important. Caves are very important to this species.

Federal Status: PE	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S2

**MOLLUSKS****Brazos heelsplitter** *Potamilus streckeri*

Reported from streams, but not far into the headwaters, to large rivers, and some reservoirs. In riverine systems occurs most often in nearshore habitats such as banks and backwater pools but occasionally in mainchannel habitats such as riffles. Typically found in standing to slow-flowing water in soft substrates consisting of silt, mud or sand but occasionally in moderate flows with gravel and cobble substrates (Randklev et al. 2014b,c; Tsakiris and Randklev 2016b; Smith et al. 2019) [Mussels of Texas 2020]

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: GNR	State Rank: SNR

**Lilliput** *Toxolasma parvum*

Reported from small streams, where it may penetrate into the headwaters, to large rivers, oxbows, sloughs, lakes, ponds, canals, borrow pits, and reservoirs. Primarily occurs in still to slow currents in mud and sand substrates (Coker et al. 1921; Read 1954; Neck and Metcalf 1988; Williams et al. 2008; Watters et al. 2009).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**Mapleleaf** *Quadrula quadrula*

Reported from streams to rivers, lakes, and reservoirs. In riverine habitats, it may be found in main-channel habitats such as riffles or runs in sand, gravel, and cobble substrates with moderate to swift currents. May also be found in nearshore habitats such as banks and backwaters to include pools in sand or mud substrates with little to no flow. (Williams et al. 2008; Howells 2016; Haag and Cicerello 2016).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**Pimpleback** *Cyclonaias pustulosa*

Occurs in small streams to large rivers in habitats including riffles and runs with flowing water, also found in nearshore habitats such as banks and backwaters or pools. Can occur in reservoirs but varies based by population. Is often found in substrates comprising of sand, gravel, and cobble but also mud and silt (Howells et al. 1996; Williams et al. 2008; Watters et al. 2009).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: SNR

**Pistolgrip** *Tritogonia verrucosa*

Reported from streams to rivers, lakes, and reservoirs, but considered less tolerant of impoundment (Haag and Cicerello 2016). Can occur in a variety of habitat types but most often found in main channel habitats such as riffles and runs with moderate current and sand, gravel, or cobble substrates (Howells et al. 1996; Williams et al. 2008).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3S4

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**AUSTIN COUNTY****MOLLUSKS****Tampico Pearlymussel** *Cyrtonaias tampicoensis*

Reported from streams to rivers, reservoirs, and canals. In riverine habitats often found in nearshore habitats such as banks and backwaters, to include pools and oxbows, in mud or sand or among cobble and boulders with still to moderate currents (Howells et al. 1996).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

**Tapered Pondhorn** *Unio merus declivis*

It likely occurs in streams, rivers, oxbows, marshes, swamps, lakes, canals, ponds, and reservoirs in still to moderate currents in mud, sand, or gravel substrates. Also probably occurs in woody debris such as logjams and exposed roots of riparian trees (Williams et al. 2008).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: SNR

**Texas fawnsfoot** *Truncilla macrodon*

Occurs in large rivers but may also be found in medium-sized streams. Is found in protected near shore areas such as banks and backwaters but also riffles and point bar habitats with low to moderate water velocities. Typically occurs in substrates of mud, sandy mud, gravel and cobble. Considered intolerant of reservoirs (Randklev et al. 2010; Howells 2010o; Randklev et al. 2014b,c; Randklev et al. 2017a,b). [Mussels of Texas 2019]

Federal Status: T	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S2

**REPTILES****American alligator** *Alligator mississippiensis*

Aquatic: Coastal marshes; inland natural rivers, swamps and marshes; manmade impoundments.

Federal Status: SAT	State Status:	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S4

**common garter snake** *Thamnophis sirtalis*

Terrestrial and aquatic: Habitats used include the grasslands and modified open areas in the vicinity of aquatic features, such as ponds, streams or marshes. Damp soils and debris for cover are thought to be critical.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2

**eastern box turtle** *Terrapene carolina*

Terrestrial: Eastern box turtles inhabit forests, fields, forest-brush, and forest-field ecotones. In some areas they move seasonally from fields in spring to forest in summer. They commonly enters pools of shallow water in summer. For shelter, they burrow into loose soil, debris, mud, old stump holes, or under leaf litter. They can successfully hibernate in sites that may experience subfreezing temperatures.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

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**AUSTIN COUNTY****REPTILES****prairie skink***Plestiodon septentrionalis*

The prairie skink can occur in any native grassland habitat across the Rolling Plains, Blackland Prairie, Post Oak Savanna and Pineywoods ecoregions.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2

**slender glass lizard***Ophisaurus attenuatus*

Terrestrial: Habitats include open grassland, prairie, woodland edge, open woodland, oak savannas, longleaf pine flatwoods, scrubby areas, fallow fields, and areas near streams and ponds, often in habitats with sandy soil.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**smooth softshell***Apalone mutica*

Aquatic: Large rivers and streams; in some areas also found in lakes and impoundments (Ernst and Barbour 1972). Usually in water with sandy or mud bottom and few aquatic plants. Often basks on sand bars and mudflats at edge of water. Eggs are laid in nests dug in high open sandbars and banks close to water, usually within 90 m of water (Fitch and Plummer 1975).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

**Texas horned lizard***Phrynosoma cornutum*

Terrestrial: Open habitats with sparse vegetation, including grass, prairie, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive. Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3

**Texas map turtle***Graptemys versa*

Aquatic: Primarily a river turtle but can also be found in reservoirs. Can be found in deep and shallow water with sufficient basking sites (emergent rocks and woody debris).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G4	State Rank: SU

**western box turtle***Terrapene ornata*

Terrestrial: Ornate or western box turtles inhabit prairie grassland, pasture, fields, sandhills, and open woodland. They are essentially terrestrial but sometimes enter slow, shallow streams and creek pools. For shelter, they burrow into soil (e.g., under plants such as yucca) (Converse et al. 2002) or enter burrows made by other species.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3

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**AUSTIN COUNTY****REPTILES****western chicken turtle** *Deirochelys reticularia miaria*

Aquatic and terrestrial: This species uses aquatic habitats in the late winter, spring and early summer and then terrestrial habitats the remainder of the year. Preferred aquatic habitats seem to be highly vegetated shallow wetlands with gentle slopes. Specific terrestrial habitats are not well known.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5T5	State Rank: S2S3

**PLANTS****heartleaf evening-primrose** *Oenothera cordata*

Occurs in post oak woodlands on sandy soils on the coastal plain (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

**Mohlenbrock's sedge** *Cyperus grayoides*

Deep sand and sandy loam in dry, almost barren openings in upland longleaf pine savannas, mixed pine-oak forests, and post oak woodlands; Occurs primarily in deep, periodically disturbed sandy soils in open areas maintained by factors such as wind, erosion, or fire. This species does not occur in shaded areas or in areas of high competition with other herbaceous species. Habitats include remnant sand prairies, sandy fields, sand blow outs, sandhill woodlands, pine barrens, and open barrens in which the slope is sufficient to produce sand erosion. May also occur in areas where the soils have been disturbed by logging or road construction; Perennial

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3S4

**panicked indigobush** *Amorpha paniculata*

A stout shrub, 3 m (9 ft) tall that grows in acid seep forests, peat bogs, wet floodplain forests, and seasonal wetlands on the edge of Saline Prairies in East Texas. It is distinguished from other Amorpha species by its fuzzy leaflets with prominent raised veins underneath, and the flower panicles, which are 8 to 16 inches long and slender, held above the foliage. Perennial; Flowering May-August.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

**Texas meadow-rue** *Thalictrum texanum*

Mostly found in woodlands and woodland margins on soils with a surface layer of sandy loam, but it also occurs on prairie pimple mounds; both on uplands and creek terraces, but perhaps most common on claypan savannas; soils are very moist during its active growing season; flowering/fruiting (January-)February-May, withering by midsummer, foliage reappears in late fall(November) and may persist through the winter

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2Q	State Rank: S2

**Texas pinkroot** *Spigelia texana*

Woodlands on loamy soils; Perennial; Flowering March-Nov; Fruiting April-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

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**AUSTIN COUNTY****PLANTS****Texas sandmint***Rhododon ciliatus*

Open sandy areas in the Post Oak Belt of east-central Texas; Annual; Flowering April-Aug; Fruiting May-Aug

Federal Status:

State Status:

SGCN: Y

Endemic: Y

Global Rank: G3

State Rank: S3

**Texas seymeria***Seymeria texana*

Found primarily in grassy openings in juniper-oak woodlands on dry rocky slopes but sometimes on rock outcrops in shaded canyons; Annual; Flowering May-Nov; Fruiting July-Nov

Federal Status:

State Status:

SGCN: Y

Endemic: Y

Global Rank: G3

State Rank: S3

**Texas sunnybell***Schoenolirion wrightii*

Rocky barrens in the Post Oak region near College Station, with a few disjunct populations on the Catahoula Formation of southeast Texas; Perennial; Flowering March-April; Fruiting March

Federal Status:

State Status:

SGCN: Y

Endemic: N

Global Rank: G3

State Rank: S3

**Texas tauschia***Tauschia texana*

Occurs in loamy soils in deciduous forests or woodlands on river and stream terraces; Perennial; Flowering/Fruiting Feb-April

Federal Status:

State Status:

SGCN: Y

Endemic: Y

Global Rank: G3

State Rank: S3

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**Type V Liquid Processing Registration Application, Part II**  
**Austin County Waste Solutions**

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**PART II-ATTACHMENT IIE- 4**

**U.S. Fish and Wildlife Services  
Correspondence**

**Electronically Submitted:  
Response attached**



Blake Giese [REDACTED]

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**7R Solutions, LLC Austin County Waste Solutions Att: Blake Giese**

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[REDACTED] Tue, Jun 3, 2025 at 11:03 AM

On May 27th, 2025, the U.S. Fish and Wildlife Service (Service) received a letter dated Jan 22, 2025 (attached) with a species assessment report. It appears to be directed to the State of Texas - Texas Parks and Wildlife Dept. For Federal review, the Service recommends you, in conjunction with the TCEQ or lead federal agency, review the project through the Service's IPaC website <https://ipac.ecosphere.fws.gov/> and follow the guidance provided to determine if Federally listed species and/or suitable habitat is present in the project area. The lead federal agency will be able to work with you to make a determination for listed species that may occur in the project area. Once you have entered your project into IPaC, you can reach out with additional questions. <https://ipac.ecosphere.fws.gov/>

Thank you,

**Moni Belton**

Fish and Wildlife Biologist

U.S. Fish and Wildlife Service

17629 El Camino Real, #211

Houston TX 77058

281-826-2105 office TEAMS direct

346-815-0872 office cell

281-286-8282 Texas Coastal ESFO Houston office



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## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Texas Coastal & Central Plains Esfo  
17629 El Camino Real, Suite 211  
Houston, TX 77058-3051  
Phone: (281) 286-8282 Fax: (281) 488-5882

In Reply Refer To:  
Project Code: 2025-0125328  
Project Name: 7 R SOLUTIONS, LLC

07/22/2025 20:14:29 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

### To Whom It May Concern:

The U.S. Fish and Wildlife Service (Service) field offices in Clear Lake, Corpus Christi, Fort Worth, and Alamo, Texas, have combined administratively to form the Texas Coastal Ecological Services Field Office. All project related correspondence should be sent to the field office address listed below responsible for the county in which your project occurs:

Project Leader; U.S. Fish and Wildlife Service; 17629 El Camino Real Ste. 211; Houston, Texas 77058

*Angelina, Austin, Brazoria, Brazos, Chambers, Colorado, Fayette, Fort Bend, Freestone, Galveston, Grimes, Hardin, Harris, Houston, Jasper, Jefferson, Leon, Liberty, Limestone, Madison, Matagorda, Montgomery, Newton, Orange, Polk, Robertson, Sabine, San Augustine, San Jacinto, Trinity, Tyler, Walker, Waller, and Wharton.*

Assistant Field Supervisor, U.S. Fish and Wildlife Service; 4444 Corona Drive, Ste 215; Corpus Christi, Texas 78411

*Aransas, Atascosa, Bee, Brooks, Calhoun, De Witt, Dimmit, Duval, Frio, Goliad, Gonzales, Jackson, Jim Hogg, Jim Wells, Karnes, Kenedy, Kleberg, La Salle, Lavaca, Live Oak, Maverick, McMullen, Nueces, Refugio, San Patricio, Victoria, and Wilson.*

U.S. Fish and Wildlife Service; Santa Ana National Wildlife Refuge; Attn: Texas Ecological Services Sub-Office; 3325 Green Jay Road, Alamo, Texas 78516

*Cameron, Hidalgo, Starr, Webb, Willacy, and Zapata.*

For questions or coordination for projects occurring in counties not listed above, please contact [arles@fws.gov](mailto:arles@fws.gov).

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your

proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: <http://www.fws.gov/media/endangered-species-consultation-handbook>.

Non-Federal entities may consult under Sections 9 and 10 of the Act. Section 9 and Federal regulations prohibit the take of endangered and threatened species, respectively, without special exemption. "Take" is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. "Harm" is further defined (50 CFR § 17.3) to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. "Harass" is defined (50 CFR § 17.3) as intentional or negligent actions that create the likelihood of

injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding or sheltering. Should the proposed project have the potential to take listed species, the Service recommends that the applicant develop a Habitat Conservation Plan and obtain a section 10(a)(1)(B) permit. The Habitat Conservation Planning Handbook is available at: <https://www.fws.gov/library/collections/habitat-conservation-planning-handbook>.

#### Migratory Birds:

In addition to responsibilities to protect threatened and endangered species under the Act, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts visit: <https://www.fws.gov/program/migratory-birds>.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable National Environmental Policy Act (NEPA) documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

- Official Species List

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Texas Coastal & Central Plains Esfo**

17629 El Camino Real, Suite 211

Houston, TX 77058-3051

(281) 286-8282

## PROJECT SUMMARY

Project Code: 2025-0125328

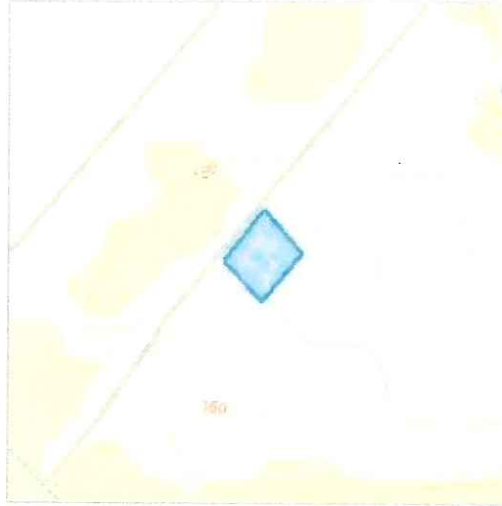
Project Name: 7 R SOLUTIONS, LLC

Project Type: Water Quality Standard Review

Project Description: MSW TYPE V LIQUID PROCESSING REGISTRATION

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@30.01664555,-96.11939511777051,14z>



Counties: Austin County, Texas

## ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

**MAMMALS**

## NAME

## STATUS

Tricolored Bat *Perimyotis subflavus*

No critical habitat has been designated for this species.  
Species profile: <https://ecos.fws.gov/ecp/species/10515>

Proposed  
Endangered

**BIRDS**

## NAME

## STATUS

Piping Plover *Charadrius melodus*

Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.  
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.  
This species only needs to be considered under the following conditions:  

- Wind related projects within migratory route.

Species profile: <https://ecos.fws.gov/ecp/species/6039>

Threatened

Rufa Red Knot *Calidris canutus rufa*

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.  
This species only needs to be considered under the following conditions:  

- Wind related projects within migratory route.

Species profile: <https://ecos.fws.gov/ecp/species/1864>

Threatened

Whooping Crane *Grus americana*

Population: Wherever found, except where listed as an experimental population  
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.  
Species profile: <https://ecos.fws.gov/ecp/species/758>

Endangered

**AMPHIBIANS**

## NAME

## STATUS

Houston Toad *Bufo houstonensis*

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.  
Species profile: <https://ecos.fws.gov/ecp/species/2206>

Endangered

**CLAMS**

## NAME

## STATUS

Texas Fawnsfoot *Truncilla macrodon*

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.  
Species profile: <https://ecos.fws.gov/ecp/species/8965>

Threatened

**INSECTS**

## NAME

## STATUS

Monarch Butterfly *Danaus plexippus*

Proposed  
Threatened

NAME

STATUS

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: <https://ecos.fws.gov/ecp/species/9743>

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

## **IPAC USER CONTACT INFORMATION**

Agency: Texas Commission on Environmental Quality  
Name: Blake Giese  
Address: 3655 Woodley LN  
City: Bellville  
State: TX  
Zip: 77418  
Email: austincountywastesolutions@gmail.com  
Phone: 2817250121

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Texas Commission on Environmental Quality  
Name: Blake Giese  
Email: austincountywastesolutions@gmail.com  
Phone: 2817250121

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIF**

#### **Houston Galveston Area Council of Governments (HGACG) Correspondence**

**- Email Sent  
No Response**

**See ATTACHMENT IIA-2 for Report**

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

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### **PART II-ATTACHMENT IIG**

### **TD PES Stormwater General Permit**



**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**  
**Texas Pollutant Discharge Elimination System**  
**Stormwater Multi-Sector General Permit**

The No Exposure Certification (NEC) for the facility listed below was received on February 15, 2025. The intent to obtain a conditional exclusion from permit requirements by certifying that there is no exposure of industrial materials or activities to precipitation or runoff, as allowed in the Texas Pollutant Discharge Elimination System (TPDES) stormwater Multi-Sector General Permit (MSGP) TXR050000, is acknowledged. Your facility's unique TPDES MSGP stormwater authorization number is:

**TXRNECL44**

Coverage Effective: February 15, 2025  
Sector: L,T Primary SIC code: 4952

TCEQ's stormwater MSGP requires that facilities authorized under this general permit based on having no exposure of industrial activities to ensure that industrial activities and materials are isolated from stormwater and stormwater runoff by storm resistant shelters. As a facility authorized to discharge under the stormwater MSGP, all applicable terms and conditions related to this conditional exclusion must be complied with to maintain coverage and avoid possible penalties. If this facility changes operating or management practices so as to result in exposure of industrial activities to stormwater, then the operator must obtain permit coverage to discharge storm water before implementing the changes that result in exposure of industrial activities to stormwater runoff.

**Facility/Site Information:**

RN112143748  
Austin County Waste Solutions  
3655 Woodley Ln  
Bellville, TX 77418  
Austin County

**Operator:**

CN606353829  
7 R Solutions LLC  
3655 Woodley Ln  
Bellville, TX 77418

**The MSGP and all authorizations expire on August 14, 2026, unless otherwise amended.** If you have any questions related to your application, you may contact the Stormwater Processing Center by email at [SWPERMIT@tceq.texas.gov](mailto:SWPERMIT@tceq.texas.gov) or by telephone at (512) 239-3700. For technical issues, you may contact the stormwater technical staff by email at [SWG@tceq.texas.gov](mailto:SWG@tceq.texas.gov) or by telephone at (512) 239-4671. Also, you may obtain information on the TCEQ web site at <https://www.tceq.texas.gov/goto/wq-dpa>.

A handwritten signature in black ink, appearing to read "K. Keel".

Issued Date: February 15, 2025

Part II Report - 144

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FOR THE COMMISSION

# Type V Liquid Processing Registration Application, Part II

## Austin County Waste Solutions

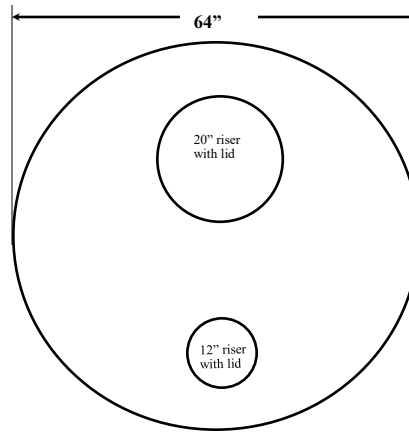
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### **PART II-ATTACHMENT IHH**

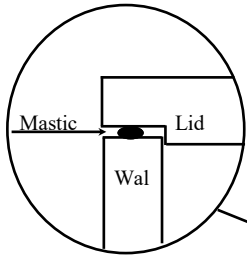
### **Septic Pump Tank with Float Control Specifications**

**500 – Gallon  
Pre-Treatment Tank**

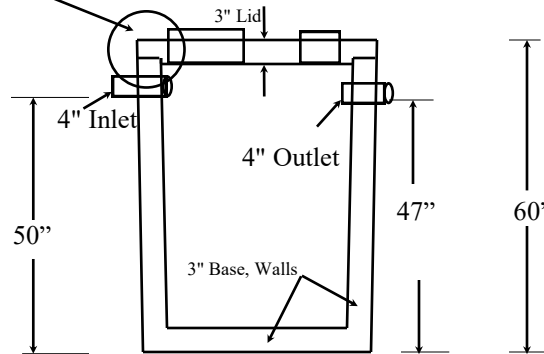
**TOP VIEW**



**Enlarged Detail**



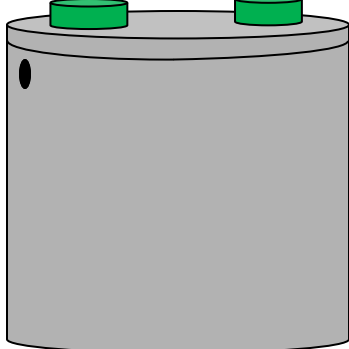
**SIDE VIEW**



**Property of: Del Zotto Products, Inc.,**  
5701 SH 135 Gladewater, TX 75647 (903) 981-0400  
**Do Not duplicate, Do Not reproduce without written permission.**

**20" Tuf-Tite Riser  
w/secondary protection**

**12" Tuf-Tite Riser  
w/secondary protection**



Reinforcing Steel-  
Floor & Lid: #4 @12" OCEW  
Walls: 6"x6" 10g WWF  
Grade 60, ASTM A-1064, ASTM A-615  
Class H Concrete, 5000 PSI @ 28 Days  
Tank is designed & constructed in accordance  
to ASTM C1227

This is proprietary information, and remains the property of Del Zotto Products, of Texas, Inc. These Drawings and Dimensions have been drawn especially for:

**Del Zotto Products of Texas, Inc.**  
5701 State Hwy 135  
Gladewater, TX 75647

*The Company/Persons named above shall be given written permission upon purchase of the Concrete Form to duplicate and promote sales literature on this tank by:*  
**Del Zotto Products of Texas, Inc.**

**500– Gallon Pre-Treatment Tank**  
Drawing : 500DZ  
Drawing by: EC

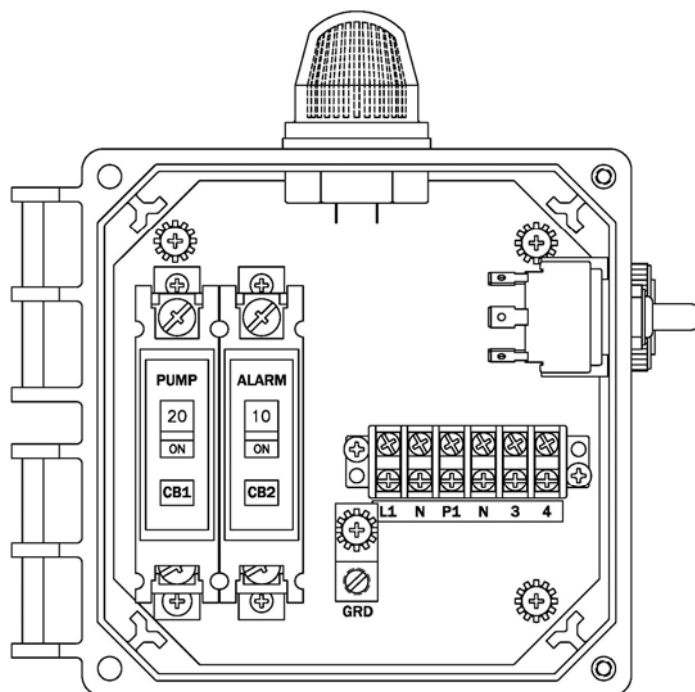


# CONTROL PANEL

## “HWAP” Model Aerobic Control Panel

### Features & Benefits

- Circuit Breakers for Pump, & Alarm Circuits
- Easy to Access Terminal Block
- Externally Mounted Run/Mute/Test Switch w/UV resistant sealing boot
- Externally Mounted Audible Alarm
- Rugged UV resistant Externally Mounted Alarm Light
- Durable Weather Resistant Hinged Poly Enclosure
- Ground Lug
- Easily Replaceable Components
- Nema 4x Rating
- Color Coded Internal Wiring
- Built and Labeled to UL 508A Standard
- Works with most Aerobic Treatment Systems
- Provided with Wiring Schematic and Detailed Connection Diagram for Installer
- Mounting Feet for Enclosure



(50B010-BIO-HWAP Shown)

### Available Options

- Externally Mounted Pump Test Switch
- Larger Enclosure
- Locking Stainless Steel Latch
- 230 Volt 1 Phase Version
- Mercury or Mechanical Float Switches for the Pump and High Water Alarm Circuits



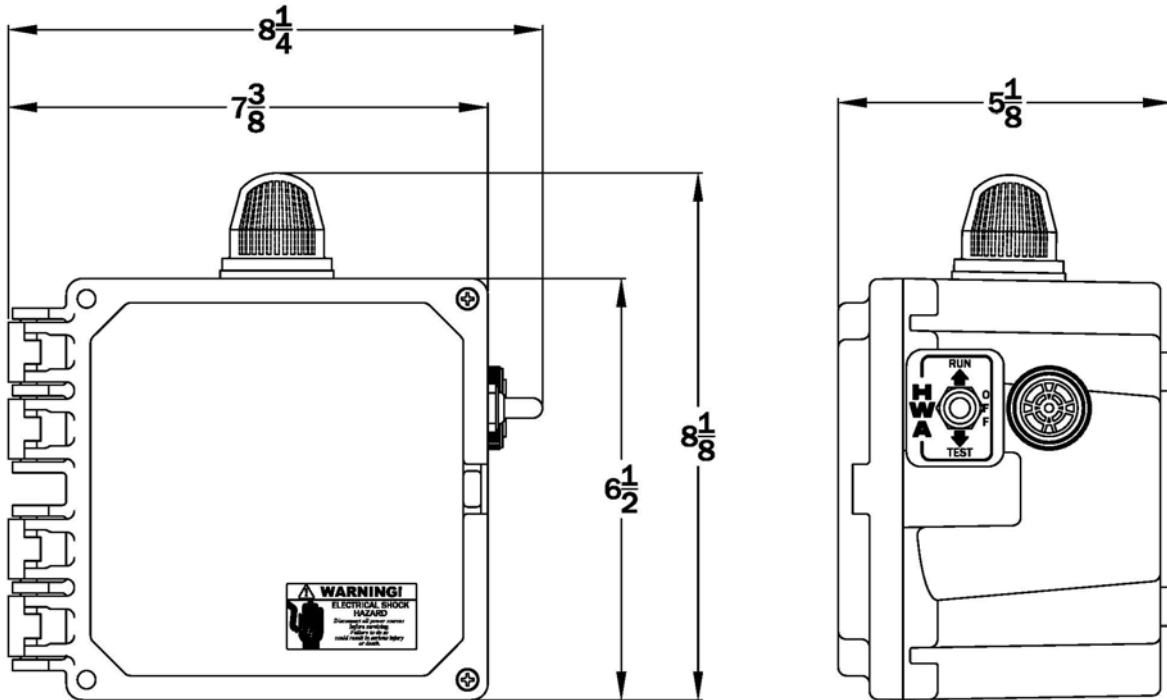
Note: Consult the factory for other available options. Also some options may require an increase in the enclosure size.



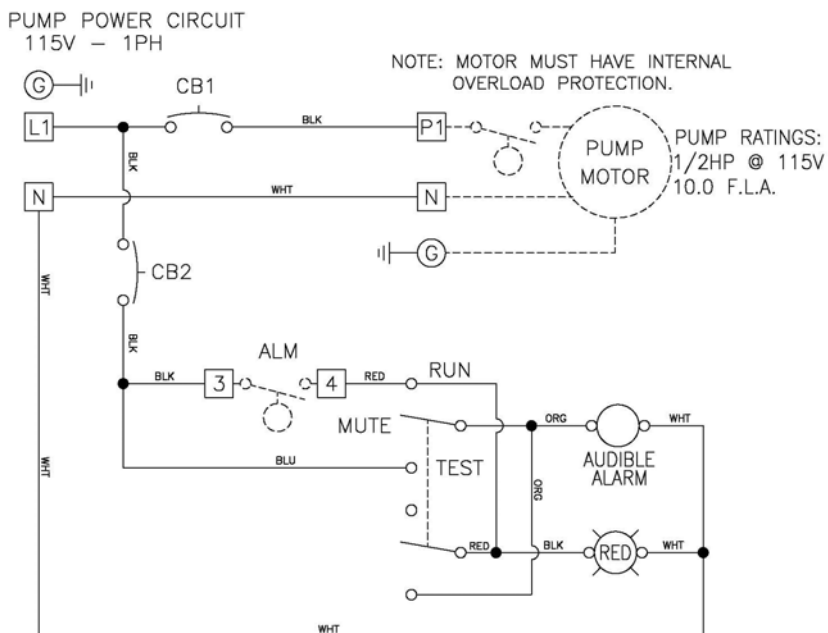
**CONTROL PANEL**

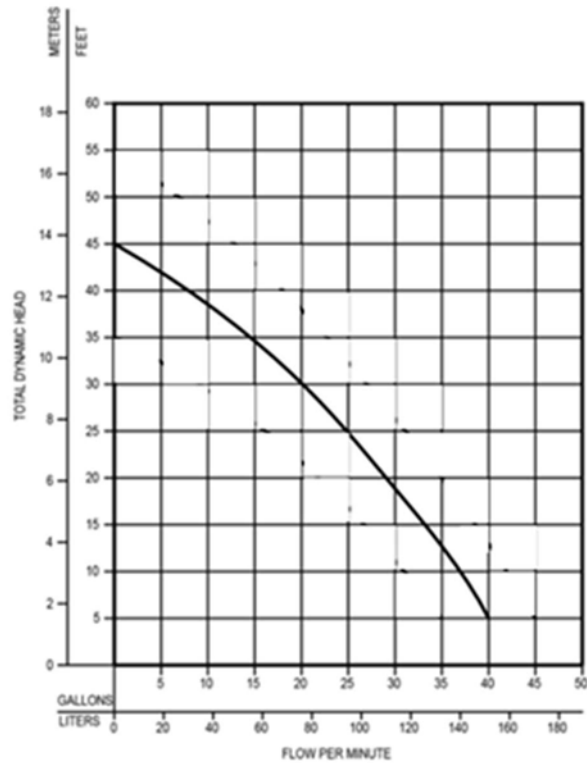
**“HWAP” Model Aerobic Control Panel**

Panel Dimensions



Wiring Schematic



**Zoeller N805 8/10HP Grinder Pump 15' Cord 115V**

Motor HP	0.8 HP
Voltage	115 V
Phase	1
Amps	9.0 A
Discharge Size	1-1/4" NPT
Cord Length	15 ft
Maximum Head	45 ft
Maximum Flow Rate	40 GPM
Weight	65 LBS

This Zoeller N805 has a cutter on the bottom of the unit will ensure that all of the flush able waste is shredded into small pieces. Grinding the solids in the wastewater helps transport the solids and reduce the size of the pipe required on the discharge side of the pipe.

Grinder pumps are great for applications where flush able material needs to be transported a long distance. This is because grinder pumps can usually handle more head pressure than non-grinder sewage pumps. The most common application for grinder pumps is for residences that need to pump their sewage uphill to a municipal sewer system.

Much like the other submersible pumps that WSS offers, Zoeller's grinder pumps and their motors sit inside the fluid that they will pump.

# Type V Liquid Processing Registration Application, Part II

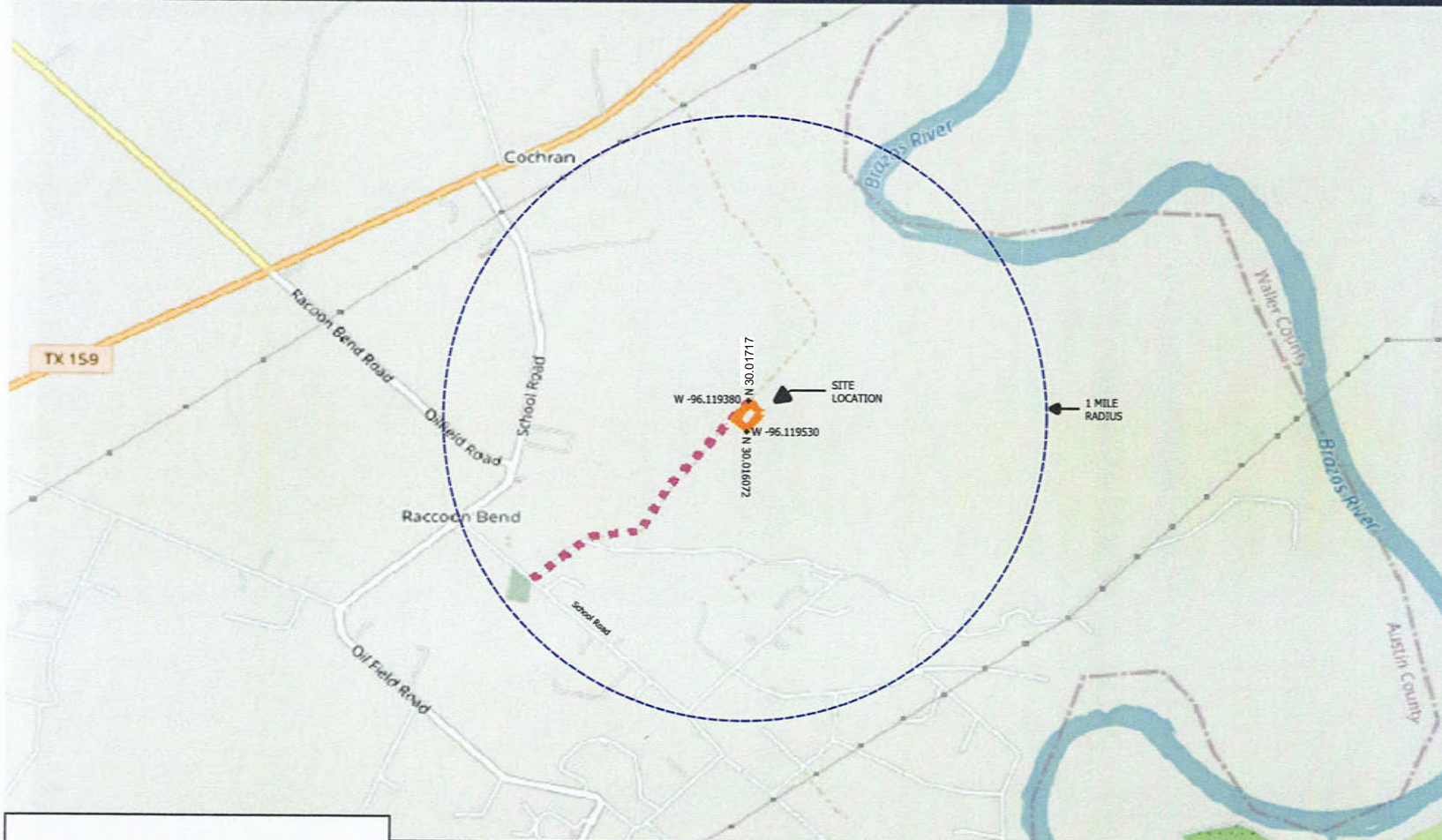
## Austin County Waste Solutions

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### **PART II-Figures**

### **Part II Figures**

# Austin County Waste Solutions- Site Location Map

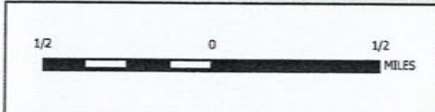


**Legend:**

- Site Location Boundaries
- - - Access Road to Facility
- - - 1 Mile Radius

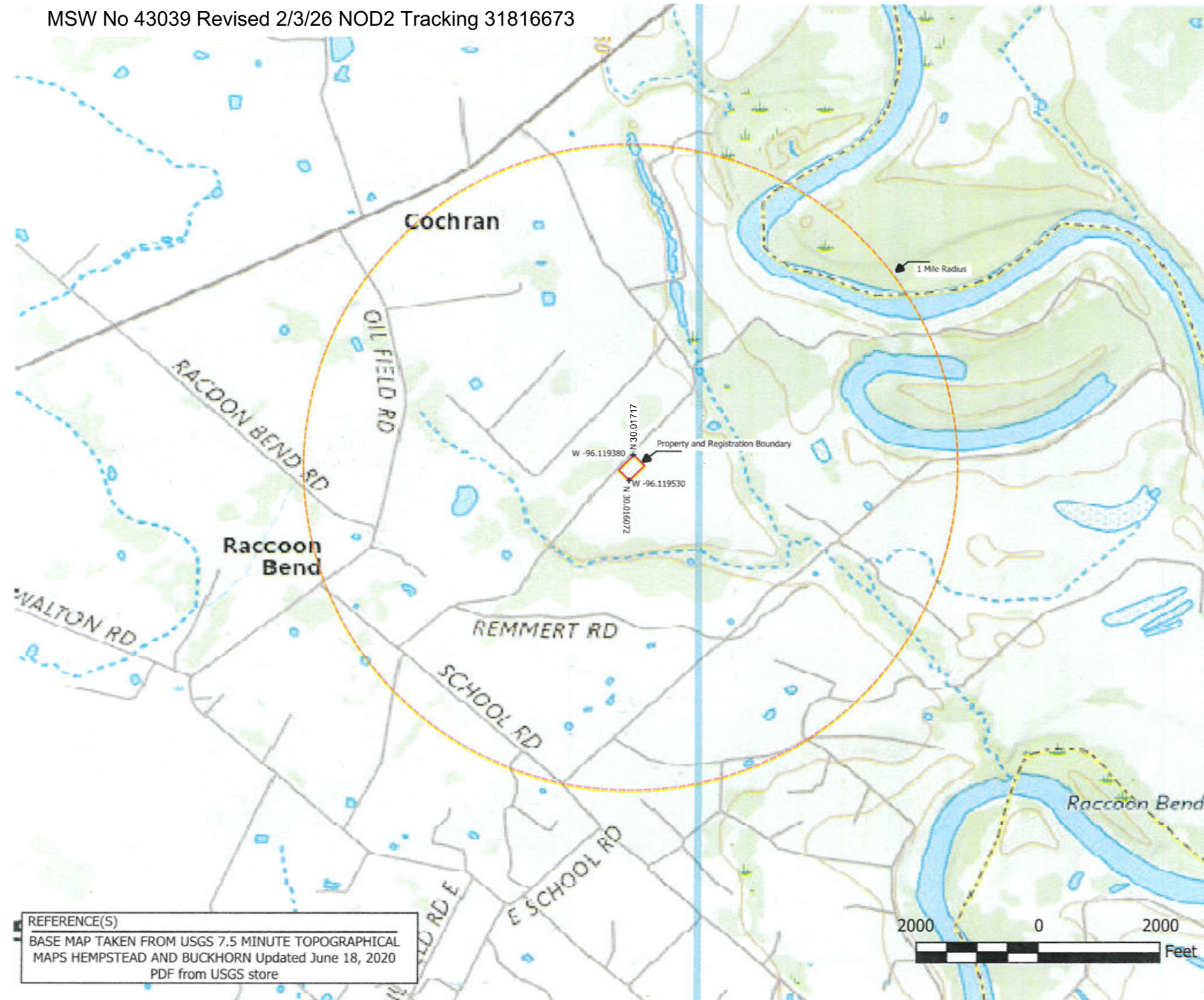
Seal:

7/10/25



REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)

Title: Site Location Map AUSTIN COUNTY WASTE SOLUTIONS Type V REGISTRATION APPLICATION Austin County, Texas	
Prepared for: 7 R Solutions, LLC	
Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure
File: ACWS Liquid Processing Facility- Site Location Map.pdf	<b>II-1</b>



**Legend:**

- Property and Registration Boundary
- 1 Mile Radius

Seal:

Seal: ESE PARTNERS STATE OF TEXAS TIMOTHY AARON O'NEIL 83145 LICENSED PROFESSIONAL ENGINEER 11/18/25 F-10131

Title:  
 General Topographical Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

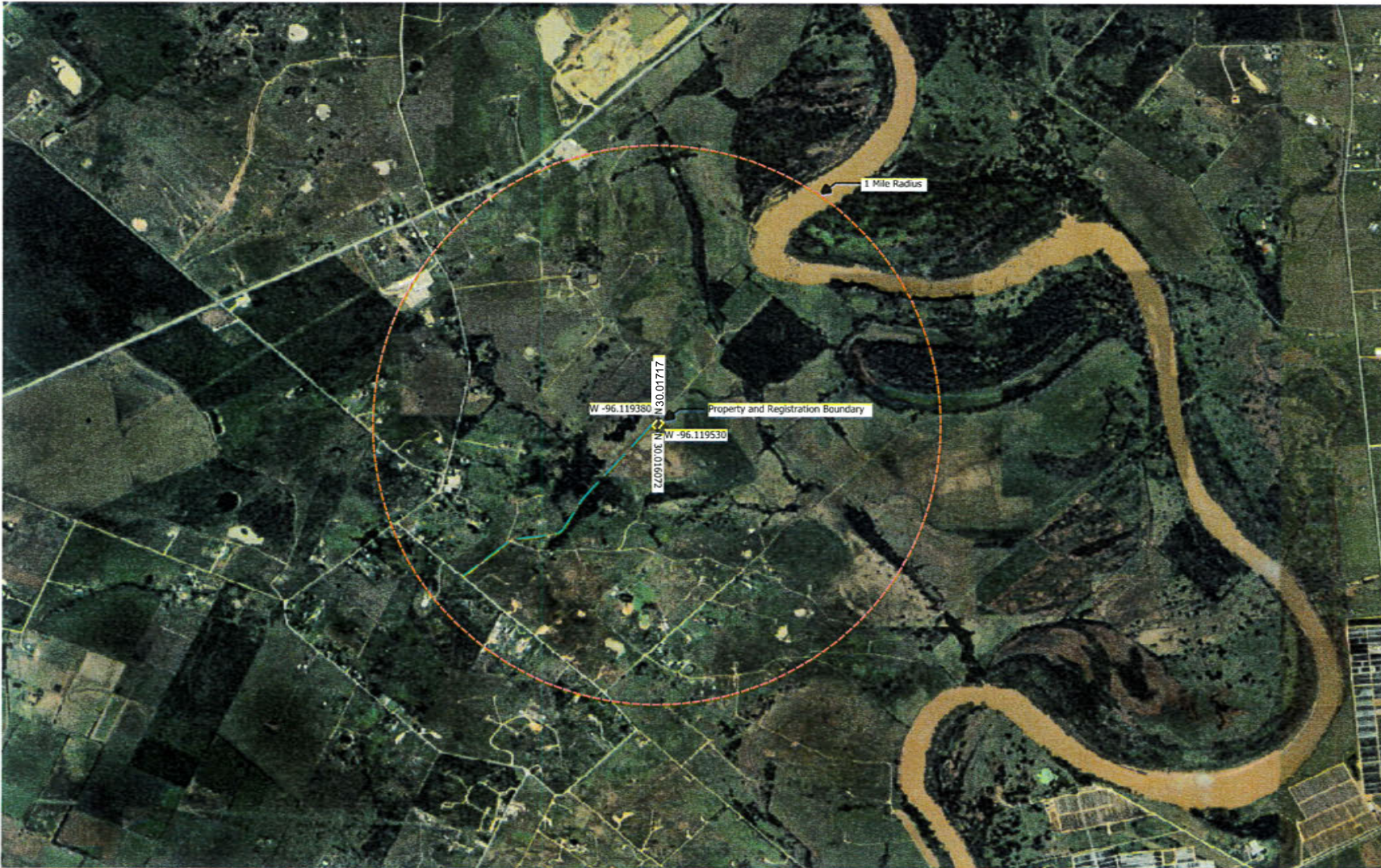
Prepared by: BMG Scale: AS SHOWN

Revised:

File:  
 ACWS Liquid Processing Facility-  
 Topographical Map.pdf

Figure:  
**II-2A**

REFERENCE(S)  
 BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store



Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius

Seal:

N

Title:  
**Aerial Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**  
 Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

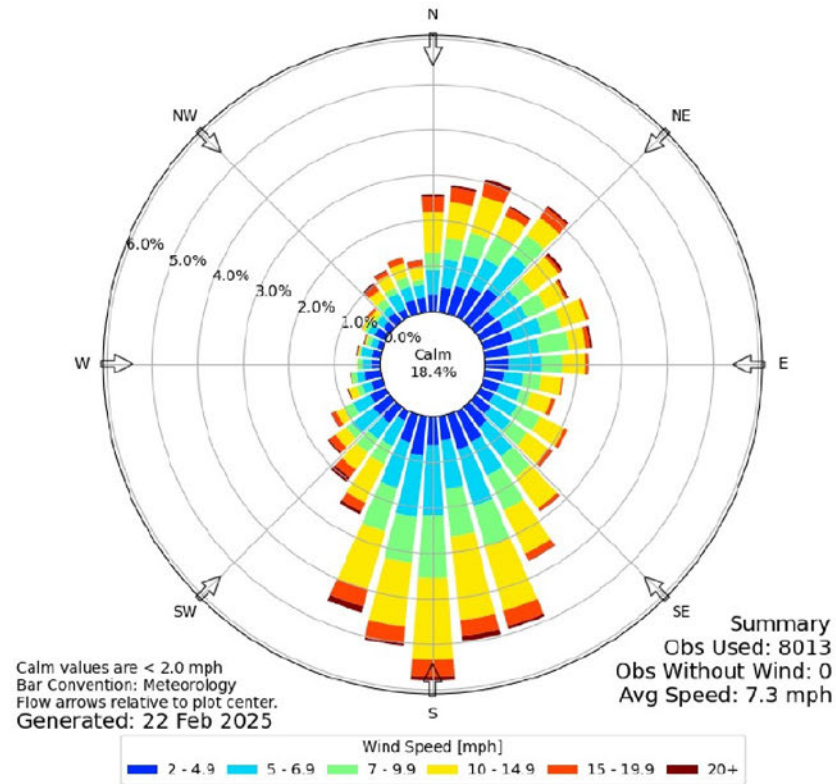
Revised:	Figure:
File: ACWS Liquid Processing Facility- Aerialmap.pdf	<b>II-3</b>

REFERENCE(S)  
 BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.

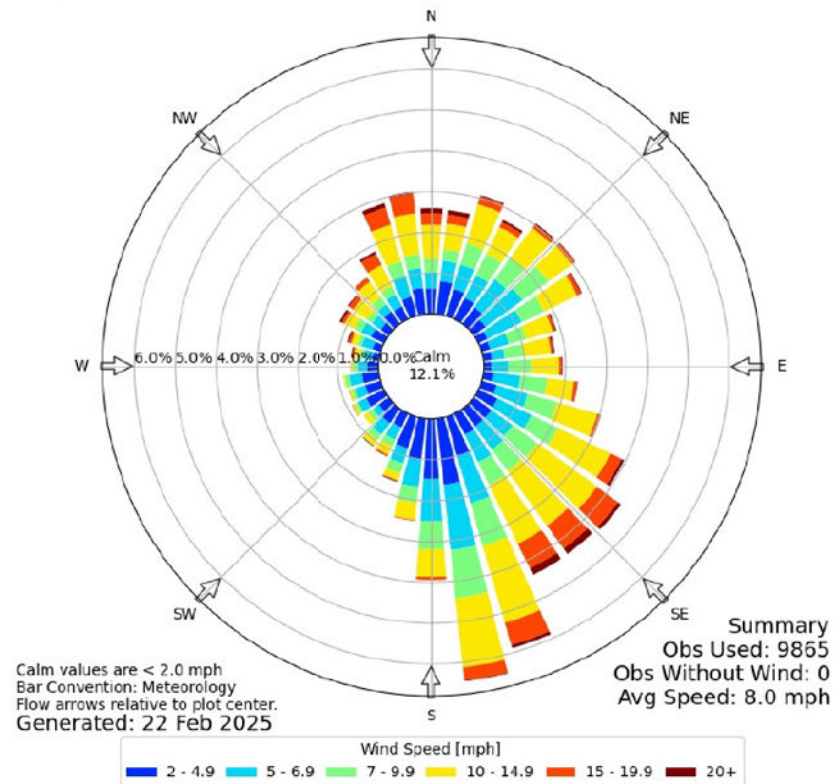




Windrose Plot for [TME] Houston Exec  
Obs Between: 01 Jan 2024 12:55 AM - 21 Jan 2025 11:35 PM America/Chicago



Windrose Plot for [IAH] Houston Intercontinental  
Obs Between: 01 Jan 2024 12:53 AM - 21 Feb 2025 11:53 PM America/Chicago



Legend:



Title:  
**Windrose Maps**  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**

Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:

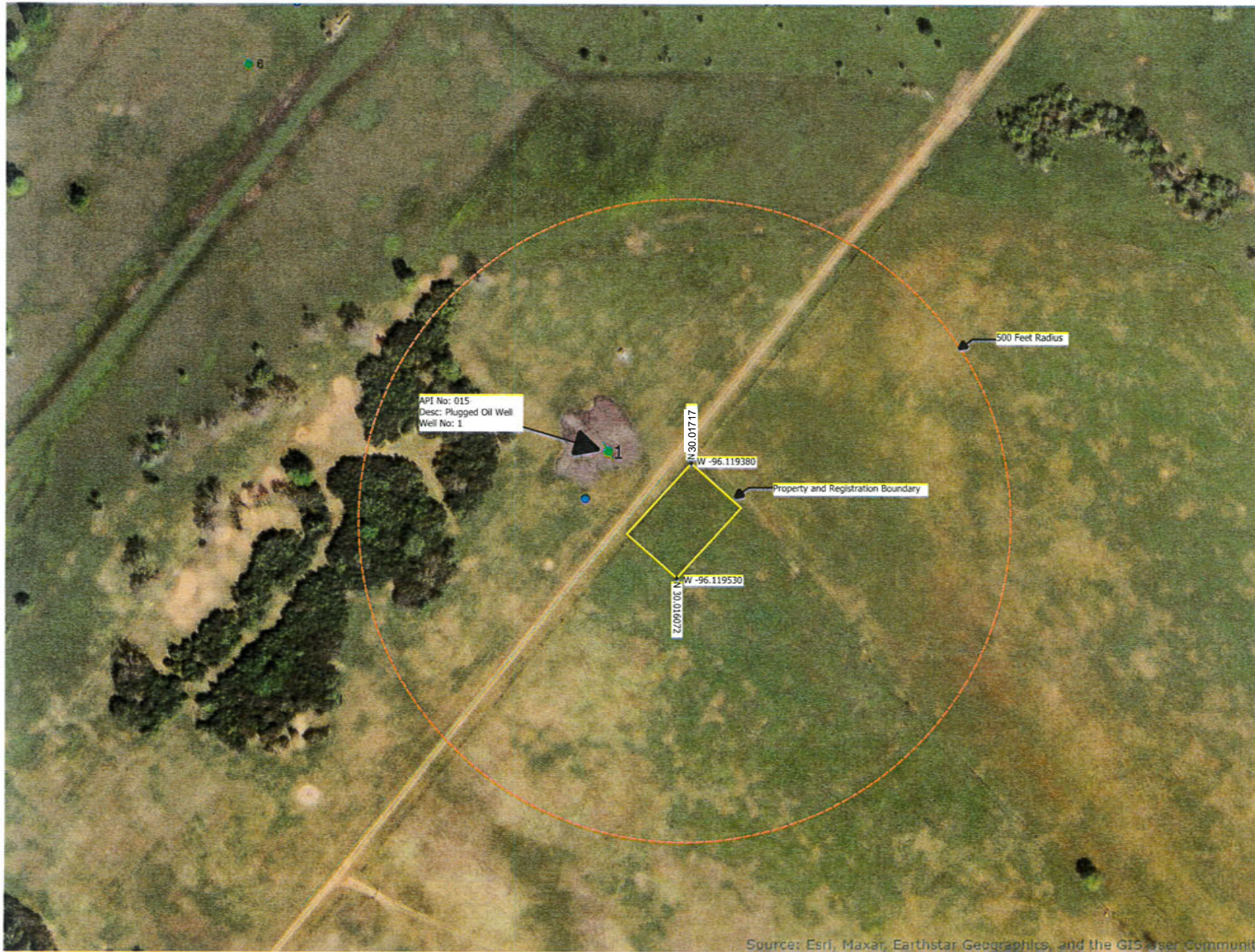
File:  
ACWS Liquid  
Processing Facility-  
Windrose Map.pdf

Figure:

**II-4**

REFERENCE(S)

Windrose from IAstate.edu Iowa Environmental Mesonet



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

REFERENCE(S)

BASE MAP TAKEN FROM TEXAS RAIL ROAD COMMISSION  
GISVIEWER ERSI Updated December 2024



Legend:

	Property and Registration Boundary
	Access Road
	500 Feet Radius
	Plugged Oil Well
	Proposed Water Well

Seal:

Professional Engineer  
F-10131  
11/19/25

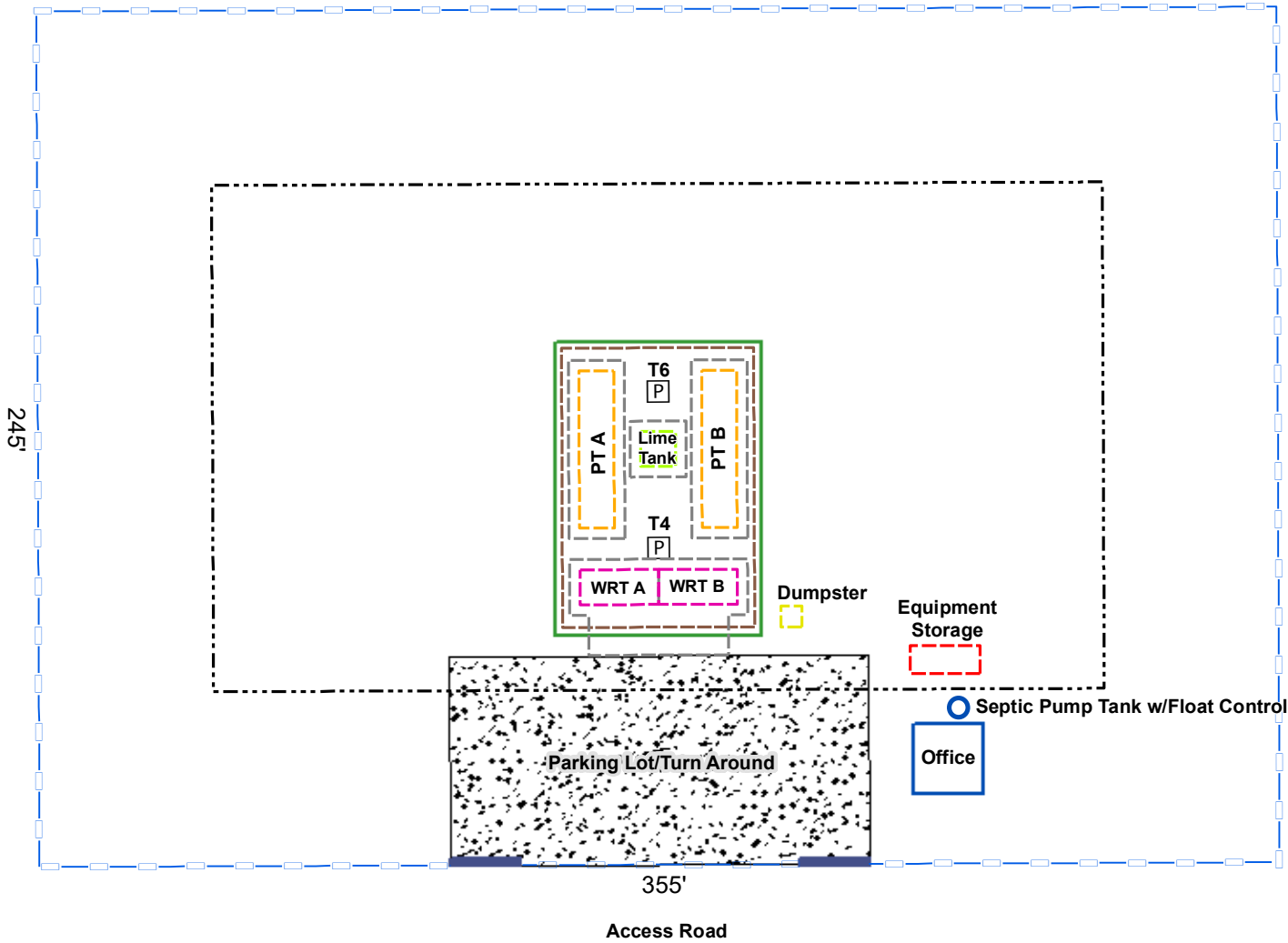
Title:  
Oil, Gas, and Water Map  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
7 R Solutions, LLC

Completed by: BMG Date: 01/02/25

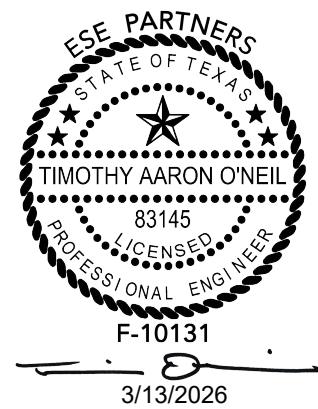
Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>II-5</b>
File: ACWS Liquid Processing Facility- Oil, Gas, and Water Map.pdf	



**LEGEND**


- Process Pump
- Septic Pump Tank with Float Control
- Fence Line (2 Acres Registration Boundary)
- 50ft Buffer from Perimeter Fence Line
- Secondary Earthen Berm
- Dumpster
- Equipment Storage
- Lime Tank
- Primary Concrete Containment
- Processing Tank
- Waste Receiving Tank
- Gravel Parking Lot/Turn Around
- Limits of Facility Cover (Metal-Tin)
- Office
- Gate



AUSTIN COUNTY WASTE SOLUTIONS  
AUSTIN COUNTY, TEXAS

**PLANNED FACILITY LAYOUT**

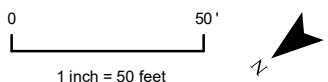
PROJECT NUMBER: 24-1353-1  
FILE NAME: FIGURE\_II-6\_SitePlan  
DATE: 3/12/2026  
DRAWN BY: LS  
APPROVED BY: TO



Copyright © 2026

Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FTUS  
Source: Aerial Imagery Provided by Google

**FIGURE II-6**



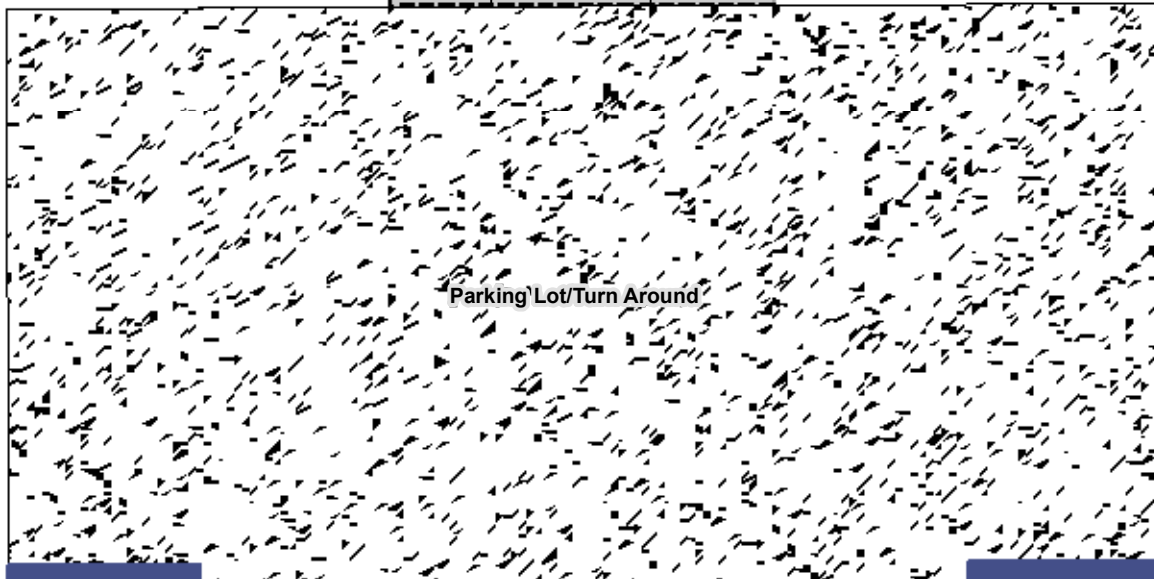
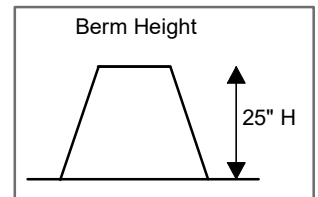
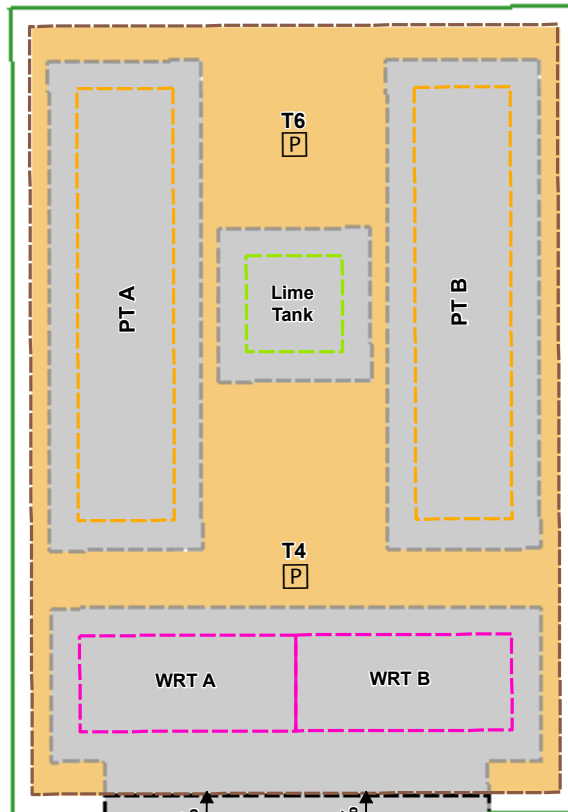
1 inch = 50 feet



3/13/2026

**LEGEND**

- P Process Pump
- Septic Pump Tank with Float Control
- Secondary Earthen Berm
- Limits of Facility Cover (Metal-Tin)
- Concrete Collection and Backup Area
- Gate
- Lime Tank
- Processing Tank
- Waste Receiving Tank
- Primary Concrete Containment
- Gravel Base
- Concrete Base
- Compacted Clay Base




Access Road

AUSTIN COUNTY WASTE SOLUTIONS  
AUSTIN COUNTY, TEXAS

**PLANNED FACILITY LAYOUT**

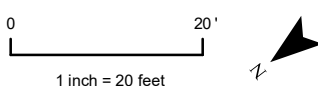
PROJECT NUMBER: 24-1353-1  
FILE NAME: FIGURE\_II-6a\_SitePlan  
DATE: 3/12/2026  
DRAWN BY: LS  
APPROVED BY: TO



Copyright © 2026

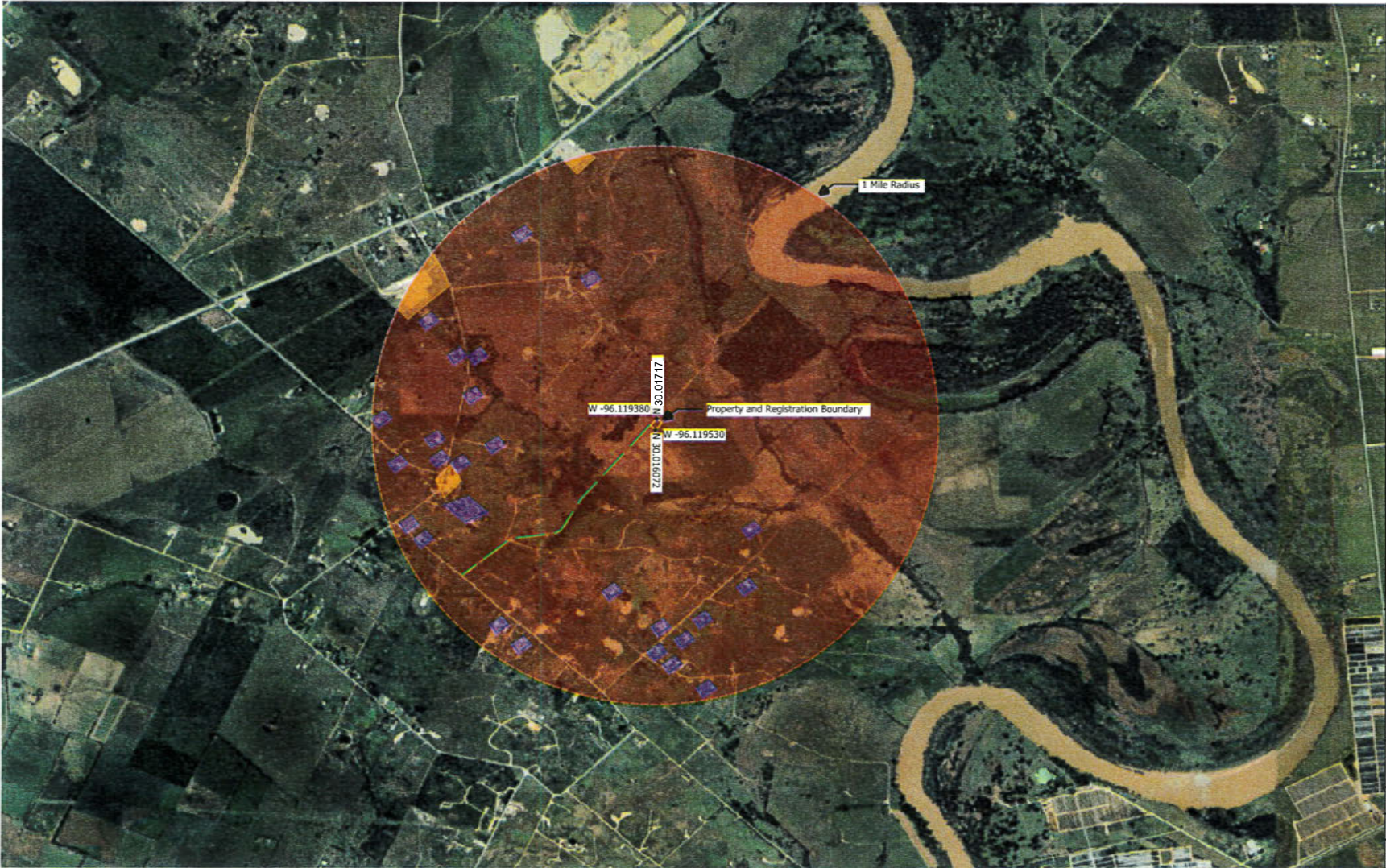
Part II Report - 157

**FIGURE II-6a**



1 inch = 20 feet

Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204  
FIPS



Legend:

	Property and Registration Boundary *
	Access Road
	1 Mile Radius
	Commercial Use
	Residential Use
	Agricultural Use



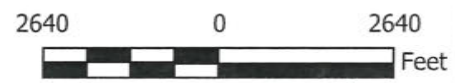
Title:  
**Land Use Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

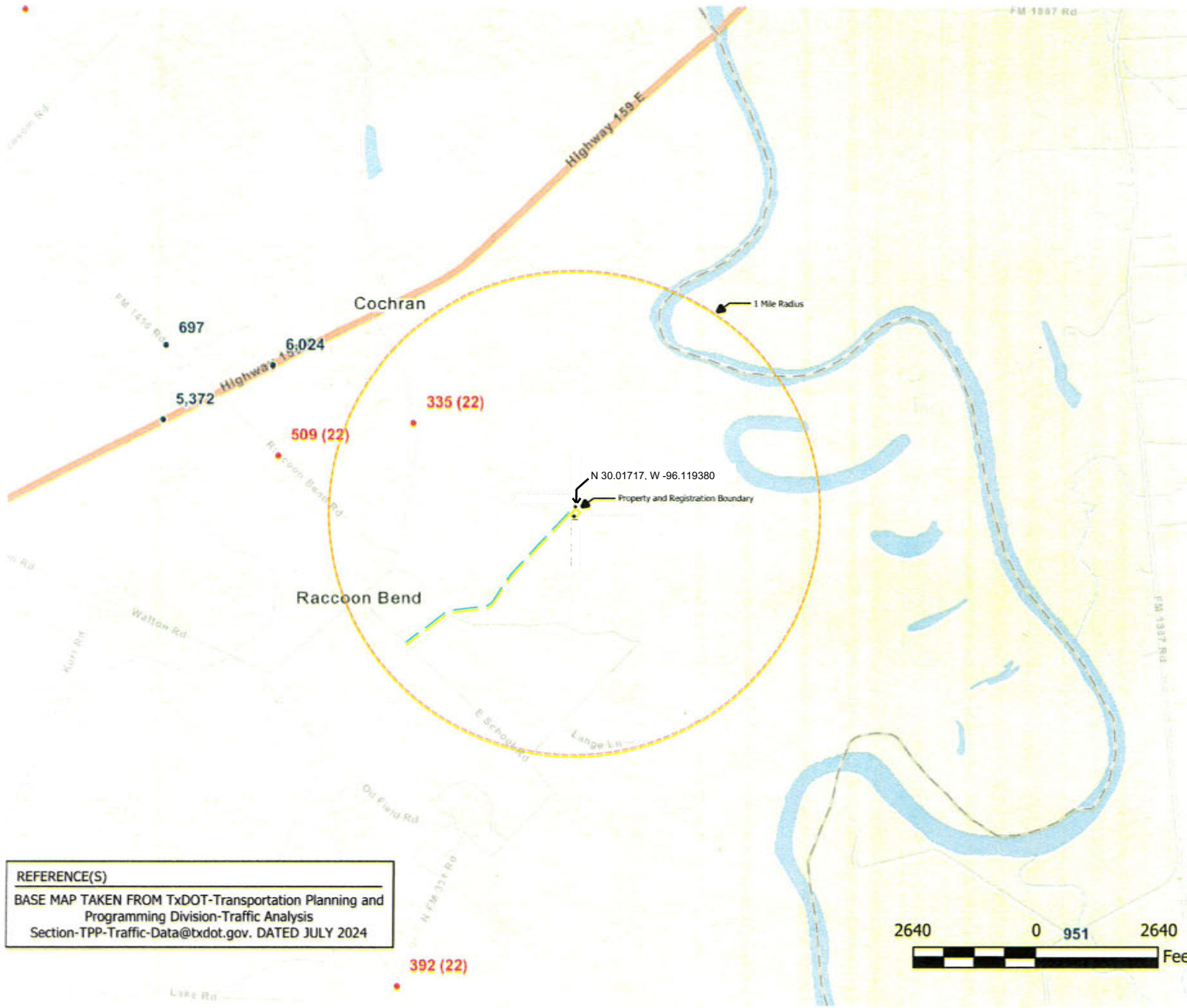
Prepared for:  
 7 R Solutions, LLC  
 Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

Revised:	Figure:
File: ACWS Liquid Processing Facility-landusemap.pdf	<b>II- 7</b>

\* No Zoning due to facility being located ETJ of Bellville.

REFERENCE(S)  
 BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.





**Legend:**

- Property and Registration Boundary
- Gravel Access Road
- Two Lane Asphalt
- 1 Mile Radius
- 123 Two way traffic total
- 123 One way traffic total

Seal:

Seal: **TIMOTHY AARON O'NEIL**  
83145  
LICENSED PROFESSIONAL ENGINEER  
F-10131  
11/19/25

Title:  
**Traffic Volumes Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

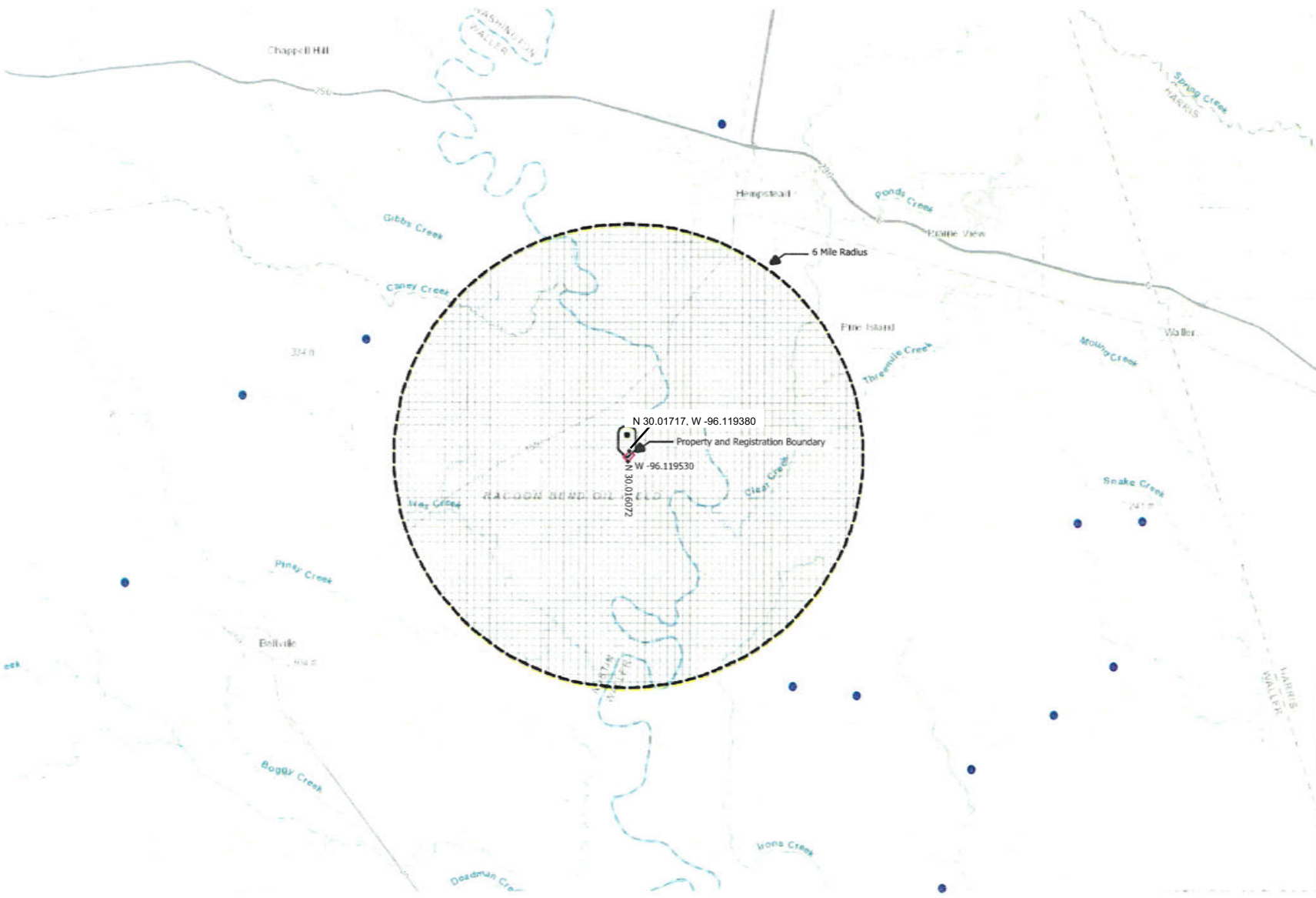
Prepared for:  
**7 R Solutions, LLC**

Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>II-8</b>
File: ACWS Liquid Processing Facility- Traffic volumes Map.pdf	

**REFERENCE(S)**  
 BASE MAP TAKEN FROM TxDOT-Transportation Planning and Programming Division-Traffic Analysis Section-TPP-Traffic-Data@txdot.gov. DATED JULY 2024



Legend:

- Property and Registration Boundary
- Airports
- 6 Mile Radius

Seal:

The seal is circular with a five-pointed star in the center. The text around the star reads 'ESE PARTNERS STATE OF TEXAS'. Below the star, it says 'TIMOTHY AARON O'NEIL', '83145', and 'LICENSED PROFESSIONAL ENGINEER'. At the bottom of the seal, it reads 'F-10131' and '11/18/25' with a signature.

Title:  
**FAA Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**

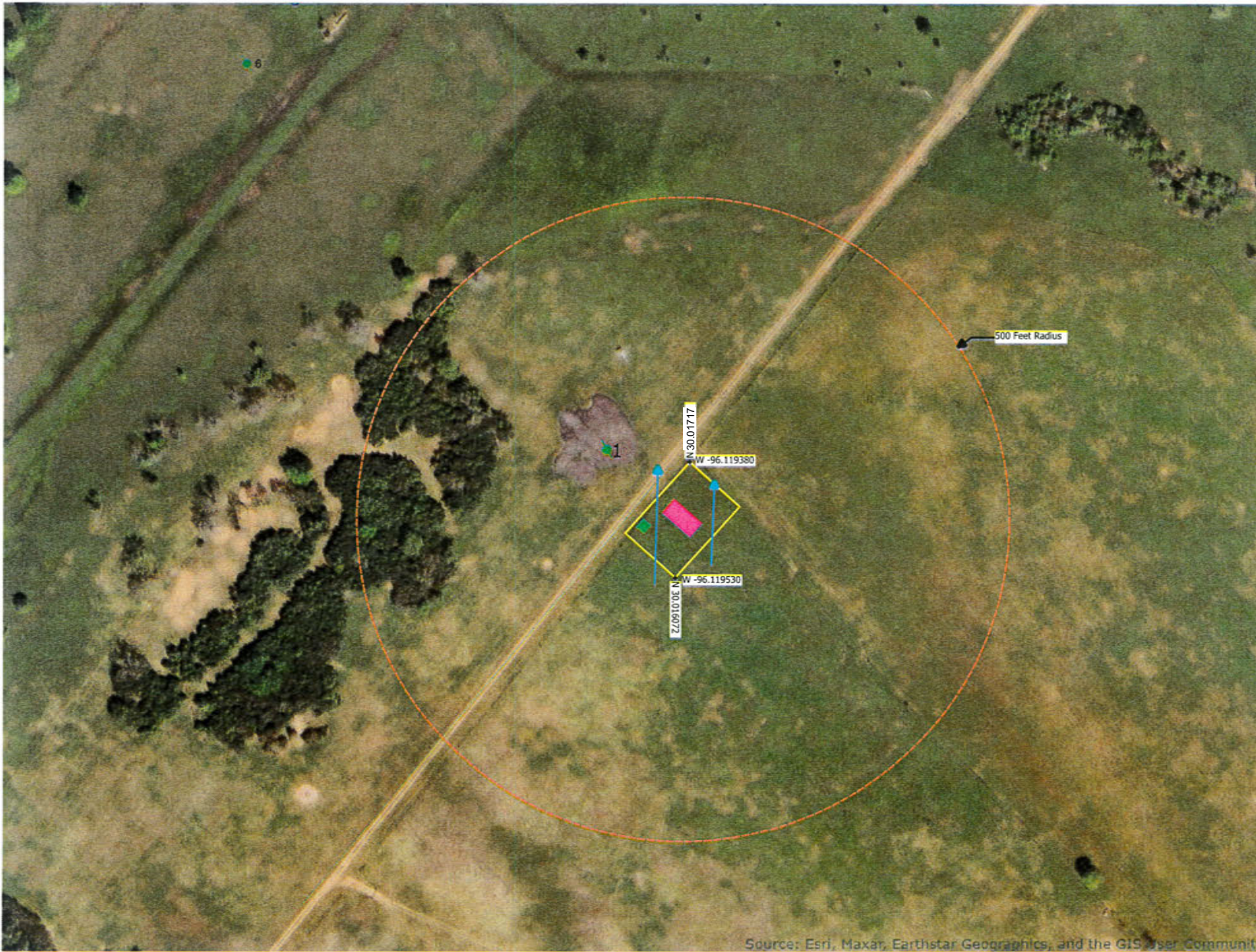
Completed by: BMG Date: 11/16/25

Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>11-9</b>
File: ACWS Liquid Processing Facility- FAA Map.pdf	

REFERENCE(S)  
 BASE MAP TAKEN FROM U.S. DEPARTMENT OF  
 TRANSPORTATION- AVIATION FACILITIES. DATED OCTOBER  
 2025.





- Legend:
- Property and Registration Boundary
  - Access Road
  - 500 Feet Radius
  - Plugged Oil Well
  - Drainage/Runoff direction
  - Processing Facility Cover
  - Office
- \*No easements in facility

Seal:

Seal: ESE PARTNERS, STATE OF TEXAS, TIMOTHY AARON O'NEIL, 83145, LICENSED PROFESSIONAL ENGINEER, F-10131, 11/18/25

Title:  
Easements & Drainage Map  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
7 R Solutions, LLC

Completed by: BMG Date: 11/16/25

Prepared by: BMG Scale: AS SHOWN

Revised:

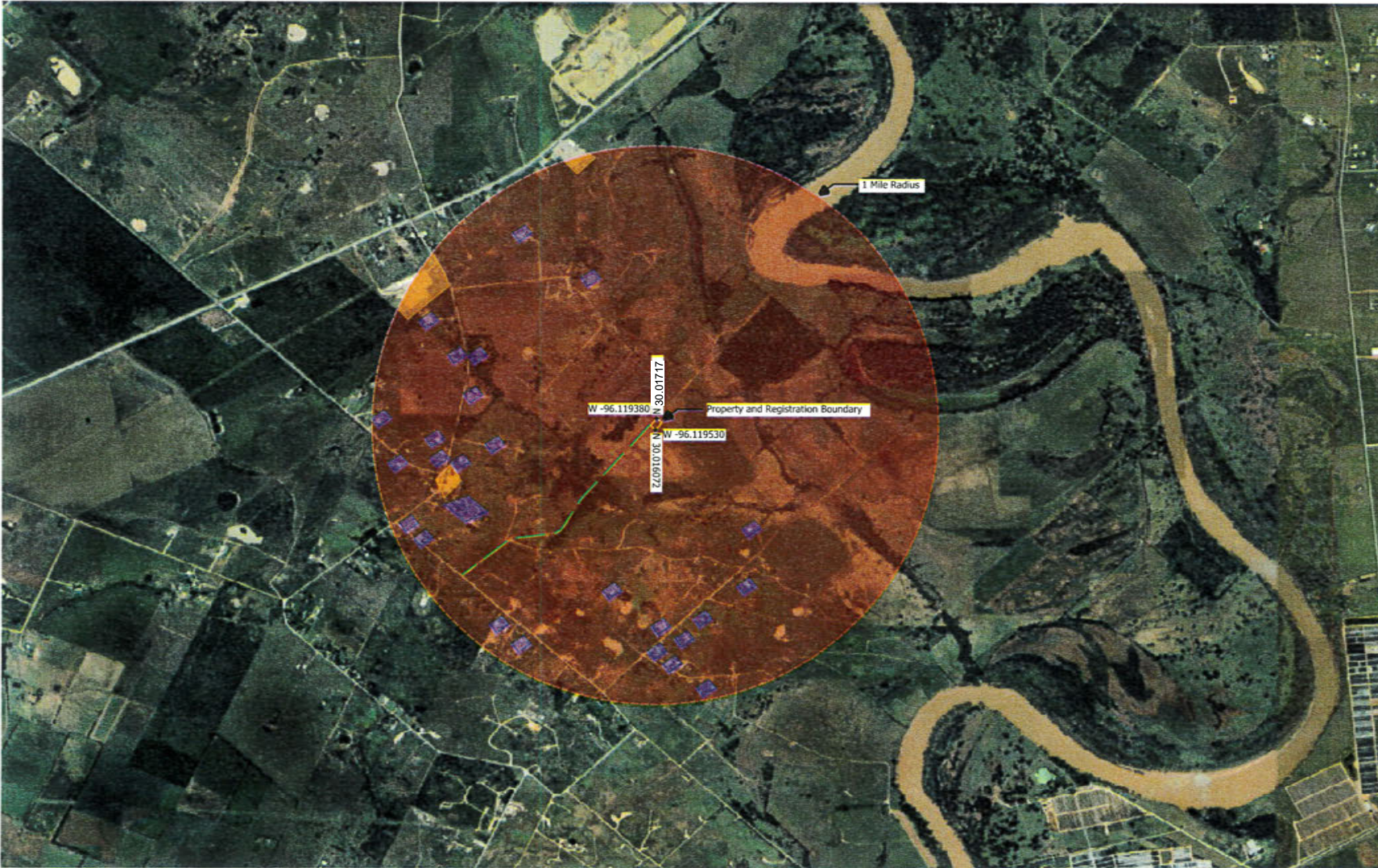
Figure:  
II-10

File:  
ACWS Liquid Processing Facility- Drainage.pdf

REFERENCE(S)  
BASE MAP TAKEN FROM TEXAS RAIL ROAD COMMISSION  
GISVIEWER ERSI Updated December 2024



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



- Legend:
- Property and Registration Boundary \*
  - Access Road
  - 1 Mile Radius
  - Commercial Use
  - Residential Use
  - Agricultural Use

Seal:

ESE PARTNERS  
 STATE OF TEXAS  
 TIMOTHY AARON O'NEIL  
 83145  
 LICENSED  
 PROFESSIONAL ENGINEER  
 F-10131  
 11/18/25

Title:  
**Zoning Map**  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**

Completed by: BMG Date: 01/02/25  
 Prepared by: BMG Scale: AS SHOWN

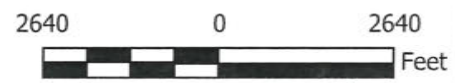
Revised:

File:  
 ACWS Liquid Processing Facility-  
 Zoning Map.pdf

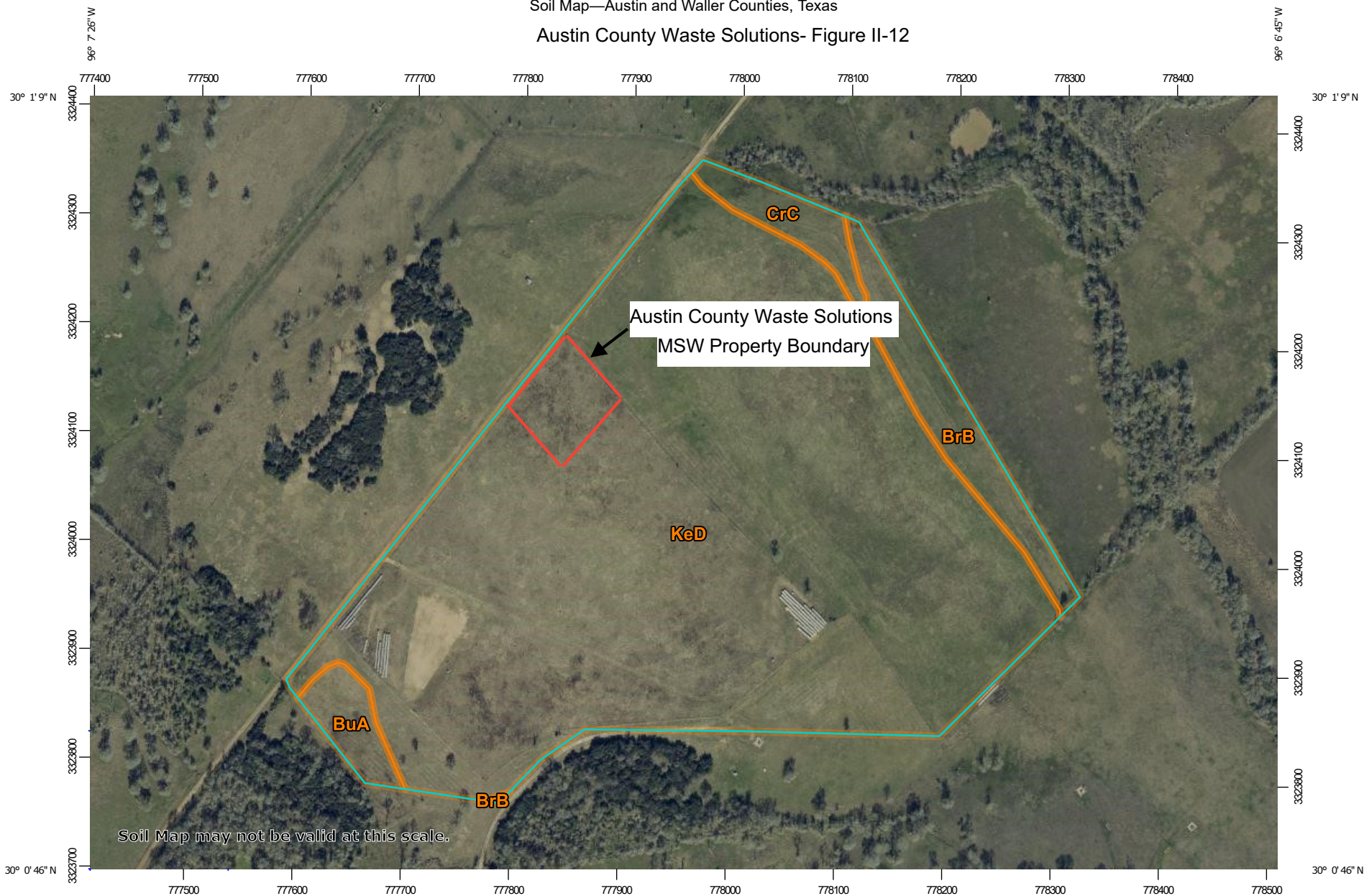
Figure:  
**II-11**

\* No Zoning due to facility being located ETJ of Bellville.

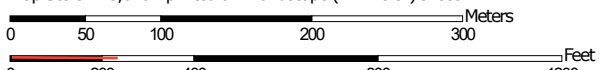
REFERENCE(S)  
 BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.



Soil Map—Austin and Waller Counties, Texas  
Austin County Waste Solutions- Figure II-12



Map Scale: 1:5,010 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84




Soil Map—Austin and Waller Counties, Texas  
 Austin County Waste Solutions- Figure II-12


**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 1:24,000.

**Warning:** Soil Map may not be valid at this scale.  
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

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

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

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

Soil Survey Area: Austin and Waller Counties, Texas  
 Survey Area Data: Version 20, Aug 24, 2022

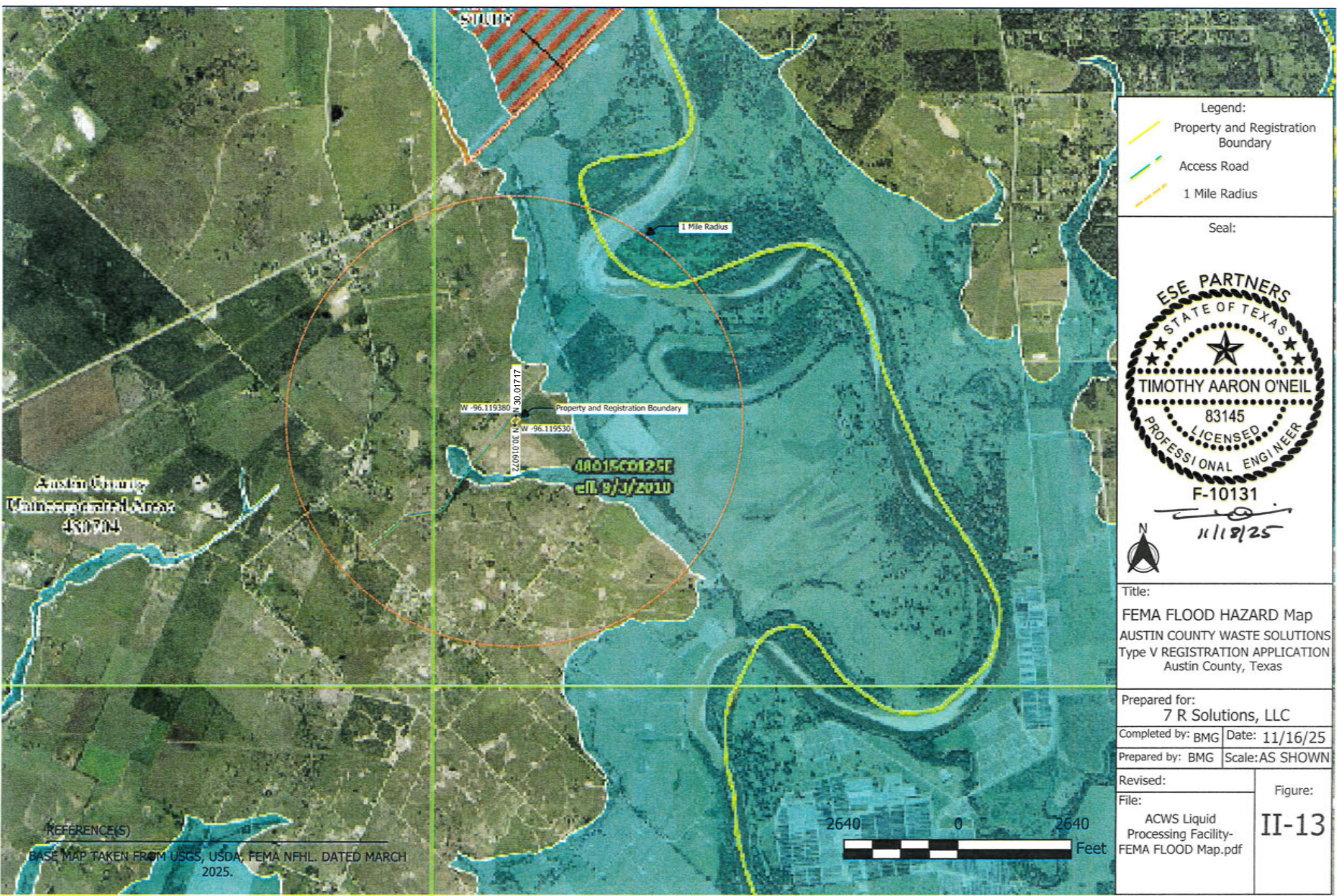
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 14, 2019—Mar 20, 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
BrB	Brazoria clay, 1 to 3 percent slopes, rarely flooded	3.3	5.5%
BuA	Burleson clay, 0 to 1 percent slopes	1.3	2.2%
CrC	Crockett fine sandy loam, 1 to 5 percent slopes	1.6	2.6%
KeD	Kenney loamy fine sand, 2 to 8 percent slopes	54.4	89.7%
<b>Totals for Area of Interest</b>		<b>60.7</b>	<b>100.0%</b>



Legend:  
 - Yellow dashed line: Property and Registration Boundary  
 - Blue dashed line: Access Road  
 - Red circle: 1 Mile Radius

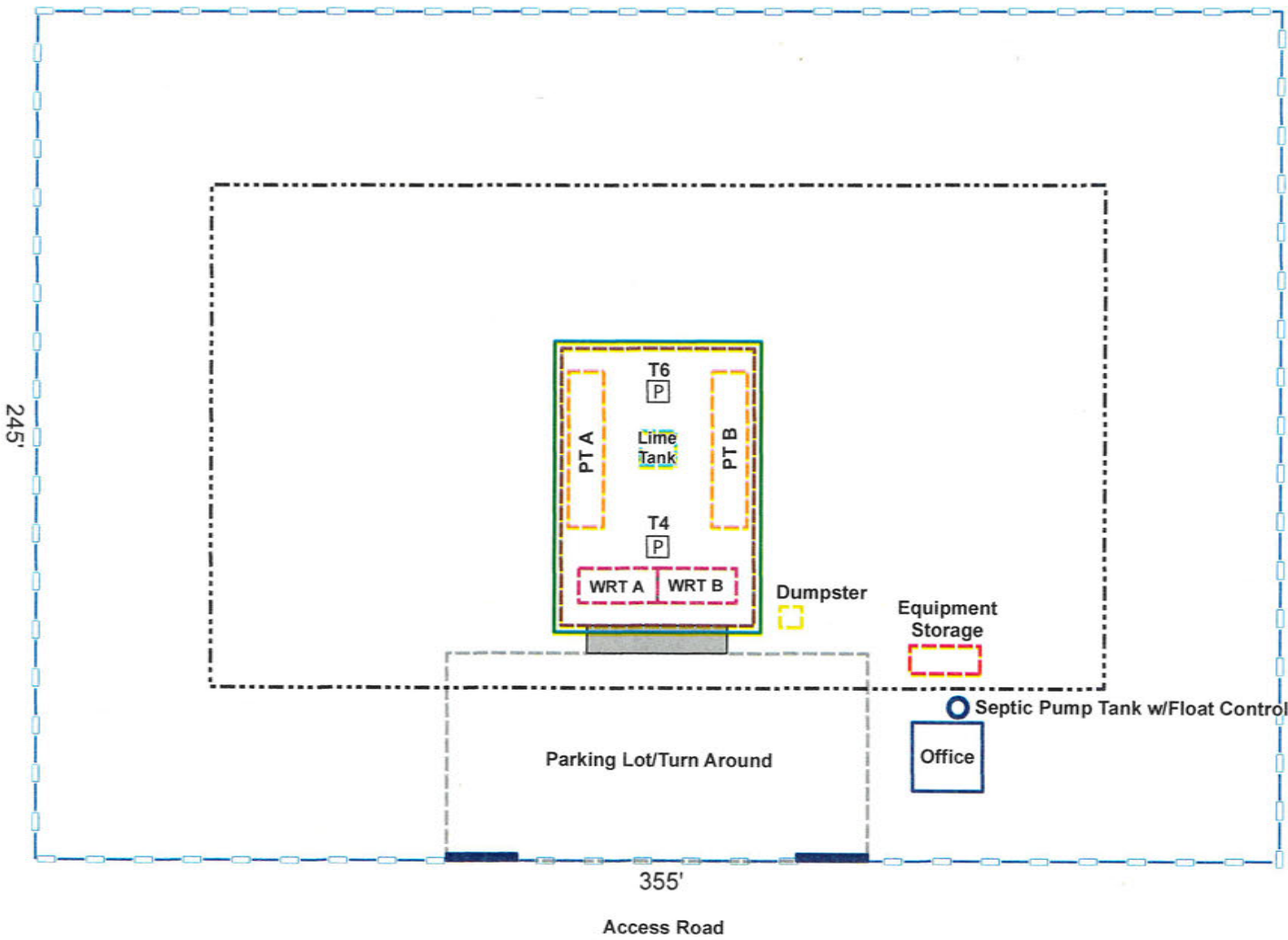
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 STATE OF TEXAS  
 ★ ★ ★ ★ ★  
**TIMOTHY AARON O'NEIL**  
 83145  
 LICENSED PROFESSIONAL ENGINEER  
**F-10131**  
 11/19/25

Title:  
**FEMA FLOOD HAZARD Map**  
**AUSTIN COUNTY WASTE SOLUTIONS**  
**Type V REGISTRATION APPLICATION**  
 Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**  
 Completed by: **BMG** Date: **11/16/25**  
 Prepared by: **BMG** Scale: **AS SHOWN**

Revised:  
 File: **ACWS Liquid Processing Facility- FEMA FLOOD Map.pdf**  
 Figure: **II-13**

REFERENCE(S)  
 BASE MAP TAKEN FROM USGS, USDA, FEMA NFHL. DATED MARCH 2025.



**LEGEND**


- P Process Pump
- Septic Pump Tank with Float Control
- Fence Line
- 50ft Buffer from Perimeter Fence Line
- Earthen Berm
- Dumpster
- Equipment Storage
- Lime Tank
- Processing Tank
- Waste Receiving Tank
- Parking Lot/Turn Around
- Limits of Facility Cover
- Office
- Concrete Collection and Backup Area
- Gate



AUSTIN COUNTY WASTE SOLUTIONS  
AUSTIN COUNTY, TEXAS

**PLANNED FACILITY LAYOUT**


PROJECT NUMBER: 24-1353-1  
FILE NAME: FIGURE\_2\_SitePlan  
DATE: 11/18/2025  
DRAWN BY: LS  
APPROVED BY: TO



Copyright © 2025

Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 F1US  
Source: Aerial Imagery Provided by Google

**FIGURE II-14**



1 inch = 50 feet

**MSW 43039**

Revised 4/4/26 NOD3

Tracking 31816673

**TYPE V LIQUID PROCESSING  
REGISTRATION APPLICATION,  
PART III REPORT**

**Austin County Waste Solutions  
Type V Liquid Waste Processing Facility  
Bellville, Texas  
Austin County**

Prepared by:

**7 R Solutions, LLC  
3655 Woodley Ln  
Bellville, Texas 77418**



F-10131

*4/7/26*

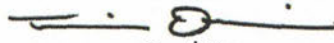
Intended for Permitting Purposes Only  
December 2024

## Type V Liquid Waste Processing Registration Application, Part III Austin County Waste Solutions

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*[Handwritten signature]*

4/7/26

# 1. Introduction

This **Part III Site Development Plan (SDP)** for the Austin County Waste Solutions Facility (“Facility or Site”) registration application has been developed in accordance with 30 TAC §330.63(a). This plan includes criteria in the design of the Facility that will provide for the safeguarding of the health, welfare, and physical property of the people and the environment through consideration of geology, soil conditions, drainage, land use, zoning, adequacy of access roads and highways, and other considerations for the Facility as dictated by the requirements of 30 TAC §330.63.

## 1.1 Site Location

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and the entrance is located 1500 feet from the intersection of Oil Field Road on the North side of School Road. There is a 0.86 mile private driveway to the 2-acre facility. The site location is shown on **Figures I-1 and I-2**. An aerial photograph showing the existing site is provided as **Figure I-3**.

The process facility land is owned by Kenneth Woodley and Facility is operated by Blake Giese (MSW Operator). The mailing/physical address for the Facility property is:

Austin County Waste Solutions  
3655 Woodley Ln  
Bellville, TX 77418

## 1.2 Land Use and Zoning

A land use analysis was performed for the Facility within a one-mile radius of the registration boundary. The majority of the land within a one-mile radius of the site is “open” area used for agriculture. The next largest component of the land is residential. A detailed analysis of the specific use breakdown is included in **Part II** of this application.

Since the Facility is located outside the extraterritorial jurisdiction (ETJ) of Bellville, there are no zoning restrictions for the Facility.

A Land Use Map is provided in **Figure II-7**, and a Zoning Map is provided in **Figure II-11**.

## 2. General Facility Design 30 TAC §330.63(b)

The general Facility design has been developed in accordance with 30 TAC §330.63(b) and is discussed in the following sections. The general Facility design includes descriptions of Facility access, waste movement, sanitation, water pollution control, and endangered species protection. The section of the SDP also includes a waste flow diagram and a schematic of waste processing and storage areas.

## **2.1 Facility Access** 30 TAC §330.63(b)(1)

The Facility is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be one entrance to a 0.86 mile private driveway to the 2-acre facility.

### **2.1.1 Access Control**

The Process Facility will limit access to the Facility with lockable gates. The entrance to the facility will only be open during operating hours or with an employee present. All vehicles carrying waste will enter through the same entrance. Upon entering the facility, vehicles will be required to stop at the office before unloading the vehicle. Vehicles will exit the facility through the same entrance.

During operation hours, the site entrance gates will be continuously monitored by site personnel to prevent any unauthorized entry to the Facility. Access to the process facility will only be given to the landowner, employees, customers contracted to dispose, and TCEQ officials.

A conspicuous sign measuring a minimum of four feet by four feet will be maintained at the public entrance to the Facility. The sign states, in letters at least three inches high, the name of the site, type of site, the registration number issued by the TCEQ, hours and days of operation, an emergency 24-hour contact phone number(s), and the local emergency fire department phone number. The sign is visible and readable from the Facility entrance.

### **2.1.2 Adequacy of Access Roads and Highways**

A more detailed traffic and road adequacy analysis is included in Part II, Section 2.3. In accordance with §330.61(i)(4), TxDOT was contacted for any traffic or location restrictions which may apply to the proposed facility. Copies of the related correspondence are included in Part II, Attachment IIC.

## **2.2 Waste Movement** 30 TAC §330.63(b)(2)

Figure III-1, General Process Flow Schematic illustrates a generalized process design and working plan of the overall Facility. In general, bulk slurry lime is received from an approved supplier. Weight and pH is monitored upon receiving. The bulk slurry lime is temporarily stored for the lime stabilization treatment of domestic septage. Domestic septage will be delivered to the facility by customer pump trucks. The septage will be pumped into the facility via customers' pump truck into the facility's waste receiving tanks. A flow meter will be used to measure the gallon/per minute into the tank. A bar screen at the top of the facility's septic waste tank is used to remove inorganics. The inorganics will then be manually removed and placed into a dumpster, which is managed by a contracted waste company. The waste will then be transported to a TCEQ-approved landfill. Electric pumps will then move the septic waste through an additional smaller bar screen and into the processing tanks. Inorganics from this bar screen will also be placed into the same dumpster. Slurry lime will then be added for lime stabilization to properly neutralize sewage odors. The lime is pumped into the processing tank with the screened septage and re-circulated via pumps for blending. A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes per the requirement. Addition of domestic water

will be used as a further processing aid if needed. Once treated and all requirements are met, the septage will be pumped onto a TCEQ approved BFU site.

### **2.2.1 Waste Flow Diagram** 30 TAC §330.63(b)(2)(A)

**Figure III-1** General Process Flow Schematic, developed in accordance with §330.63(b)(2)(A), is a flow diagram illustrating storage, processing, and disposal sequences for the types of waste accepted.

### **2.2.2 Schematic View Drawing** 30 TAC §330.63(b)(2)(B)

**Figure III-1** General Process Flow Schematic, developed in accordance with §330.63(b)(2)(B), is a schematic view showing the various phases of collection, separation, and processing for the types of waste accepted at the facility.

### **2.2.3 Ventilation and Odor Control Measures** 30 TAC

§330.63(b)(2)(C)

All domestic septage being received by the facility will be transferred into enclosed frac tanks. Lime will be added to increase pH for pathogen and odor control. A minimum 50' buffer will be utilized around the entire 2-acre facility to prevent nuisance odors from leaving the boundary of the facility. If, at any time, nuisance odors are found to be passing the Facility boundary, the operator will employ and properly maintain/operate odor control equipment. The Facility may be required to suspend operations until the nuisance has been properly abated.

### **2.2.4 Generalized Construction and Engineering Details** 30

TAC §330.63(b)(2)(D)-(F)

The Facility is designed to receive and process up to 42,000 gallons of domestic septage per day. The process is organized into two trains to ensure continuous operation. Train A consists of Waste Receiving Tank WRT-A 10,500-gallon capacity and Processing Tank PT-A, while Train B consists of WRT-B 10,500-gallon capacity and PT-B. Septage from incoming trucks is first offloaded into WRT-A or WRT-B, depending on the train. These Waste Receiving Tanks serve only as temporary offload points and are immediately pumped into their associated Processing Tanks using Gorman-Rupp T4 pumps operating at 300 gallons per minute, so they do not contribute to the liquid staging capacity. Before entering the Processing Tanks, septage flows through two screens—first a 0.5-inch screen to remove large debris, then a 0.25-inch screen to remove smaller debris. Screened solids are manually removed once per day or as needed and placed in a TCEQ-approved 3-cubic-yard dumpster.

Within the Processing Tanks, septage is circulated using Gorman-Rupp T6 pumps with 8-inch propellers, operating at 800–1000 gallons per minute. Lime from a 3,000-gallon slurry tank is added to raise the pH to 12, which is maintained for 30–45 minutes to stabilize the waste and control pathogens. Once PT-A (Train A) is fully processed, the T6 pump discharges the stabilized septage to the TCEQ-approved 7 R Ranch disposal fields via a rain-gun system, and PT-B (Train B) is processed in the same manner. This train operation ensures that at least one Processing Tank is always

available to receive septage while the other is stabilizing or being emptied, maintaining efficient daily processing.

All Processing Tanks are installed on reinforced concrete pads over a gravel base, located under a covered metal roof constructed with tin panels within a bermed containment area to prevent spills and protect against weather. A 50-foot buffer separates the processing area from the 4-foot barbed wire property fence, further preventing nuisance odors from leaving the site. This system ensures that all septage is screened, stabilized, and safely disposed of daily, while the pumps, screens, and containment measures provide reliable, compliant operation under 30 TAC §330.63.

## **2.2.5 Storage of Grease, Oil, and Sludge** 30 TAC §330.63(b)(2)(G)

The Facility will not accept or store grease or oil. Domestic Septage is the only waste that will be accepted. All processed septage will be treated and land applied daily per normal operations. In a rain event or saturated soils, we will stage the treated septage for no more than 7 days. Unprocessed domestic septage will not be allowed to remain in tanks for more than 72 hours. §330.63(b)(2)(G)

## **2.2.6 Disposition of Effluent** 30 TAC §330.63(b)(2)(H)

All processed domestic septage will be land applied for beneficial use.

## **2.2.7 Noise Pollution Control** 30 TAC §330.63(b)(2)(I)

The Facility is located to minimize the potential noise pollution and visual impact to neighboring landowners and the public. The direct impact to the neighboring properties is minimal. The 2-acre facility sits in the middle of a 2,200-acre privately owned ranch.

## **2.3 Sanitation**

### **2.3.1 Processing Areas Designed for Proper Cleaning and Surface Drainage Controls**

30 TAC §330.63(b)(3)(A)

The Facility will be designed to control surface water runoff and drainage control. The process facility will be covered to prevent stormwater from entering the treatment area. We will have a berm around the process area with a containment capacity that is greater than the total maximum waste storage capacity for the facility (63,000 gallons).

### **2.3.2 Construction Material Used That Can Be Cleaned**

30 TAC §330.63(b)(3)(B)

The process area is composed of metal tanks on concrete pads with raised edges to contain incidental spills/leaks, which can be easily cleaned utilizing a high-pressure washer.

### **2.3.3 Equipment for Cleaning with Water or Steam**

30 TAC §330.63(b)(3)(C)

A high-pressure washer will be staged at the Facility or rented on an as necessary basis for cleaning purposes.

### **2.3.4 Floor Drains and/or Sumps AC** §330.63(b)(3)(D)

Figure II-6A, Detail of Processing Area Structure.

### **2.3.5 Water Pollution Control- Description of Proper Disposal of Liquids Resulting from Waste Processing, Details for Treatment of Wastewater** 30 TAC §330.63(b)(4)

All septage will be treated per 30 TAC §312 for beneficial land application on our BFU sites.

### **2.4 Endangered Species Protection** 30 TAC §330.63(b)(5)

A threatened and endangered species assessment was conducted for the proposed registration application. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973 and subsequent amendments and listings in accordance with the requirements of 30 TAC §330.61(n). Based on a field survey and available records, it was concluded that the Facility and the operation of the Facility is not expected to result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species. A copy of the assessment is included in **Part II, Attachment IIE**.

### **3. Surface Water Drainage Report** 30 TAC §330.63(c)

The Facility was designed, constructed, and is operated to comply with the requirements of §330.303. The drainage and floodplain criteria applicable to the proposed Facility are summarized in the following sections.

#### **3.1 Drainage Analyses** 30 TAC §330.63(c)(1)

The design of the Facility manages run-on and runoff during the peak discharge of a 25-year rainfall event and prevents the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. Surface water drainage in and around the facility is controlled to minimize surface water running onto, into, and off the treatment area.

## **3.2 Flood Control and Analyses** 30 TAC §330.63(c)(2)

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) that includes the site area (Austin County, Texas and Incorporated Areas, Map Number 48015C0125E, dated September 03, 2010) was reviewed and is included in Figure II-13. The figure shows the boundary of the proposed Facility registration on the FIRM.

The FIRM indicates that the Facility registration boundary is outside of the 100-year floodplain. Therefore, no additional floodplain information is required to be provided nor is a floodplain construction permit required.

## **4. Waste Management Unit Design** 30 TAC §330.63(d)

Rules §330.63(d)(2), (3), (4), (5), (6), (7), and (9) pertaining to incineration units, surface impoundments, landfill units, arid exemption landfill application, Type V mobile liquid waste processing units, Type IX waste processing units, and Type VI waste processing demonstration facilities, respectively, are not applicable for the Facility. 7 R Solutions Processing Facility is a Type V Liquid Processing Facility.

### **4.1 Storage and Transfer Units**

#### **4.1.1 Efficient Waste Processing** 30 TAC §330.63(d)(1)(A)

The Facility is specifically designed for the rapid processing of domestic septage through a closed, controlled system that prevents nuisance conditions and health hazards. All septage is received directly from transport vehicles into enclosed Waste Receiving Tanks (WRT-A or WRT-B) and immediately transferred into enclosed Processing Tanks (PT-A or PT-B) located under a covered roof within a bermed containment area. The process operates as two alternating trains, ensuring continuous and efficient flow without prolonged holding. Upon transfer, lime slurry is added in excess of the calculated amount (about 360-440 gallons required for each 21,000-gallon batch), ensuring rapid pH elevation to 12 and maintaining that level for 30–45 minutes to achieve pathogen reduction and odor control. The lime slurry is prepared in a dedicated tank and introduced directly into the processing tanks to provide consistent mixing and stabilization. All processing, stabilization, and discharge occur in enclosed tanks, and all liquids are managed on-site, preventing exposure to the environment. The stabilized liquid is then land-applied at the TCEQ-approved 7 R Ranch disposal fields using a rain-gun distribution system. This fully enclosed, bermed, and buffered design allows for the rapid and sanitary treatment of domestic septage while ensuring compliance with 30 TAC §§312 and 330 and preventing any nuisance odors or public health impacts.

#### **4.1.2 Spill Containment** 30 TAC §330.63(d)(1)(B)

The Processing Tanks (PT-A and PT-B) are 21,000-gallon enclosed frac tanks designed to handle the maximum daily volume of septage for each train. Both Receiving tanks are equal to one 21,000-gallon frac tank. The tanks are located within a bermed containment area measuring 55 feet wide

by 75 feet long by 25 inches high, providing a total containment volume of approximately 63,000 gallons. This volume is sufficient to contain a worst-case spill from a single Processing Tank and even accommodates a simultaneous spill from both Receiving and Processing Tanks, providing a substantial safety factor above the combined tank volume of 64,285 gallons. The berm is constructed of reinforced soil or other impervious material and, in combination with a metal roof-tin covering the 65-foot by 85-foot processing area, prevents stormwater intrusion and protects the tanks from environmental exposure. This design ensures that any accidental spill or overflow remains fully contained within the bermed area, preventing release to the environment, minimizing nuisance odors, and maintaining compliance with 30 TAC §312 and 330.

Secondary containment is sized generously above the tank capacity to provide effective control of both single- and dual-tank spill scenarios, ensuring safe and compliant operation of the facility.

### **4.1.3 Maximum Storage Time** 30 TAC §330.63(d)(1)(C)

There is no storage at the Facility; all septage is treated and land-applied on the day of receipt, as described in Part IV Report – Section 2.2. The Facility operates as two alternating trains: Train A (WRT-A + PT-A) and Train B (WRT-B + PT-B) to ensure continuous processing. Upon arrival, septage is offloaded into the Waste Receiving Tanks, which instantly transfer the material into the associated Processing Tank, and remains in the WRT for no longer than 20 minutes. Processing is conducted in batches of up to 21,000 gallons, with a maximum of two batches processed per day. Lime is added and continuously mixed in the Processing Tanks to stabilize the septage and maintain a pH of 12 for 30–45 minutes. All septage is treated and ready for land application the same day it is received. In the event of a rain or other operational delay, staging of septage is allowed in the Processing Tanks for no more than seven days, consistent with 30 TAC §312, after which the material must be treated and land-applied to maintain compliance with environmental and public health requirements. Sewage must be treated prior to any potential staging for up to 7 days. Unprocessed sewage may only remain in processing tanks for up to 72 hours.

## **5. Facility Closure**

### **5.1 Closure Plan** 30 TAC §330.459

The Facility's Closure Plan, compliant with 30 TAC §330.459, outlines the procedures for waste removal from processing units. It details the complete removal of waste and the decontamination of the processing units. All waste materials on-site will be transported and disposed of at a TCEQ-approved facility. Decontamination of the Facility using a pressure washer and vacuum truck, with the full plan provided in **Attachment IIIA**.

Post-closure maintenance is not required by the current TCEQ rules.

## 5.2 Cost Estimate for Closure 30 TAC §330.505

Closure Cost Estimates have been prepared in accordance with 30 TAC §330.505 and documentation required to demonstrate financial assurance as specified in 30 TAC §330.63(j), included as **Attachment IIIB**.

The estimated cost for closure is **\$35,000** in 2025 dollars.

A calculation for the engineering costs associated with the closure is included in **Attachment IIIB**. No dismantling of the concrete pad or drainage structures will be conducted at closure. No changes to the site elevations at closure will occur that will affect the final contour map.

## 5.3 Closure Plan Activities 330.459

The Facility consists of three frac tanks used for the receipt and processing of domestic septage. Each frac tank constitutes a waste management unit for closure purposes. In addition, the Facility includes a 3,000-gallon lime storage tank used solely for processing chemical storage; the lime tank is not a waste management unit but is addressed as part of closure activities.

Total facility closure will occur concurrently for all units. Closure activities will begin no later than 30 days after the final receipt of waste. No additional waste will be accepted after the final receipt date.

Upon initiation of closure, all residual septage, wash water, and other liquids contained within the frac tanks, lime tank, and associated piping and equipment will be fully drained. All liquids will be transported off-site for disposal or land application at TCEQ-approved facilities. The frac tanks, lime tank, and associated processing equipment will be decontaminated in accordance with the approved Closure Plan and subsequently removed from the Facility and transported off-site for disposal, recycling, or reuse at an appropriate non-MSW location.

Closure activities will also include inspection of the processing area, confirmation that no waste or waste residues remain on-site, and stabilization of the site. The processing building, concrete pad, and associated infrastructure may remain in place, as no waste will remain on-site following closure.

All closure activities will be completed in accordance with the approved Closure Plan within 180 days following initiation of closure activities. Completion of closure will be documented and submitted to the TCEQ in accordance with applicable regulatory requirements.

## 5.4 Closure Documents and Inspection 330.457 (f)(6)

Following completion of closure activities, the facility will submit all required documents. Once received, an inspection report will be conducted from the agency's regional office to verify proper closure of the facility according to the approved closure plan.

## **PART III NOT APPLICABLE SECTIONS**

### **30 TAC §330.63(f)(7)(A)**

All waste handling and processing activities will occur within an enclosed and bermed area to prevent discharge. No stormwater will come into contact with the process area due to the cover.

### **30 TAC §330.457(f)(3)**

This regulation applies to landfill units undergoing closure. The proposed facility is a Type V liquid waste processing unit and does not include any landfill components. Therefore, the erosion layer requirement under §330.457(f)(3) is not applicable.

### **30 TAC §330.457(f)(4)**

The facility does not include landfill disposal areas and will not require a final cover system as described in §330.457(f)(4). All waste is processed and transferred off-site for disposal. As such, this regulation is not applicable.

**30 TAC §330.457(f)(6)** The facility does not operate any landfill units and therefore does not require a final cover system. Waste is managed in enclosed tanks and containers, and no landfilling occurs onsite. Accordingly, §330.457(f)(6) is not applicable.

# Type V Liquid Processing Registration Application, Part III

## Austin County Waste Solutions

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### **PART III - FIGURES**

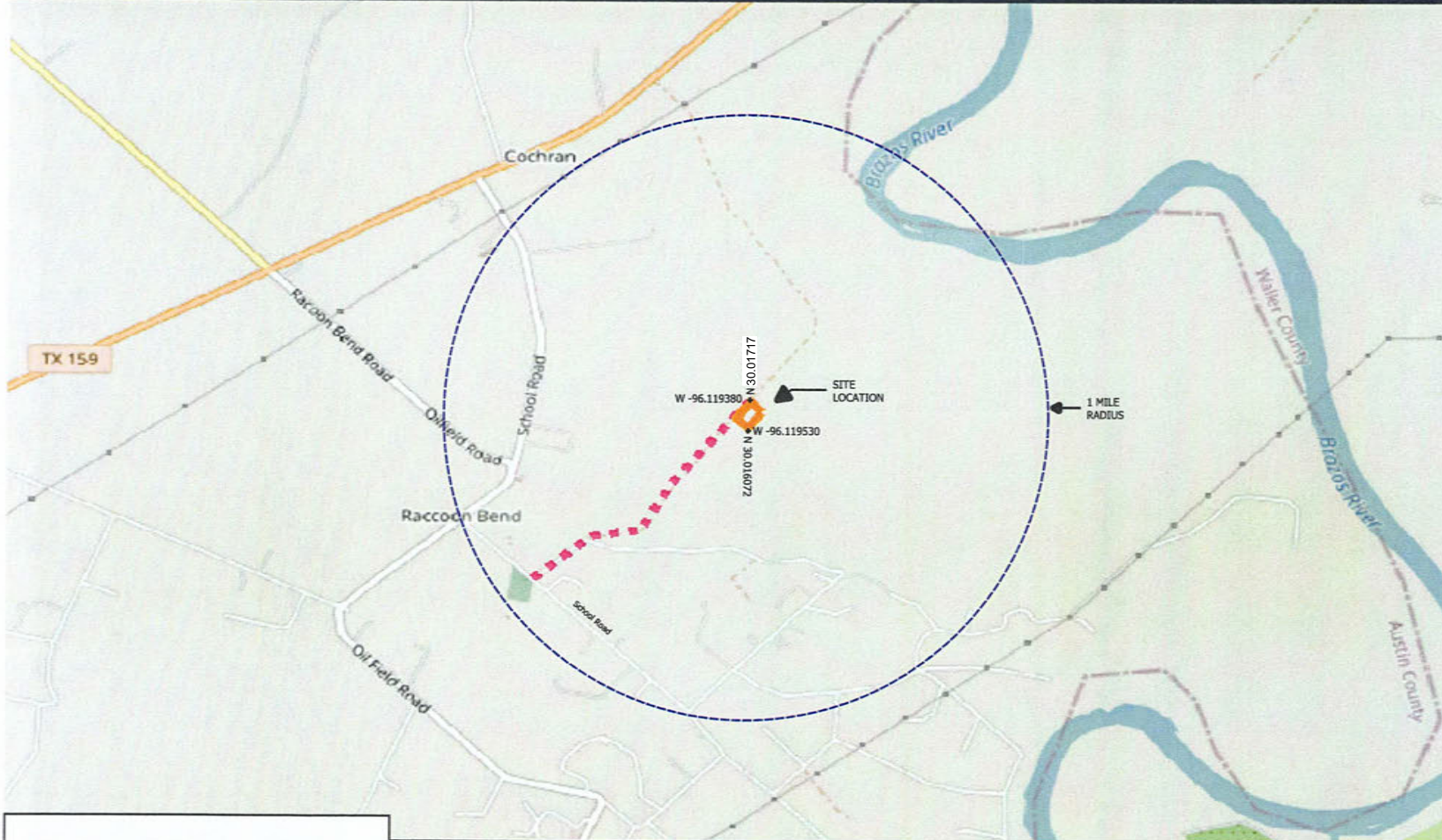
**III- 1** ACWS Site Location Map

**III- 2** Aerial Map

**III- 3** General Process Flow Schematic

**III-4** Detail of Processing Area Structure

# Austin County Waste Solutions- Site Location Map



Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:



*7/10/25*

Title: Site Location Map  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

Completed by: BMG Date: 1/02/25

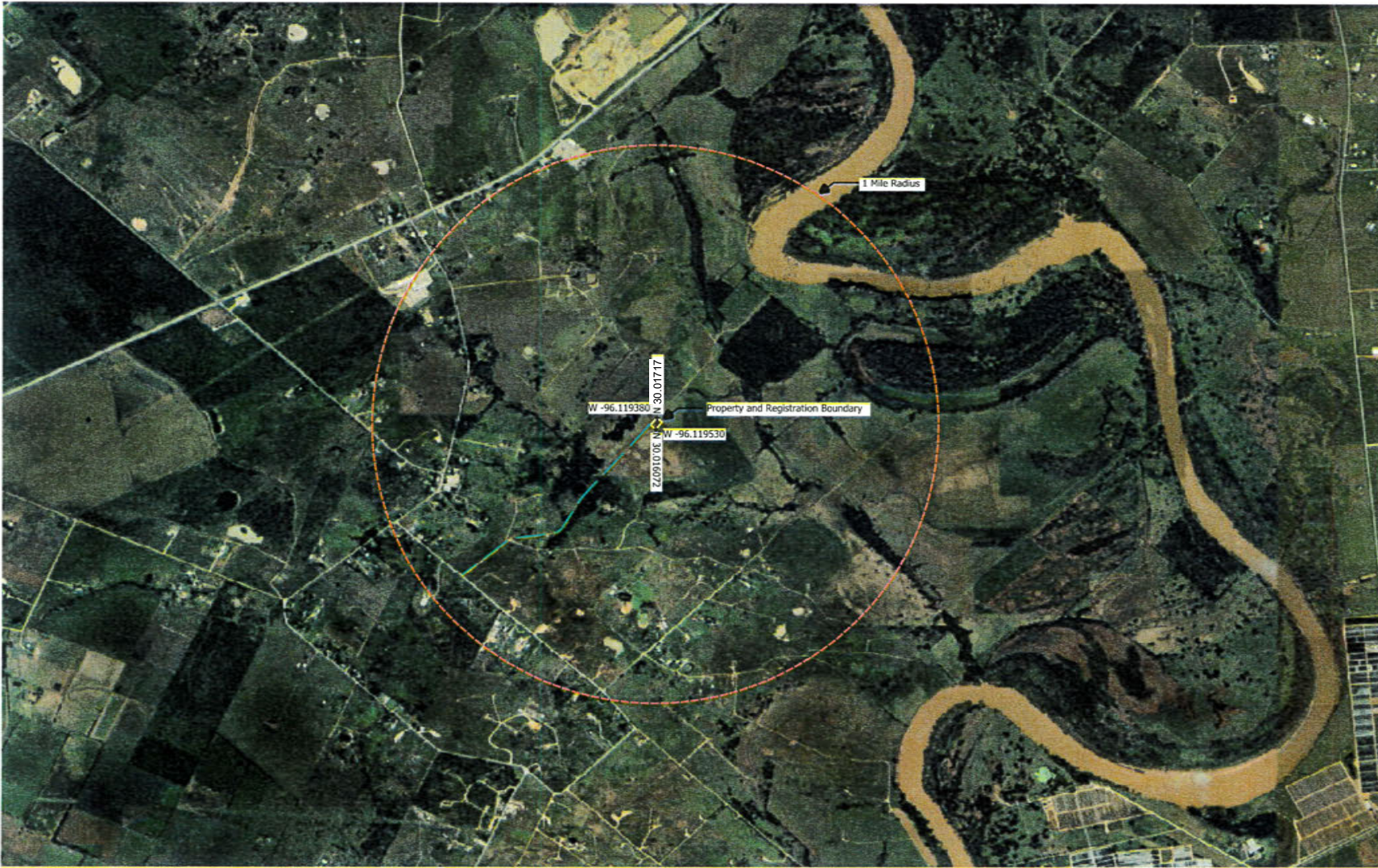
Prepared by: BMG Scale: AS SHOWN

Revised:  
 File:  
 ACWS Liquid Processing  
 Facility- Site Location  
 Map.pdf

Figure  
**III-1**



REFERENCE(S)  
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP.  
 DOWNLOADED FROM [https://www.txdot.gov/apps/statewide\\_mapping](https://www.txdot.gov/apps/statewide_mapping)



Legend:	
	Property and Registration Boundary
	Access Road
	1 Mile Radius

Seal:

F-10131  
11/18/25

Title:  
**Aerial Map**  
AUSTIN COUNTY WASTE SOLUTIONS  
Type V REGISTRATION APPLICATION  
Austin County, Texas

Prepared for:  
**7 R Solutions, LLC**  
Completed by: BMG Date: 01/02/25  
Prepared by: BMG Scale: AS SHOWN

Revised:	Figure: <b>III-2</b>
File: ACWS Liquid Processing Facility- Aerial Map.pdf	

REFERENCE(S)  
BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.



PROCESS	PROCESS DESCRIPTION/DETAILS
Receiving of Lime Slurry	Bulk lime slurry is received in from an approved supplier. Weight and pH is monitored upon receiving. This information is then transferred into our data base.
Bulk Slurry Lime Storage	Bulk lime slurry is temporarily stored in an approved holding tank for the lime stabilization treatment of domestic septage.
Receiving of Domestic Septage	Domestic septage will be delivered to the facility by customer pump trucks. A manifest will be provided by driver and all paperwork will be reviewed before product can be received in.
Septic Waste Tank	The septage will be pumped into facility via customers pump truck into the Facility's Septic Waste Tank. A flow meter will be used to measure gallons/per minute into the tank. All information will be entered into our database.
BAR(A) Screening	A bar screen (1/2 inch, carbon steele) at the top of the Facility's Septic Waste Tank is used to remove trash and other debris greater than 1/2 inch as septic flows into the Septic Waste Tank. The trash and other debris is manually removed from the top of the BAR (A) Screen once full.
Dumpster	The trash and debris manually removed from the top of the BAR (A & B) screens are placed into a dumpster, which is managed by a contracted waste company.
TCEQ Approved Landfill	The contracted waste company disposes of the septic waste and debris at a TCEQ-approved landfill
Transfer of Waste	Electric pumps will then move the septic waste through an additional bar screen and into the Pro



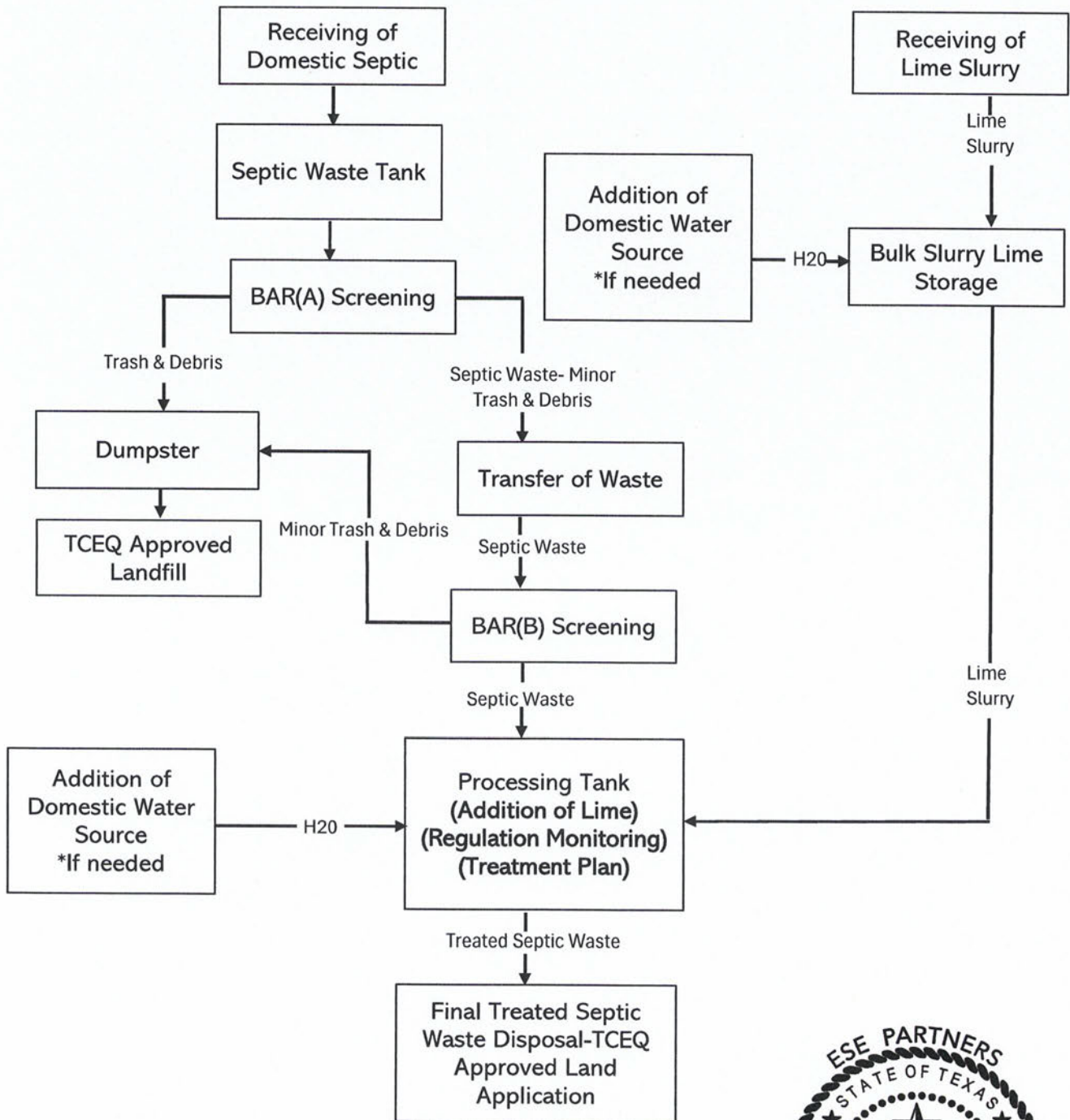
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<p><b>BAR(B) Screening</b></p>	<p>A bar screen (1/4 inch, carbon steel) at the top of the Facility's Processing Tank is used to remove remaining minor trash and other debris greater than (1/4 inch) as septic flows into the Processing Tank. The remaining minor trash and other debris is manually removed from the top of the BAR (B) Screen once full and also placed in the dumpster for disposal by a contracted waste company and the waste company hauls it to a TCEQ Approved Landfill.</p>
<p><b>Processing Tank (Addition of Lime) (Regulation Monitoring) (Treatment Plan)</b></p>	<ul style="list-style-type: none"> <li>● Addition of Lime- Slurry lime is added to domestic septage for lime stabilization to properly neutralize sewage odors. The lime is pumped into processing tank with domestic septage and re-circulated via pumps for blending.</li> <li>● A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes. <b>*This is a requirement.*</b></li> <li>● Treatment Plan- If pH is too low and fails to meet above standard, more slurry lime must be added. This corrective action will be documented.</li> </ul>
<p><b>Addition of Domestic Water Source *If needed.</b></p>	<p>Water is added if needed at two processing points (Bulk Slurry Lime Storage and at Processing Tank) as a further processing aid.</p>
<p><b>Final Treated Septic Waste Disposal-TCEQ Approved Land Application</b></p>	<p>Once treated septic waste pH meets listed requirements, the treated septic will be pumped onto a TCEQ approved BFU (Beneficial Land Unit) site.</p>





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## Type V Liquid Processing Registration Application, Part III

### Austin County Waste Solutions

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#### **PART III – ATTACHMENTS**

IIIA Closure Plan

IIIB Closure Cost Estimate

**Type V Liquid Processing Registration Application, Part III**  
**Austin County Waste Solutions**

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**PART III – ATTACHMENTS**

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**Closure Plan**

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## **1. Introduction** 30 TAC §330.451

The applicability of closure and post-closure requirements in the 30 TAC Subchapter K is to all municipal solid waste (MSW) landfill units or MSW facilities as defined in §330.5.

Per §330.5(a)(3), an MSW facility – Type V is a solid waste processing facility that include processing plants that transfer, incinerate, shred, grind, bale, salvage, separate, dewater, reclaim, and/or provide other storage or processing of solid waste. The Austin County Waste Solutions Facility is classified as a municipal solid waste facility under this definition.

The following Closure Plan for the facility has been prepared in accordance with the Closure Requirements for Municipal Solid Waste Storage and Processing Units.

## **2. Closure Requirements**

The following sections of the Closure Plan summarize the steps by the Facility to ensure compliance with the closure requirements for the certifications of final Facility closure 30 TAC §330.461.

### **2.1 Notifications** 30 TAC §330.461(a)

No later than 90 days prior to initiating final closure, 7 R Solutions, LLC will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the Facility, provide public notice for final Facility closure. This notice will include the name, address, and physical location of the facility, the registration number, and the last day of intended receipt of materials at the Facility. The Facility will also make available an adequate number of copies of the approved closure plan for public access and review. The owner or operator will also provide written notification to the executive director (ED) of the TCEQ no later than 90 days prior to the intent to close the Facility and place this Notice of Intent in the Facility's operating record.

### **2.2 Signage and Access Control** 30 TAC §330.461(b)

Upon notification to the ED, the Facility will post a minimum of one sign at the main entrance and all other frequently used points of access for the Facility notifying all persons who may utilize the Facility of the date of closing for the entire Facility and the prohibition against further receipt of waste materials after the stated date. Further suitable barriers at all gates or access points will be installed to adequately prevent the unauthorized dumping of waste at the closed Facility.

### **2.3 Implementation of Closure Plan** 30 TAC §330.459(a)

During decontamination, all wash water generated from cleaning the Processing Tanks, Waste Receiving Tanks, trash screens, and associated equipment is fully captured and contained in transport trucks. Wash water will be taken to a TCEQ approved disposal facility. A safe, EPA

approved hydrogen peroxide solution will be introduced into the pressure washer during cleaning to provide additional surface disinfection of equipment and tanks prior to collection of wash water. Trash and solids removed during cleaning and processing are sorted for disposal at a TCEQ authorized solid waste landfill. All decontamination activities occur within the covered, bermed processing area, preventing spills and environmental exposure. This approach ensures that all liquids and solids generated during decontamination are properly treated, staged, if necessary (up to seven days per 30 TAC §312), and safely managed, maintaining compliance with 30 TAC §§312 and 330 and preventing public health hazards or nuisances.

## **2.4 Waste and Material Removal and Disinfection** 30 TAC

§330.459(b)

High-pressure washers are utilized during decontamination to physically remove residual septage, solids, and debris from Processing Tanks, Waste Receiving Tanks, trash screens, and associated equipment. While effective for cleaning, high-pressure washing alone is not recognized as a method for disinfection, as it does not reliably inactivate pathogens or bacteria. Disinfection is achieved through chemical treatment: wash water collected during decontamination is treated with lime to raise the pH to 12, providing pathogen reduction in accordance with regulatory requirements. Additionally, a safe, EPA-approved hydrogen peroxide solution will be applied through the pressure washer to provide supplemental surface disinfection prior to collection of wash water. This combined approach ensures that all liquids and surfaces are effectively disinfected, while solids are handled in accordance with land application requirements, maintaining compliance with 30 TAC §§312 and 330 and preventing public health hazards or nuisances.

## **2.5 Evidence of Release** 30 TAC §330.459(c)

The facility and its operations are designed to minimize any releases by the facility. However, if there is evidence of a release from the facility, the ED of the TCEQ may require an investigation into the nature and extent of the release and an assessment of measures necessary to correct an impact to groundwater. Any waste that is not readily identifiable as domestic septage will be sampled, tested, and classified. Verification, re-sample and laboratory analyses will be performed, as necessary.

## **2.6 Combustible Material** 30 TAC §330.459(d)(1) and (2)

The facility will not accept combustible material.

## **3. Certification of Final Facility Closure** 30 TAC §330.461(c)

The following submittals will be made to the executive director of the TCEQ by registered mail within 10 days after the completion of all final closure activities for the Facility. The owner or operator will submit for review and approval, a certification, signed by an independent licensed professional engineer, verifying that final Facility closure has been completed in accordance with the approved closure plan. The submittal will include all applicable documentation necessary for certification of final Facility closure. The owner or

operator will submit a request for voluntary revocation of the Facility registration in accordance with 30 TAC §330.461(c)(3) and place a copy in the Facility's operating record. Per §330.457(f)(6), following receipt of the required final closure documents, as applicable, the commission's regional office will conduct an inspection and provide a report verifying proper closure of the Facility according to the approved Closure Plan before termination of operation and closure of the Facility will be acknowledged and the Facility deemed properly closed.

#### **4. Post-Closure Land Use** 30 TAC §330.63(b)

All wastes and waste residues will be removed from the Facility upon closure. At the time of closure, the ED will be provided with documentation of waste removal and a request will be made that there be no restrictions to the post-closure use of the Facility related to its previous use as a municipal solid waste liquid process facility.

**Type V Liquid Processing Registration Application, Part III**  
**Austin County Waste Solutions**

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**PART III – ATTACHMENTS**

**Attachment IIIB**  
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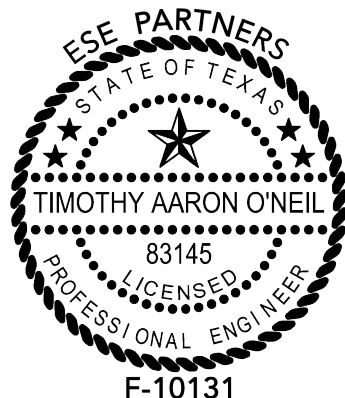
**Tables**

**Table IIIB-1 Closure Cost Estimate**

**Table IIIB-1  
 Closure Cost Estimate – Austin County Waste Solutions  
 Type V Liquid Processing Facility**

<b>Item No.</b>	<b>Closure Activity</b>	<b>Basis of Estimate</b>	<b>Estimated Cost (\$)</b>
1.	Project management & coordination	Third-party contractor (lump sum)	\$750
2.	Drain and remove residual septage and liquids	63,000 gallons @ \$0.42 per gallon; commercial hauling and disposal at a TCEQ-approved facility	\$26,480
3.	Pressure washing and decontamination	High-pressure washing of three frac tanks, one lime tank, and screens (one full day work crew)	\$3,000
4.	Tank loading and removal	Third-party equipment and labor to remove three frac tanks and one lime tank intact	\$2,000
5.	Off-site transport of tanks	Transport beyond facility boundary using commercial equipment	\$1,000
6.	Professional engineer closure certification	Independent licensed professional engineer	\$600
7.	Site inspection, documentation, and demobilization	Final site verification, record preparation, and contractor demobilization	\$1,170
		<b>Total Estimated Closure Cost</b>	<b>\$35,000</b>

\*\*The closure cost estimate assumes third-party performance of all closure activities, regardless of owner-performed capabilities, and reflects the maximum anticipated cost necessary to complete closure in accordance with 30 TAC §330.505.



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# **1. Closure Cost Estimate** 30 TAC §330.505

## **1.1 Introduction**

The Closure Cost Estimate has been prepared in accordance with 30 TAC §330.505. Current TCEQ rules do not require post-closure maintenance for the facility.

The estimated cost for closure is \$35,000 in 2025 dollars.

## **1.2 Description of Closure Cost Estimate Activities** §330.63(j) Chapter 37, Subchapter R

A copy of the financial assurance will be submitted to the TCEQ within sixty days prior to the receipt of waste under this Registration Application (RA). A closure cost estimate for the Facility is provided in Table III B-1. The closure cost estimate assumes third party closure of the Facility including removal and disposal of two days of waste received at Facility at the maximum daily volume anticipated. Decontamination of Waste Storage Processing structure (WSPS) and post-processing area will be conducted. The cost closure estimate assumes third party rental of all equipment for closure purposes. It is understood that the cost estimate and financial assurance must be increased if conditions change which increase the closure cost during the life of the Facility. Also, the value of the cost closure estimate must be annually adjusted for inflation per 30 TAC §37.131, and the value of this adjustment will be provided to the TCEQ within thirty days after the annual anniversary date of the insurance of the registration document for the Facility. Additionally, it is understood that financial assurance must be maintained until closure is approved by the executive director (ED). A reduction in the closure cost estimate and the amount of financial assurance, in accordance with 30 TAC §330.505(a)(4), may be applied for provided written detailed justification for the closure cost estimate and the reduced amount of financial assurance is submitted to the ED.

### **1.2.1 Cost Estimate to Closure Recycling Facility Stores Combustible Materials Outdoors** §330.505(a)(1)

The facility will not accept combustible material, therefore, §330.505(a)(1) is not applicable.

### **1.2.2 Closure Cost Estimate Equals Costs of Closure of Facility, Including Disposition of Maximum Inventories, Processed and Unprocessed Combustible Materials Stored Outdoors** §330.505(a)(2)(A)

The Closure Cost Estimate provided in Table III B-1 assumes disposal of two days of waste received at Facility at the maximum daily volume anticipated, and decontamination of the process area.

### **1.2.3 Closure Cost Estimate Based on Costs of Hiring a Third Party, and Per Cubic Yard and/or Short Ton Measure for Collection and Disposition Costs §330.505(a)(2)(B–C)**

The Closure Cost Estimate assumes third-party closure of the Facility including removal and disposal of two days of waste received at Facility at the maximum daily volume anticipated, and decontamination of the process area. The Closure Cost Estimate assumes third-party rental of all equipment for closure purposes.

### **1.3 Financial Assurance**

Continuous financial assurance coverage for closure must be provided until all requirements of the Closure Plan are completed and the site is determined to be closed in writing by the TCEQ. The estimated closure cost based on the above considerations is \$35,000 in 2025 dollars. A copy of the required documentation to demonstrate financial assurance shall be submitted prior to the new process and storage provisions of this permit amendment being implemented.

#### **1.3.1 Closure Cost Estimate & Financial Assurance to Be Increased During Active Life of Facility §330.505(a)(3)**

It is understood that the cost estimate and financial assurance must be increased if conditions change which increase the closure cost during the life of the Facility. Also, the value of the closure cost estimate must be annually adjusted for inflation per 30 TAC §37.131, and the value of this adjustment will be provided to the TCEQ within thirty days after the annual anniversary date of the issuance of the permit document for the Facility.

#### **1.3.2 Reduction in Closure Cost Estimate and Amount of Financial Assurance §330.505(a)(4)**

A reduction in the Closure Cost Estimate and the amount of financial assurance, in accordance with 30 TAC §330.505(a)(4), may be applied for provided written detailed justification for the Closure Cost Estimate and the reduced amount of financial assurance is submitted to the ED. For this reduction in the cost estimate and financial assurance will be considered a permit modification.

#### **1.3.3 Maintenance of Financial Assurance for Recycling Facilities Store Combustible Materials Outdoors §330.505(b)(1)**

It is understood that financial assurance must be maintained until closure is approved by the ED.

### **1.3.4 Maintenance of Financial Assurance until Closure is Approved**

§330.505(b)(2)

Additionally, it is understood that financial assurance must be maintained until closure is approved by the ED.

**MSW 43039**

Revised 4/4/26 NOD3

Tracking 31816673

# **TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART IV REPORT**

**Austin County Waste Solutions  
Type V Liquid Waste Processing Facility  
Bellville, Texas  
Austin County**

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Prepared by:

**7 R Solutions, LLC  
3655 Woodley Ln  
Bellville, Texas 77418**

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Intended for Permitting Purposes Only  
December 2024

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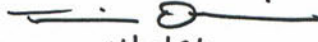
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## **1. Introduction to Part IV 30 TAC §330.65(a)**

The Processing Facility will be a Type V Liquid Processing Facility operated by Austin County Waste Solutions LLC. In accordance with Title 30 of the Texas Administrative Code (30 TAC) Chapter 330, Subchapter B, §330.65, Contents of Part IV of the Application, a Site Operating Plan (SOP) is being submitted for the Facility. Regulatory citations noted throughout the SOP narrative refer to corresponding sections of the 30 TAC.

Per §330.65(a), this SOP has been prepared based on 30 TAC Chapter 330, Subchapter D & E, relating to Operational Standards for Municipal Solid Waste Landfill Facilities and Operational Standards for Municipal Solid Waste (MSW) Storage and Processing Units. The plan will provide general instruction to facility management and operating personnel for day-to-day operations of the facility. The SOP must be retained during the active life of the Facility. This document provides an operating guide for Facility management to maintain the Facility in compliance with the applicable regulatory requirements of the Texas Commission on Environmental Quality (TCEQ) or appropriate successor agency, to protect human health and the environment, and to prevent nuisances.

### **1.1 Reporting Requirements 30 TAC §330.675**

Failure to achieve the minimum 10% recycled rate in any two quarters in a one-year period will cause a change in the facilities status and require the owner to obtain a permit to continue Facility operations.

The Facility shall submit an annual report to the Executive Director (ED) by November 10 of each year summarizing the recycling activities and percent of incoming solid waste that was recycled during the past calendar fiscal year. The fiscal year begins on September 1 and concludes on August 31. The report shall be a form furnished by the ED or reproduced from a form furnished by the ED. Reports may also be submitted by an electronic form or format furnished by the ED. A new form will be furnished by the ED annually, prior to the due date. Reports shall include, at a minimum:

- Facility operator's name, address, and phone number;
- Permit number, permit application number, or permit number;
- Facility type, size, and capacity;
- Volume of waste received reported in gallons received at the unloading dock;
- Percent solids (2%);
- Method of determining the percent solids that have been processed, disposed, and recycled or reused;
- Method used to achieve at least 10% recycling or reuse of incoming materials; and

Reconciliation of volume of waste with amounts documented on manifests, shipping documents, and/or trip tickets, and indicate where the recyclable material was taken for recycling.

### **1.2 Other Requirements 30 TAC §330.65(d)**

The facility has applied for a no exposure (TPDES) Stormwater General Permit no. TXRNECL44. Since the proposed process facility will not perform vehicle or equipment maintenance activities, vehicle or equipment rehabilitation, mechanical repairs, painting, fueling, lubrication, or cleaning within the registration boundary of the Facility, the site is not subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit, as required by §402 of the federal Clean Water Act.

## **2. Waste Acceptance and Analysis 30 TAC §330.203**

### **2.1 Waste Source and Characteristics 30 TAC §330.203(a)**

The Process Facility will be authorized to receive permitted wastes as defined below. Domestic Septage will be the only waste accepted at the facility. Inorganics will be screened out and transported to a TCEQ approved landfill. Screened septage will be treated for lime stabilization and pH will be monitored. All processed septage will be recycled for beneficial land use.

It is expected that a typical unit of non-recyclable solid waste generated by the Facility would, at a maximum, remain on Facility for approximately seven days. The average length of time solid waste will remain on Facility is seven days. This (debris) is stored in a small dumpster which is scheduled to be picked up weekly and transported to an off-site TCEQ permitted landfill.

#### **2.1.1 Acceptable Wastes**

The facility will only accept Domestic Septage.

In accordance with 30 TAC 330.203(a), the source of these waste streams shall be from residential homes and commercial businesses that have an aerobic or conventional septic system.

#### **Limiting Parameters**

There are no limiting parameters such as TPH, metal concentrations, etc. for this application for a Type V Process Facility.

#### **Special Waste Receipt**

This Facility will not accept special waste. Therefore, this section does not apply to the Facility.

#### **Receipt of Industrial Waste**

This Facility will not accept industrial waste. Therefore, this section does not apply to the Process Facility.

### **2.1.2 Prohibited Wastes**

The Facility will not accept the following wastes:

- Household garbage;
- Putrescible wastes;
- Special wastes;
- Special waste from health-care-related facilities;
- Municipal waste water treatment plant sludges, other types of domestic sewage treatment plant sludges, and water-supply treatment plant sludges;
- Grease and grit trap wastes;
- Wastes from commercial or industrial waste water treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 Code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR, §261.33(e) or (f);
- Slaughterhouse wastes;
- Dead animals;
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5);
- Discarded materials containing asbestos;
- Incinerator ash;
- Soil contaminated by petroleum products, crude oils, or chemicals;
- Hazardous waste;
- PCB waste;
- Radioactive waste;
- Unknown chemical or containerized waste;
- White goods containing chlorinated fluorocarbons (CFCs);
- Used oil filters;
- Used oil;
- Class 1 non-hazardous industrial waste;
- Class 2 non-hazardous industrial waste; and
- Regulated Asbestos Containing Materials (RACM).

## 2.2 Waste Acceptance Rate, Storage, and Recovery 30 TAC §330.203(b)

### 2.2.1 Waste Acceptance Rate

Considering the average gallons of the incoming waste stream of approximately 3,500 gallons per truck and the average of 2,000 gallons domestic septage waste generated per household, the population equivalent served by the Facility is calculated as follows:

Population Equivalent = ((63,000 Gallons x 8.34 lbs per gallon) Daily / (2000 Gallons x 8.34 lbs per gallon per household/ day) x 30 lbs of solids debris/grease per household= 945.6 lbs daily of debris

339,200 lbs of Septage/ 600 lbs of debris= 358.6 % recoverable by weight to recycle in beneficial land use.

The Facility will recover a minimum of 10% or more by weight of the incoming waste stream. The recovered waste streams (solid debris/grease) will be sent to a TCEQ approved landfill for disposal.

Treated septage will be processed and land applied daily. In the event of heavy rainfall and saturated soil the facility may stage the septage for no longer than 7 days. Unprocessed domestic septage will not be allowed to remain in tanks for more than 72 hours.

#### 2.2.1.1 Waste Acceptance by Waste Type

The waste amounts by waste types listed in Table IV-1 are only estimates and are not intended to be a limitation or constraint on waste acceptance at the site.

**Table IV-1. Waste Acceptance by Waste Type**

Waste Type	Estimated Daily Amount (as a percentage of waste)
Domestic Septage	98%
Trash/Inorganics	2%
Total Waste	100%

## 2.2.2 Waste Storage and Processing

At the Facility, staging refers to the temporary placement of septage in the processing system immediately upon receipt, prior to or during treatment, to allow for proper stabilization and pathogen reduction. All domestic septage is offloaded directly from transport vehicles into the waste receiving tanks (WRT-A or WRT – B) and then immediately transferred into the associated processing tanks (PT-A or PT-B), where lime is added and mixed continuously to achieve and maintain a pH of 12 for 30-45 minutes. This constitutes instantaneous processing rather than accumulation. Unlike storage, which is defined in 30 TAC 330.3(157) as the holding or accumulation of waste for any temporary period without active treatment, the facility does not allow septage to remain idle or untreated. Therefore, the operation is properly classified as staging associated with immediate processing, not storage, consistent with the intent of 30 TAC 312.8 and 330.63.

The facility's maximum liquid staging capacity of 42,000 gallons per day is based on the volume of liquid that the 7 R Ranch land application fields can accept under 30 TAC Chapter 312 requirements for daily application, assuming operation seven days per week. While the Facility is not open seven days per week, the system could technically process more than 42,000 gallons per day; however, the operational cap is intentionally set at 42,000 gallons to remain within planned processing limits and ensure compliance with field capacity includes the processing tanks only, as the waste receiving tanks are used solely for immediate transfer and do not contribute to long-term holding. This ensures that even when both trains (Train A: WRT-A + PT-A, Train B: WRT-B + PT-B) are in operation, the system remains within design limits.

The facility is designed to receive and process up to 42,000 gallons of domestic septage per day, reflecting the operational cap set to match the processing and field application capacity. Incoming septage is continuously processed upon receipt in the two-train system, stabilized with lime and discharged to the TCEQ-approved 7 R Ranch disposal fields, ensuring compliance with staging rules, pathogen control, and environmental protection requirements.

## 2.2.3 Waste Recovery Rate 30 TAC § 330.203(b) & 30 TAC §330.9(e)

Types of materials that the Facility will recover and recycle include, but are not limited to, the following:

- Domestic Septage

### **Unusable and Non-Recycled Materials**

The following materials are expected to be unusable and/or non-recycled, once the waste stream has been processed through the Facility:

- inorganic waste
- All Other Wastes – All other wastes remaining after the waste stream has been processed by the Facility and is not categorized as either of the above categories, will be transported off-site to a landfill within 50 miles from the Facility.

### **2.2.3.1 Waste Recovery Quarterly Report 30 TAC §330.9(g)(1)**

The facility will provide quarterly reports showing the recovery percentages of the incoming waste for each quarter. The reports will include volumes of wastes received and a summary of wastes processed, disposed, recycled or reused.

Domestic septage processed at the facility typically contains 2-6% total solids, with an average of about 4%, based on values reported by the U.S. EPA (EPA/625/R-92/013, 2002) and Metcalf & Eddy (Wastewater Engineering, 5th Ed.). To verify site-specific conditions, representative samples of incoming septage will be analyzed for percent total solids (TS) using Standard Methods 2540 G or an equivalent method at a NELAP- certified laboratory. The percent solids results, and the analytical method used will be included in the Facility's Quarterly Report, in accordance with 30 TAC 330.9(f)(1).

To achieve the required 10% recycling or reuse, stabilized septage solids will be beneficially applied to the 7 R Ranch land application fields as a soil amendment under 30 TAC Chapter 312 requirements, thereby meeting the recycling/reuse goal through controlled agricultural application that recycles nutrients and organic matter back into the soil.

### **2.2.4 Method Of Sampling & Analysis 30 TAC §330.203(c)(1)-(2)**

Domestic Septage will be tested by a State Certified Laboratory. A TCLP will be performed annually to test for hazardous waste. Records of sampling and analysis will be maintained for a three year period. The facility will sample for benzene, lead and TPH at the start of operation and annually thereafter.

## **3. Facility Operation Requirements**

### **3.1 Facility-Generated Waste 30 TAC §330.205(a)**

#### **3.1.1 Characteristics and Concentrations of Wastes Generated by Facility 30 TAC**

##### **§330.205(a)**

The waste generated by the facility will be screened inorganics. The intended destination of the solid inorganic waste generated by the Facility (if any) is an authorized solid waste landfill. The Facility will maintain documentation in the operating record that all wastes leaving the Facility are being adequately managed by other licensed or permitted facilities. All wastes generated by the Facility will be processed or disposed of at an authorized solid waste management facility.

#### **3.1.2 Manage Waste 30 TAC §330.205(b)**

All wastes generated by the Facility will be processed or disposed of at an authorized solid waste management facility. Screens will be cleaned at the end of each operating day or multiple times per day if needed. Screens will be designed to be removed with a front-end loader and held over the dumpster for cleaning.

### **3.1.3 Manage Wastewater 30 TAC §330.205(c)**

Sanitary wastewater generated onsite from office restrooms and sinks is collected in a 500-gallon sanitary lift station equipped with a grinder pump. The sanitary lift station receives only onsite-generated domestic sanitary wastewater and does not receive hauled septage or other offsite wastes. Sanitary wastewater is pumped as needed into Waste Receiving Tank WRT-A or WRT-B, depending on train availability, where it is managed within the permitted liquid processing system and processed with incoming septage loads. No discharge of sanitary wastewater to the ground surface, subsurface, or waters of the state occurs.

Wash water generated from routine cleaning of the processing area is managed separately from stormwater and is collected and removed using a vacuum truck. The collected wash water is returned to WRT-A or WRT-B and managed within the permitted liquid processing system on an as-needed basis. Wash water is not discharged to soil or surface waters.

This operational approach ensures that all wastewater generated at the Facility is contained, managed, and processed within the permitted system in accordance with 30 TAC §330.205(c).

### **3.1.4 Design and Operation of Facility for Produced Sludges 30 TAC §330.205(d)**

No sludges will be produced by the Facility; therefore, this section is not applicable.

### **3.1.5 Contaminated Water Management-Water pollution Control 30 TAC §330.207(a)**

The Facility will take the necessary steps to control and prevent the discharge of contaminated water from the Facility.

Surface drainage in and around the Facility will be controlled to minimize surface water running onto, into, and off the working areas. All liquid processing will be conducted within the facility process area (see Figures IV-3 and IV-4).

Potentially contaminated runoff is minimized by covering the processing area in this matter. All the process tanks will be enclosed. Polluted wash water generated by the Facility operations will be collected using vacuum trucks or similar equipment on an as-needed basis, and unloaded into the process trash tanks for processing.

### **3.1.6 Collect and Manage Contaminated Water 30 TAC §330.207(b)**

Surface drainage in and around the Facility will be controlled to minimize surface water running onto, into, and off the process facility.

Potentially contaminated runoff is minimized by covering the processing area in this matter. All of the process tanks will be enclosed. Polluted wash water generated by the Facility operations will be collected using vacuum trucks or similar equipment on an as-needed basis, and unloaded into the process trash tanks for processing.

### **3.1.7 Clay or Synthetic liner Collection Units under 30 TAC §330.331(b) and 30 TAC §330.207(b)**

Since this is an application for a Type V Liquid Processing Facility, this section is not applicable.

### **3.1.8 One Foot of Freeboard for 25-Year, 24-Hour Rainfall Event for Contaminated Water 30 TAC §330.207(b)**

The process facility is designed to contain water that may have contacted waste. Since the process is under a covered structure, it is not necessary to install a trench and sump for containment of the 24-hour, 25-year rainfall event with 1 foot of free board.

### **3.1.9 Use of Leachate & Gas Condensate is Prohibited 30 TAC §330.207(d)**

The Facility will not discharge into a septic system.

### **3.1.10 Septic System 30 TAC §330.207(d)**

Hauled septage and process wastewater are not discharged to or treated in a septic system. A small onsite septic tank is used solely to collect sanitary wastewater generated by facility personnel and functions only as a lift station. Sanitary wastewater is pumped directly into the permitted liquid processing system and is not treated or disposed of via a septic system. Accordingly, the requirements of 30 TAC §330.207(d) are not applicable.

### **3.1.11 Discharge Contaminated Water after Approval under Texas Pollution Control Discharge Elimination System Authority 30 TAC §330.207(e)**

The Facility has obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part II, Attachment II G**.

### **3.1.12 Acknowledgement Discharge Wastewater Comply with 40 Code of Federal Regulations Part 403 30 TAC §330.207(f)(1)**

The Facility obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. This Facility will not discharge any Wastewater under the Texas Water Code, Chapter 26 and will comply with the requirements of 330.207(f). A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part II, Attachment II G**.

### **3.1.13 Effluent Standard for Oil and Grease Concentration 30 TAC §330.207(g)**

No grease, oil, or sludge will be accepted by the Facility; therefore, this section is not applicable.

### **3.1.14 Prohibited Storage Units 30 TAC § 330.207(h)**

Lagoons, open-top storage tanks, open vessels, and underground storage units are prohibited at the facility. The facility will have no storage and will be covered.

## **3.2 Storage Requirements**

### **3.2.1 Solid Waste Storage 30 TAC §330.209(a)**

The Facility is authorized to receive permitted wastes as identified in Section 2.1.1. Trucks transporting septage proceed through the Facility's gated entrance off School Road and traverse the gravel driveway until they reach the process area. A schematic of the process area is shown on Figure IV-3. All septage received and processed at the Facility will not be stored. Septage will be screened and processed daily. The screened inorganics will be placed into a dumpster to be transported to a TCEQ approved landfill. Inorganic waste will be held for 7 days to a maximum of 14 days. The dumpster will be enclosed and located inside the covered processing area.

Trained personnel will monitor all incoming loads of septage waste and will be trained to become familiar with the rules and regulations governing the various types of waste that can or cannot be accepted by this Facility. Septage waste unloading will be limited to the concrete surfaced waste processing area.

### **3.2.2 On-Site Storage Area for Source Separated or Recyclable Materials 30 TAC §330.209(b)**

Septage will be processed and recycled for beneficial land application daily. The screened inorganics will be placed in a dumpster to be transported to a TCEQ approved landfill. Septage will not be stored at the facility.

### **3.2.3 Putrescible or Liquid Waste 30 TAC §330.209(c)**

Putrescible waste will go through the normal process. Upon entry to the receiving tanks, it will be screened for inorganics. Since putrescibles are organic, they will be treated with lime in the process tanks and pumped on our BLU Site.

## **3.3 Approved Containers**

### **3.3.1 Container Design 30 TAC §330.211**

The process facility will not accept food wastes, therefore, this section is not applicable.

### **3.3.2 Non-Reusable Containers 30 TAC §330.211(1)**

The process facility will not accept food wastes, therefore, this section is not applicable.

### **3.3.3 Reusable Containers 30 TAC §330.211(2)**

The process facility will not accept food wastes, therefore, this section is not applicable.

### **3.3.4 Emptied Containers 30 TAC §330.211(2)(A)**

The process facility will not accept food wastes, therefore, this section is not applicable.

### **3.3.5 Design Containers to Prevent Spillage/Leakage during Storage, Handling, and Transport 30 TAC §330.211(2)(B)**

The process facility will not accept food wastes, therefore, this section is not applicable.

### **3.4 Citizen's Collection Stations 30 TAC §330.213(a)-(b)**

The Facility does not serve as a Citizen's Collection Station. Therefore, the requirements of §330.213 do not apply to this Registration Application.

### **3.5 Stationary Compactors 30 TAC §330.215(1) and (2)**

The Facility does not have any stationary compactors; therefore, this section is not applicable.

## **4. Recordkeeping and Reporting Requirements 30 TAC §330.219**

### **4.1 General Requirements**

#### **4.1.1 Maintain Copy of Permit/Registration/Application in Site Operating Record 30 TAC§330.219(a)**

During the operating life of the Facility, the Operations Manager, Maintenance and Administrative Supervisors, or Maintenance and Administrative Supervisors designees will maintain a written Operating Record. Consistent with §330.219, copies of documents that are part of the approved permit process that are considered part of the Operating Record are listed in **Table IV-2**.

All information contained in the Operating Record will be made available during normal working hours for inspection by the ED of the TCEQ or his/her representatives. The Operating Record will be maintained at the Facility during Facility operations and will be made available for inspection by any officer, employee, or a representative of the TCEQ. Similar access to these records, plans, and data will be granted to duly authorized representatives of local governmental agencies acting under specific statutory authority with respect to this Facility (e.g., Austin County personnel).

#### **4.1.2 Operating Record 30 TAC §330.219(b) (1) – (7)**

The Facility, in accordance with §330.219(b), will promptly record and retain in the Operating Record for items listed in **Table IV-2**.

**Table IV-2. Operating Record – 30 TAC §330.219(b)**

Records to be Maintained in the Site Operating Record	Frequency	Rule Citation
MSW Registration No. *****	Once	§330.219(a)
Approved RA for MSW Registration No. *****	Updated as permit modifications are approved	§330.219(a)
SOP	As updated	§330.219(a)
Other required plans or related documents	As updated	§330.219(a)
Location restriction demonstrations	As updated	§330.219(b)(1)
Inspection records and training procedures	Per occurrence	§330.219(b)(2)
Closure plans and any monitoring, testing, or analytical data relating to closure requirements	As required	§330.219(b)(3)
Cost estimates and financial assurance documentation relating to closure	Annually	§330.219(b)(4)
Correspondence and responses relating to Facility operation, registration modifications, approvals, and technical assistance	Per occurrence	§330.219(b)(5)
Other documents specified in the registration or by the Executive Director)	As required	§330.219(b)(7)
Trip tickets as required by §312.145(b)(2)	Per occurrence (retained for 5 years)	§330.219(b)(8)
Dates, times, and durations of alternative operating hours	As required	§§330.219(g) and 330.229(d)
Inspection records and training procedures relating to fire prevention and Facility safety	As needed	§330.221(c)
Personnel training records and detailed job descriptions	As needed	§330.219(b)(2)
Records to justify on a quarterly basis that the relevant percentage of the incoming waste is processed to recover recycled products	Quarterly and Annually	§330.219(b)(9)
Load inspection records	Per occurrence	§330.203
Personnel operator licenses	As needed	§330.219(b)(2)

All Site inspection and maintenance documentation – Facility Inspection and Maintenance Schedule	As required	§330.223 – §330.243
A record of each unauthorized material removal event	Per occurrence	§330.225
Documentation that all wastes leaving the Facility are being adequately managed by other licensed or permitted facilities	As needed	§330.205(a)
An as-built set of construction plans and specifications	After completion of construction	§330.219(a)

#### **4.1.3 Signatory for Report 30 TAC§330.219 (c)(1)(A) – (C)**

The Facility personnel will sign all reports and other information requested by the ED as described in §305.44(a) or by an authorized representative of the Facility. For a person to be an authorized representative of the Facility, the authorization must:

1. Be made in writing as described in §305.44(a),
2. Specify either an individual or a position having responsibility for the overall operation of the Facility, and
3. Submitted in writing to the ED.

If an authorization is no longer accurate because of a change in individuals or position, a new authorization must be submitted to the ED prior to or with any submittal to be signed by an authorized representative. Any person signing a report will make the certification included in §305.44(b).

#### **4.1.4 Submit Authorization to Sign No Longer Accurate New Authorization 30 TAC§330.219 (c)(2)**

If an authorization is no longer accurate because of a change in individuals or position, a new authorization must be submitted to the ED prior to or with any submittal to be signed by an authorized representative.

#### **4.1.5 Certification in 30 TAC §305.44(b) by Person Signing Report 30 TAC§330.219 (c)(3)**

Any person signing a report will make the certification included in §305.44(b).

#### **4.1.6 Annual Reporting 30 TAC §330.219(d)(2)-(3)(d)**

All lab testing results will be kept in the site operating record. Copies of the reports will be kept in the site operating record for 5 years.

#### **4.1.7 Notification 30 TAC§330.219 (e)**

The Facility, in accordance with §330.219(e), will furnish the Operating Record to the ED upon request and will be made available at all reasonable times at the Facility for inspection by the ED.

#### **4.1.8 Record Retention 30 TAC§330.219 (f)**

In accordance with §330.219(f), the Facility will retain all information contained within the Operating Record of the Facility and all plans required for the Facility for the life of the Facility until after certification of closure.

#### **4.1.9 Alternative Schedules 30 TAC§330.219 (g)**

The ED, in accordance with §330.219(g), may set alternative schedules for recordkeeping and notification requirements as specified in §330.219(g).

#### **4.2 Personnel Training Records**

Personnel training records will include the following information, at minimum:

- The job title for each position at the facility related to waste management and the name of the employee filling each job
- A written job description for each position related to waste management with education, or other qualifications, and duties of employees assigned to each position
- A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position related to waste management
- Records that document that the training or job experience required has been given to, and completed by, facility personnel.

Training records on current personnel must be kept until facility closure and training records on former employees must be kept for at least three years from the date the employee last worked at the facility.

### **5. Fire Protection 30 TAC §330.221**

Per §330.221, the following requirements must be met for proper fire protection at the facility:

- An adequate supply of water under pressure must be available for firefighting purposes.
- Firefighting equipment must be readily available.
- A fire protection plan shall be established, and all employees shall be trained in its contents and use. This fire protection plan shall describe the source of fire protection (a local fire department, fire hydrants, fire extinguishers, water tanks, water well, etc.), procedures for using the fire protection source, and employee training and safety procedures. The fire protection plan shall comply with local fire codes.

The fire protection plan will be discussed in **Section 5.1**.

#### **5.1 Fire Protection Plan 30 TAC §330.221(c)**

The following steps will be taken regularly by designated Site personnel to prevent fires:

- Open burning of waste is prohibited;

- Equipment used at the Facility will be routinely cleaned through the use of water or steam cleaners. The water or steam cleaning will remove waste and caked material which can cause equipment overheating and increase fire potential;
- Fuel spills will be contained and cleaned up immediately;
- Smoking is not allowed in the working areas of the Facility. Smoking is confined to designated areas only, away from the receiving area, fuel stations, and other fire-sensitive areas; and
- The Facility is equipped with at least two strategically placed fire extinguishers. Each fire extinguisher will be fully-charged and ready for use at all times. Each extinguisher will be inspected on an annual basis and recharged, as necessary. These inspections will be performed by a qualified service company, and all extinguishers will display a current inspection tag. Inspection and recharging will be performed following each use. At a minimum, the office and applicable equipment will have fire extinguishers.
- The on-site water is supplied by a private water well system at a minimum pressure of 40 psi. this water source will be adequate for most small fires; and
- On-site hoses.

The fire protection plan is in compliance with local fire codes.

### **5.1.1 Procedures in the Event of a Fire 30 TAC §330.221(c)**

The following general procedures will be taken in response to fires at the Facility:

1. Contact the Fire Department by calling 911. The City of Bellville Fire Department would respond if necessary;
2. Alert other Facility personnel;
3. Assess the extent of the fire, the possibility for the fire to spread, and alternatives for extinguishing the fire;
4. If it appears that the fire can be safely fought with available fire-fighting devices, attempt to contain or extinguish the fire until arrival of the Fire Department;
5. Upon arrival of the Fire Department, direct them to the fire, and provide assistance, if requested;
6. Do not attempt to fight a fire alone;
7. Do not attempt to fight a fire without adequate personal protective equipment (PPE);
8. Be familiar with the use and limitation of fire-fighting equipment; and
9. Fire-fighting methods include smothering the fire with soil, separating burning material from other waste, using on-site fire extinguishers, and the on-site water supplied by community water system. If detected soon enough, a small fire may be fought with a hand-held extinguisher. Fire extinguishers will be located at the main office and on major operating equipment i.e., tractor. For small fires, the fire area should be watered or otherwise controlled to ensure that the fire is out or does not spread to adjacent areas.

**Specific Fire-Fighting Procedures**

The following procedures will be followed in the event of a fire:

1. If a fire is observed on stationary vehicle or piece of equipment, the first priority will be worker safety and getting all personnel safely away from the fire.
2. If the fire is on moving equipment, if possible, the vehicle or piece of equipment should be brought to a stop at a location away from any fuel supplies, solid wastes, and/or other vehicles. The driver will shut off the engine, engage the brake, or use some other appropriate method to prevent subsequent movement of the vehicle. In extenuating emergency circumstances, a driver may abandon the vehicle before it is safely secure. The Facility's primary safety concern is worker safety.
3. If a small fire is discovered in the waste processing area,
  - a. An attempt to isolate the burning waste should be implemented quickly prior to attempting to extinguish the fire;
  - b. Apply water from the on-site source, and/or use the on-site fire extinguisher to attempt to fight the fire.
  - c. If any of these options are not possible or are considered unsafe, the area should be cleared of personnel and a path cleared for the Fire Department.

**5.1.2 Availability of Water for Firefighting Purposes 30 TAC §330.221(a)**

The on-site water is supplied by the community water system at a minimum of 40 psi. The water source will be adequate for most small fires.

**5.1.3 Fire Fighting Equipment 30 TAC §330.221(b)**

Fire-fighting equipment provided at the Facility includes fire extinguishers. A minimum of 2 fire extinguishers will be provided at the Facility. Fire extinguishers will be fully charged and ready for use at all times. Each extinguisher will be inspected and recharged, if necessary, as recommended by the manufacturer. A qualified service company will perform these inspections, and all extinguishers will display a current inspection tag. Inspection and recharging will also be performed following each use. At a minimum, the main building, and all heavy equipment and vehicles, will be equipped with fire extinguishers.

**5.1.4 Fire Protection Training 30 TAC §330.221(c)**

This training will involve the Operations Manager, Maintenance and Administrative Supervisors, and Equipment Operators. The purpose of the training is to review fire-fighting procedures, equipment, fire prevention methods, and PPE.

This training should help the Site personnel become familiar with the Facility operations and special techniques in preventing and minimizing the spread of fires. The following topics will be addressed:

- Fire Prevention;
- Fire Safety; and
- Fire Fighting Procedures; and
- Fire Extinguisher Use and Capabilities.

### **5.1.5 TCEQ Notification**

After any fire (related to waste management activities that cannot be extinguished within 10 minutes of discovery) occurs, the TCEQ regional office will be contacted. The notification to the regional office will include:

- Contacting by telephone as soon as possible, but no later than 4 hours following fire discovery, and
- Providing a written description of the cause and extent of the fire and the resulting fire response within 14 days of fire detection.

The Facility will provide the appropriate TCEQ regional office as much information as possible regarding the fire and fire-fighting efforts, as soon as possible after fire occurs. The fire prevention and fire control procedures for the Facility will be revisited following the occurrence of a significant fire to determine if modifications are warranted.

## **5.2 Access Control**

Access to the Facility will be limited to the entrance gate located on School Road. Vehicles entering the Facility property can be observed by the gatehouse attendant.

### **5.2.1 Facility Security 30 TAC §330.223(a)**

Public access to the Facility will be limited to the gated Facility entrance. The Site Operator controls access and monitors vehicles entering and exiting the Facility. The Facility is fenced with a 4-foot barbed wire fence with a lockable gate.

Entrance to the Facility is monitored by Site personnel during Facility operating hours. Outside operating hours, the gate will be locked. Entry to the Facility will be restricted to designated personnel, appropriate subcontractors, approved waste haulers, TCEQ personnel, and properly identified persons whose entry is authorized by Facility management. Visitors may be allowed in the Facility only when accompanied by a Facility representative.

The Facility will comply with schedule and notification requirements in **Table IV-3** for any access breach.

**Table IV-3. Schedule and Notification Requirements for Access Breach**

Requirements	Access Breach Repaired within 8 hours	Access Breach Not Permanently Repaired in 8 hours
Notify regional office of breach and repair schedule	not required	within 24 hours
Make temporary repairs	not required	within 24 hours
Make permanent repairs	within 8 hours	within schedule submitted to regional office in initial notice
Notify regional office when permanent repair completed	not required	within schedule submitted to regional Facility representative.

**5.2.2 Access Road from Public Road 30 TAC §330.223(b)**

Access to the Facility is from School Rd. The entrance to the Facility is located on the North side of School Rd. The two-lane gravel entrance has a gate that will be opened and unlocked during operating hours. Arriving trucks will enter through this gate and proceed down the gravel driveway towards the processing area for unloading.

Within the Facility, signs will be placed along the entrance road at an adequate frequency to guide users to the proper process facility area and which roads are to be used. Roads not being used for access will be blocked or otherwise marked for no entry. An open area just inside the Facility's entrance is wide enough to accommodate trucks/vehicles and their turning radii prior to dumping/unloading. A sign marked (Do Not Enter) and cones will be placed on the access road when it continues past the facility.

**5.2.3 Vehicle Parking 30 TAC §330.223(b)**

Vehicle parking for employees and visitors is provided inside of the Registration Boundary. No vehicles or equipment will be parked within the 50-foot buffer zone

**5.2.4 Perimeter Control Fencing 30 TAC §330.223(c)**

Access to the facility will be controlled by a perimeter fence consisting of a four-foot barbed wire fence with lockable gates.

**5.3 Unloading of Waste Unloading Areas 30 TAC §330.225(a)**

The Facility is authorized to receive permitted wastes as identified in **Section 2.2.1**. Trucks transporting septage proceed through the Facility's gated entrance off School Road and traverse to the Facility until they reach the covered process area. The schematics of the existing Facility, along with the Site Development Plan, are depicted on **Figure IV-1 and IV-2**. Loaded trucks with enclosed tanks may be staged outside of the process area for short periods of time awaiting access to the unloading lanes or for adequate free capacity in the waste processing area to develop such that they may unload.

Trained personnel will monitor all incoming loads of waste and will be trained to become familiar with the rules and regulations governing the various types of waste that can or cannot be accepted by this Facility. Septage unloading will be limited to the concrete surfaced unloading area.

Upon completion of the unloading operation, the transportation vehicles will immediately leave the facility. Facility personnel will direct traffic, as necessary, to expedite the safe movement of vehicles. Signs and barricades will prevent waste unloading in undesignated areas. Equipment Operators or other Facility personnel will observe the unloading of septage to ensure that prohibited wastes are not allowed and accepted by the Facility. If prohibited waste is observed in a waste load, the prohibited waste will be immediately returned to the transporter or generator of the waste. The general process flow schematic is shown in **Figure IV-3**.

### **5.3.1 Prevention of Indiscriminate Dumping 30 TAC §330.225(a)**

Arriving trucks/vehicles will be directed to the process area by signs. These vehicles will deposit their loads and depart the Facility. No septic trucks will be allowed access to any other areas of the Facility other than the waste processing area. Site personnel will provide traffic directions as necessary to expedite the safe movement of vehicles. No septage unloading or Facility operations will occur within 50 feet of the registration boundary.

Within the Facility, signs will be placed along the road at a frequency adequate for users to be able to understand where the waste processing area is and which roads are to be used. Roads not being used for access to the waste processing area will be blocked or otherwise marked for no entry.

All Facility roadways are routinely watered and cleaned to control dust and mud accumulation.

### **5.3.2 Unacceptable Waste 30 TAC §330.225(a)**

Trained personnel will visually inspect all incoming loads. Should any indication of prohibited wastes be detected, the Maintenance and Administrative Supervisors will be immediately summoned to conduct a more thorough evaluation of the load. Should any prohibited waste be confirmed or suspected, the entire load will be refused, and the driver will be instructed to depart the Facility. The Facility reserves the right to reject any load, regardless of the waste composition and without need of any justification or analytical support.

In addition to the above procedure, the inspection of incoming loads will be documented on a random basis. The Maintenance and Administrative Supervisors will be responsible for documenting the inspections, at a minimum of one inspection per week and a maximum of one inspection per day.

The Maintenance and Administrative Supervisors is required to maintain and include in the Facility Operating

Record the following:

1. Load Inspection Reports;
2. Records of hazardous or PCB waste notifications (if detected)
3. Personnel training records.

Load Inspection Reports will be completed for each inspected load. The reports will include, at a minimum, the date and time of inspection, the name and address of the hauling company and driver, the type of vehicle, the size and source of the load, contents of the load, indicators of prohibited waste, and results of the inspection. A sample of the Inspection Report Form titled Monthly Inspection Report is included as **Figure IV-5**.

TCEQ notification is required whenever hazardous or PCB waste is detected. Records of the notifications will be kept in the Facility Operating Record and will include the date and time of notification, the individual contacted, and the information reported.

Personnel training records will be maintained in the Facility Operating Record and will include evidence of successful completion of the training, type of training received, and the name of the instructor.

### **5.3.3 Waste in Unauthorized Areas 30 TAC §330.225(b)**

#### **The unloading of waste in unauthorized areas is prohibited.**

The unloading of waste in unauthorized areas is strictly prohibited, and Facility personnel maintain full control of all unloading activities to ensure waste is deposited only in designated receiving points. If waste is unintentionally unloaded in an unauthorized area, the Facility will follow the procedure below to safely relocate it using approved equipment and contracted support.

##### **Equipment Used:**

- Pump truck provided by SWS Resources.
- Hoses, suction lines, and fittings rated for septage transfer.
- Secondary containment tools such as absorbent pads or berms if needed.

##### **Relocation Procedure:**

Site personnel will identify the unauthorized unloading location, secure it, and prevent additional discharge. SWS Resources will dispatch a vacuum or pump truck, and personnel will connect approved hoses for extraction. Waste will be suctioned from the unauthorized area into the contractor's recovery truck. Recovered septage will be transported to the authorized unloading point and discharged into the beginning of the processing system. Residual material will be absorbed, cleaned, and sanitized per facility procedures. Personnel will log the incident, including volume, cause, corrective actions, and confirmation of proper relocation.

### **5.3.4 Detention and Prevention of Unloading or Processing of Prohibited Waste 30 TAC§330.225(c)**

The prohibited Waste Detection and Exclusion Program at the Facility include, at a minimum, the following steps:

1. Random inspections of incoming loads;
2. Certification by the hauler "Load Contains No Prohibited Wastes";
3. Records of all inspections;
4. Training for Facility personnel to recognize regulated hazardous and PCB waste;

5. Notification sent to the TCEQ of any incident involving the acceptance of prohibited waste at the facility;
6. Copies of the records for remediation of the incident by the hauler, the waste generator and/or the facility; and
7. Sufficient security measure to prevent the unauthorized entry and dumping of wastes.

### **5.3.5 Managing of Prohibited Waste 30 TAC §330.225(c)**

Prohibited wastes detected during the inspection will not be accepted by the Facility and will be returned immediately to the generator. If the hauler is not available, the waste will be safely stored in an enclosed container until provisions for removal can be arranged. The prohibited waste will be isolated to prevent its mixture with waste accepted by the Facility. TCEQ notification is required whenever hazardous or PCB waste is detected.

If hazardous or PCB wastes are detected and the hauler is not available, a hazardous waste specialty contractor will be retained. The hazardous waste specialty contractor will characterize the waste and notify the hauler to remove the waste from the Facility. As soon as is practical, the hauler will be required to remove the hazardous or PCB waste from the Facility. Prior to removal, the hauler must obtain a United States Environmental Protection Agency (USEPA) identification number, package the waste in accordance with Texas Department of Transportation (TxDOT) regulations, and properly manifest the waste designating a permitted facility to treat, store, or dispose of the hazardous or PCB waste.

### **5.4 Spill Prevention and Control 30 TAC §330.227**

The Facility's waste handling operations occur on a concrete discharge pad, providing an impermeable and easily cleanable surface for unloading and initial handling. The remainder of the process floor consists of compacted clay, which serves as a low-permeability working surface to help contain any accidental releases. The entire processing area is surrounded by a compacted clay berm, which functions as a containment barrier to prevent any spilled liquids from migrating beyond the operational footprint. Together, the concrete pad, compacted clay floor, and clay berm ensure that any spills or releases remain fully contained until recovered and properly managed.

The process area will be covered with a metal- tin roof to ensure no stormwater will enter the process area.

## **5.5 Site Operating Hours**

### **5.5.1 Facility Operating Hours 30 TAC §330.229(a)**

The Facility will receive and process waste Monday through Friday 8am to 5pm. Hours of operation may vary slightly, within the above referenced hours, depending on incoming waste volumes. Figure IV-6 illustrates the Facility signage.

### **5.5.2 Waste Acceptance Hours and Operating Hours for Operating Heavy Equipment and Transporting Materials 30 TAC §330.229(a)**

The Facility will receive and process waste Monday through Friday 8am to 5pm. Hours of operation may vary slightly, within the above referenced hours, depending on incoming waste volumes. Figure IV-6 represents the Facility signage.

### **5.5.3 Alternative Operating Hours 30 TAC §330.229(b)**

The Facility will receive and process waste Monday through Friday 8am to 5pm. Hours of operation may vary slightly, within the above referenced hours, depending on incoming waste volumes.

### **5.5.4 Site Operating Record of Alternative Operating Hours 30 TAC §330.229(d)**

Hours of operation for incoming waste Monday through Friday 8am to 5pm. The hours that are not included in 30 TAC 330.229 (a) will be recorded as followed. The facility will record, in the site operating record, the dates, times, and duration when any alternative operating hours are utilized.

### **5.5.5 Additional Temporary Operating Hours 30 TAC §330.229(c)**

If the Facility needs the additional temporary operating hours, the company will seek the approval of the commission's regional offices.

## **5.6 Facility Sign 30 TAC §330.231**

An entrance sign will be displayed at the entrance gate to the Facility off School Road (see **Figure IV 6**). This sign will measure at least 4 feet by 4 feet and will have lettering of at least 3 inches in height, which states the name of the Facility, type of TCEQ MSW site, hours and days of operation, facility rules, TCEQ registration number, emergency 24-hour contact number, and emergency fire department contact number.

At the entrance of the Facility, three informative signs will be installed. The first sign will display the site rules, as detailed in **Figure IV-7**. Adjacent to it, there will be a sign indicating the types of waste prohibited at the Facility, referencing **Figure IV-8**. Lastly, a sign specifying the waste permitted at the Facility will be placed, corresponding to **Figure IV-9**. Additional traffic signs will be placed at locations within the Facility to adequately inform users of the location of the waste processing area and site rules.

## **5.7 Control of Windblown Material and Litter**

### **5.7.1 Collect Windblown Waste and Litter 30 TAC §330.233(a) and a(2)**

Windblown waste and litter resulting from operation will be collected at least once per day to minimize unsightly conditions and fire hazards on School Rd. Any noted waste materials that may have spilled from the waste hauling vehicles traveling to the Facility will be cleaned-up. The

Maintenance and Administrative Supervisors will consult with the TxDOT concerning the clean-up of state highways and rights-of-way.

### **5.7.2 Control of Windblown Waste 30 TAC §330.233(a)(1)**

Windblown wastes and litter will be controlled by combining several of the following means:

- All waste transportation vehicles using this Facility will be required to have enclosed tanks with working valves that do not leak. The adequacy of valves or containment methods for the incoming waste shipments will be checked at the Facility entrance. The Facility will take actions such as posting signs, reporting offenders to proper law enforcement officers, adding surcharges or other similar measures if leaking vehicles are observed entering the Facility.
- Processing (screening) operations will occur under a covered structure of the process area to minimize windblown materials.
- Windblown waste and litter resulting from operation will be collected at least once per day to minimize unsightly conditions and fire hazards on School Rd. Any noted waste materials that may have spilled from the waste hauling vehicles traveling to the Facility will be cleaned-up. The Maintenance and Administrative Supervisors will consult with the TxDOT concerning the clean-up of state highways and rights-of-way.
- The Facility will provide a wire or other type of fencing or screening when necessary to minimize windblown materials.

### **5.7.3 Minimize Windblown Waste 30 TAC §330.233(b)**

The Facility will provide a wire or other type of fencing or screening when necessary to minimize on-site windblown materials.

### **5.8 Material Along Route to the Facility 30 TAC §330.235**

The Facility will take steps to encourage vehicles hauling waste to the Facility are enclosed. The adequacy of containment methods for the incoming waste shipments will be checked at the Facility entrance. The Facility will take actions such as posting signs, reporting offenders to proper law enforcement officers, adding surcharges or other similar measures if leaking vehicles are observed entering the Facility.

The Facility will provide for the cleanup of waste materials spilled along and within the right-of-way of School Rd. Cleanup for the spilled materials will be performed at least once per day when the Facility is in operation. The Facility will consult with TxDOT, county, and/or local government officials concerning cleanup of roads and rights-of-way consistent with §330.235.

### **5.9 Facility Access Roads Weather Access Road 30 TAC §330.237(a)**

Access to the Facility is from School Rd, which will be accessed from Oil Field Rd. The entrance to the Facility is located on the northside of School Rd. The entrance has a gate that will be opened and unlocked during operating hours. Arriving trucks will enter through this gate and proceed down the gravel driveway towards the processing area for unloading. An open area just inside the

Facility's entrance is wide enough to accommodate trucks/vehicles and their turning radii prior to dumping/unloading.

Arriving trucks/vehicles will be directed to the process area by signs. These vehicles will deposit their loads and depart the Facility. No private or commercial solid waste vehicles will be allowed access to any other areas of the Facility other than the waste processing area. Site personnel will provide traffic directions as necessary to expedite the safe movement of vehicles.

All on-site roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes. Within the Facility, signs will be placed along the road at a frequency adequate for users to be able to understand where the waste processing area is, and which roads are to be used. Roads not being used for access to the waste processing area will be blocked or otherwise marked for no entry. All site roadways are routinely watered and cleaned to control dust and mud accumulation.

### **5.9.1 Dust Control 30 TAC §330.237(b)**

All Site roadways are routinely watered and cleaned to control dust and mud accumulation.

### **5.9.2 Depression, Ruts, and Potholes 30 TAC §330.237(c)**

All on-site roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes.

## **5.10 Noise Pollution and Visual Screening 30 TAC §330.239**

All Facility operations are distanced from public view or access. The actual processing area of the Facility is located in the covered structure, which minimizes visual and noise pollution.

## **5.11 Overloading and Breakdown 30 TAC §330.241**

### **5.11.1 Design Capacity 30 TAC §330.241(a)**

The design capacity of the liquid waste processing Facility will not be exceeded during operation. The Facility will not accumulate septage in quantities that cannot be processed within such a time as to avoid the creation of adverse conditions such as odors, insect breeding, or harborage of other vectors. If such accumulations occur, additional septage will not be received until the adverse conditions are abated.

Procedures to ensure design capacity of facility is not exceeded:

1. Volume of waste will be tracked using flow meters, truck manifest and daily logs.
2. Regular inspection of receiving and process tanks
3. Contingency plan: If the volumes threaten to exceed capacity, the facility will temporarily halt acceptance of additional loads and redirect them to an alternate permitted facility.
4. BLU site management plan will be maintained to ensure they do not exceed application rates.

### **5.11.1 Design Capacity 30 TAC §330.241(a)**

#### **5.11.1.2 Storage Procedures 30 TAC §330.241(a)(1)**

No unprocessed domestic septage will be stored at the facility. Immediately upon unloading the septage, it will be screened and pumped to the process tanks for treatment. Processed domestic septage may be staged up to 7 days for land application. Unprocessed domestic sewage will not be allowed to remain in tanks for more than 72 hours.

#### **5.11.3 Inoperable Facility 30 TAC §330.241(c)**

If the process facility operation becomes inoperable for a period greater than 24 hours, all septage vehicles will be directed to proceed directly to another process facility registered with the state. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding, or harborage of vectors, steps shall be taken to remove the accumulation of solid waste from the Facility to another facility registered with the state.

### **5.12 Sanitation 30 TAC §330.243**

#### **5.12.1 Inoperable Facility 30 TAC §330.243(a)**

The waste receiving area will be cleaned on a daily basis at the completion of processing during the process facility operations. Cleaning operation will consist of washing the process area. The lanes, where the incoming waste is unloaded, will be washed down at least twice weekly.

#### **5.12.2 Accumulation of Wash Water 30 TAC §330.243(b)**

Wash down liquids will be collected within confines of the process area for proper handling to prevent the creation of odor or attraction to vectors, as indicated in **Section 3.1.5**

#### **5.12.3 Collection and Disposal of Wash Water 30 TAC §330.243(c)**

Wash water will be collected and handled as indicated in **Section 3.1.5**.

### **5.13 Ventilation and Air Pollution Control Air Emissions 30 TAC §330.245(a)**

#### **5.13.1 Air Emissions 30 TAC §330.245(a)**

No significant air pollution emissions are expected to result from operations of the Facility. In accordance with 30 TAC §330.245(a), air emissions will not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act.

### **5.13.2 Obtain Required Authorizations under Chapter 116 or Subchapter U from Air Permits Divisions 30 TAC §330.245(b)**

The facility has obtained a PBR New Registration Permit number 180827.

### **5.13.3 Odor-Retaining Containers and Vessels 30 TAC §330.245(c)**

All waste processing will occur within the covered process area. The facility will only accept domestic septage. The trucks delivering the septage will be enclosed and unload into an enclosed process. Additionally, no storage will occur at the facility; therefore 30 TAC §330.245(c) is not applicable.

### **5.13.4 Ventilation and Nuisance Odors 30 TAC §330.245(d)**

In accordance with 30 TAC §330.245(d), the Facility will be designed to keep all septage inside enclosed tanks to provide adequate odor control.

The operator will prevent nuisance odors from leaving the boundary of the Facility. If nuisance odors are found to be passing the Facility boundary, the Facility will immediately take action to abate the nuisance. The Facility may be required to suspend operations until nuisance odors are abated. Odors are controlled by limiting processing operations to within the processing area.

### **5.13.5 Air Pollution Emission 30 TAC §330.245(e)**

No air pollution control devices will be required because no emissions will result from the process facility operations. Thus, rules 30 TAC §330.245(e) is not applicable.

### **5.13.6 Measure/Equipment to Control Odor 30 TAC §330.245(f)(1) – (4)**

Odors are controlled by limiting waste management operations to within the process area. The process area is located to provide a buffer zone from the property boundary in accordance with 30 TAC §330.245(f)(2).

All other sections of 30 TAC §330.245(f) are not applicable. In the event that unacceptable odors do occur, the following procedures may be implemented:

- The Operations Manager, Maintenance and Administrative Supervisors will stop incoming loads of odor causing waste when detected;
- Install odor control system; or
- Retain an independent odor control specialist.

### **5.13.7 Process Areas 30 TAC §330.245(g)**

Rules 30 TAC §330.245(g) is not applicable.

### **5.13.8 Air Exposure 30 TAC §330.245(h)**

All process tanks will be enclosed. Waste vehicles unloading will be enclosed.

### **5.13.8 Reporting Emissions Events 30 TAC §330.245(j)**

Reporting of emissions shall be made in accordance with §101.201 and reporting of scheduled maintenance shall be made in accordance with §101.211.

### **5.13.9 Poned Water 30 TAC §330.245(k)**

As part of routine Facility inspections, areas with ponded water will be remedied by draining or backfilling, as appropriate, in accordance with 30 TAC §330.245(k).

### **5.14 Employee Sanitation Facilities 30 TAC §330.249**

Potable water and sanitary facilities will be provided for all employees and visitors. These facilities will be made available at the Process facility's office next to the process area.

## **6. Health and Safety Plan 30 TAC §330.247**

Training for Facility personnel will include health and safety training.

Safety training for all personnel will be provided routinely and will be the responsibility of the operator. The operator will enforce safety rules and policies and will promptly investigate and report all accidents. Operators will wear personal protective equipment, such as gloves, safety glasses, and dust masks, when appropriate.

Detailed procedures that comprise the Health and Safety Plan for the facility are discussed below.

### **6.1 Emergency Preparedness**

Preparedness and preventive measures will be implemented at the Facility to minimize both the frequency and severity of accidents and emergency situations threatening human health. These measures will largely depend on the attentiveness and state of readiness of facility personnel. All personnel will undergo in-house training to introduce the measure below.

#### **6.1.1 General Measures**

The following general measures will be implemented for the Facility:

- Employee breaks or rest periods will be provided to minimize employee fatigue factor, improve alertness, and thereby reduce accident potential.
- Access controls will prevent entry of unauthorized personnel.
- Routine preventive equipment maintenance will be provided.
- Appropriate personnel safety equipment will be maintained onsite in good condition.

- Adequate turning areas for vehicles will be provided.
- Scavenging will not be allowed, and individuals will be required to stay close to their vehicles for their protection.
- Unloading will be restricted to designated areas only.
- Facility personnel will be on alert for possible prohibited wastes entering the Facility.
- Prohibited wastes will be controlled or contained and removed, as necessary.

### **6.1.2 Measures for the Unloading and Receiving Area**

The following measures will be implemented within the unloading/receiving area of the Facility:

- Trained personnel will observe waste discharge and randomly inspect loads according to procedures set forth in this SOP.
- Observation of incoming vehicles will be performed for evidence of improper operation, faulty equipment, or other conditions that could be detrimental to the Facility personnel or other persons onsite.
- Emergency equipment will be available, and a first-aid kit maintained in the Facility.
- Emergency telephone numbers will be displayed.
- Signs will be displayed warning transporters that hazardous wastes and PCB, radioactive, and other prohibited wastes are not accepted.

## **6.2 Emergency and Contingency Procedures**

Emergency and contingency procedures will be implemented at the Facility in the event of accidents or environmentally significant releases of waste or waste constituents to air, soil, surface water, or groundwater. These procedures constitute an initial response by Facility staff that will be supplemented, as necessary, by outside emergency services. Emergency assistance requests will be handled through conventional means (calling 911).

The following situation-specific procedures are initially proposed and are subject to amendments, as required, based on experience gained with time.

### **6.2.1 Accidents**

The procedures to address various types of accidents are discussed in the following sections.

#### **6.2.1.1 General Procedures**

For an incident involving a spill or release that requires notification, Facility personnel should:

1. Notify the appropriate federal or state agency affected by the release and report the following information:

A. Caller's name and telephone number.

- B. Name and address of the facility.
  - C. Time and type of release.
  - D. Name and quantity of material(s) involved (to the extent known).
  - E. Extent of injuries if any.
  - F. Possible hazards to human health or the environment outside the Facility.
2. Take appropriate measures to prevent the spreading or worsening of the situation.
  3. Notify the Facility manager or designated representative of the details of the spill.
  4. Make arrangements to collect, store, treat, or dispose of all recovered waste and clean-up residue.
  5. Investigate possible methods of preventing recurrence of the incident.

### **6.2.1.2 Vehicular Accidents**

If an accident involving vehicles or equipment occurs, Facility personnel should:

1. Determine whether personal injury has occurred; if so, follow the steps outlined in **Section 6.2.1.3**, which addresses personal accidents.
2. Determine whether the vehicle(s) can be safely moved under its own power.
  - A. If so, move the vehicle(s) out of the way of normal traffic flow.
  - B. If the vehicle(s) cannot move on its own power and is interrupting traffic flow, push the vehicle(s) out of the way using site equipment.
3. Notify the Facility manager or designated representative of the details of the accident.
4. Arrange to have any disabled vehicles towed from the Facility in accordance with specific instructions from the Facility manager or designated representative.

### **6.2.1.3 Personal Accidents**

1. Determine the nature and extent of the injuries.
2. Administer basic emergency first-aid techniques if safe.
3. Call for outside emergency assistance (911).
4. Report incident to the Facility manager or designated representative.
5. Transport victim(s) to a professional medical care facility by conventional means if injuries require non-emergency medical attention.

### **6.2.2 Releases**

The procedures to address various types of releases are discussed in the following sections.

**6.2.2.1 Sudden Releases**

For sudden releases of smoke, vapors, liquids, or unusual odors, facility personnel should:

1. Remove personnel from the area if safety is threatened.
2. Discontinue operation in the immediate area until authorized to resume.
3. Notify the Facility manager or designated representative, who will investigate the cause and correct it.
4. Notify the Facility manager or designated representative of the extent of the sudden release and prepare a plan of action to correct the problem.

**6.2.2.2 Non-Sudden Releases**

For non-sudden releases involving persistent odors or windblown waste, Facility personnel should:

1. Notify the Facility manager or designated representative of the non-sudden release and recommend actions to be taken

**7. Site Personnel, Operational Requirements and Training**

**7.1 Site Personnel – Function & Minimum Qualifications of Key Personnel**

**§330.127(1)**

Responsibility for overall management and operation of the facility will rest on the Operations Manager, and the Maintenance and Administrative Supervisors. These persons are responsible for assuring that adequate personnel and equipment are available to provide facility operations in accordance with this SOP and in adherence with TAC regulations. An organizational chart for the process facility is shown below. At least one person will be onsite at all times during operational hours that holds a current MSW Class B Supervisor's License. Typical staffing levels for the Recycling/Transfer Station are indicated in **Table IV-4**. The same individual may perform these functions provided that the minimum-staffing compliment listed in this section is available on site.

Organization chart

Operations Manager →/Equipment Operators

Table IV-4. Typical Staffing Levels

PERSONNEL CATEGORY	MINIMUM STAFFING	TYPICAL STAFFING
Operations Manager	1	1
Equipment Operators	1	1

Total	2	2
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**7.1.1 Operations Manager**

The Operations Manager (OM) is responsible for overall management and the general direction of the facility and materials recovery operations. The OM is responsible for receiving incoming calls from customers, receiving manifests/trip tickets, and inspecting loads if necessary. The OM is responsible for maintaining all facility recordation.

The Operations Manager must hold and maintain a MSW facility supervisor's license in accordance with 30 TAC, Part 1, Chapter 30, Subchapters A and F and will have a minimum of six months of MSW facility operation experience or six months of on-the-job training. The Operations Manager must be familiar with the specific operating procedures set forth in this SOP and will participate in training with other employees. The OM have the authority to hire the necessary supervisory and operating personnel for the facility and to arrange or provide for their training and orientation. These individuals also ascertain equipment needs of the facility and initiate any purchasing, leasing, and renting of additional equipment. The OM may also engage outside contractors, as needed, to provide necessary supplemental equipment, services, or labor as deemed necessary for site operation. The OM are the designated regulatory contact individuals for the facility and are responsible for environmental compliance at the facility. The OM is responsible for maintaining all facility recordation.

**7.1.2 Waste Spotter/Equipment Operator**

Waste Spotter/Equipment Operator (WS/EO) is responsible for monitoring the unloading of waste shipments at the incoming waste staging area for prohibited wastes. Through training and experience, this individual will be able to recognize the physical characteristics of prohibited waste [hazardous waste, prohibited polychlorinated biphenyls (PCB) waste, or otherwise prohibited waste] and will be alert for these materials in incoming waste shipments. This individual will be responsible for monitoring and directing the unloading of vehicles at the facility. All improper operations, dangerous conditions, or receipt of prohibited wastes will be reported immediately to the Maintenance and Administrative Supervisors. The WS/EO will be on duty at the incoming waste processing area during regular working hours performing dual duties as the Equipment Operator and as the waste spotter. As the responsible employee for screening and processing the incoming septage, this employee will be able to visually monitor all incoming loads of waste. If the WS/EO is not available to monitor incoming waste streams, the Maintenance and Administrative Supervisors or another full-time employee will visually inspect each truckload of waste received by the facility until such time the WS/EO returns to the processing area for incoming wastes.

## **7.2 Site Personnel – General Instructions for Personnel Concerning Operational Requirements §330.127(3)**

A comprehensive Personnel Training Program has been developed and will be employed throughout the operating life of the facility. This Training Program shall provide waste management procedures and operations training to employees who are assigned to, or have responsibility for, the process facility operation.

Training shall consist of both initial training and continuing training courses which shall provide instruction on current state and federal laws, TCEQ rules regarding septic waste management, facility operation and maintenance, environmental monitoring, public health and environmental protection, response to emergency situations, and facility design and construction.

## **7.3 Training – Applicable Training Requirements §330.586(a) & (c)**

The two major objectives of the Personnel Training Program at the process facility are:

- To thoroughly train appropriate employees in the proper performance of their individual job duties, which pertain to waste management; and
- To prepare all appropriate employees to implement the proper emergency procedures effectively, if necessary.

To accomplish these objectives, both on-the-job training and formal instruction in waste management procedures, safety, emergency procedures, legal requirements, and facility operations procedures are provided to personnel involved with the handling, transportation, and disposal of septic waste. Personnel shall receive training appropriate to individual needs as well as specific job duties and responsibilities within 6 months of employment or assignment to a new position. These personnel shall be trained to perform their duties safely and in accordance with the applicable requirements for waste management. The training program shall be designed to enable facility personnel to respond effectively to emergencies by familiarizing personnel with emergency procedures and equipment. Personnel must successfully complete the training program within 6 months of their employment or assignment to the facility. Additional supervision will be provided to personnel during training, and personnel activities will be limited during the training period.

The Personnel Training Program includes familiarization with regulations applicable to generators and transporters of prohibited wastes and provides general descriptive characteristics of prohibited wastes. Training personnel to recognize prohibited wastes in the incoming wastes will help prevent management at the facility. Personnel training will be performed by individuals experienced in waste management procedures and operations, safety, and related subjects.

Topics for training may vary but will be conducted annually for the following:

- Safety;
- Fire protection, prevention, and evacuation;

- Fire extinguisher usage;
- Emergency response;
- Litter control and windblown waste pick-up;
- Hazardous waste and PCB detection and control (waste screening, if applicable);
- Prohibited waste management;
- Random inspection procedure;
- Spill Prevention Control Plan; and
- Stormwater Pollution Prevention Plan.

The training program will also ensure that personnel, as appropriate for their position, are familiar with emergency procedures, emergency equipment, and emergency systems as response to fires or explosions.

The training shall be specific to the duties, tasks, and responsibilities of each employee's position. Experienced employees, or supervisors, who are knowledgeable of the requirements for satisfactory job performance, shall provide on-the-job training and monitor employee's progress. On-the-job training is progressive, typically beginning with demonstrations, and then followed by closely supervised practice. When the employee has demonstrated the ability to understand and perform the job and its related safety and emergency response functions, the supervisor acknowledges the satisfactory completion of the employee's on-the-job training by making an appropriate entry in the training records.

Successful completion of the appropriate training activities by an employee is required to fill an operator position, in addition to formal training. When an existing employee is transferred or promoted to a new position with training requirements that differ from the previous position, that employee undertakes any additional training required.

Training will include both introductory and continuing training as required by 30 TAC §335.586(c). Introductory training (4 hours minimum) provided to the Operations Manager and Equipment Operators will include safety training, emergency training, and training required to perform specific personnel assigned tasks. The frequency of continuing education and training activities will vary according to job title and position. Site personnel will be provided an annual review (2 hours minimum) of the initial training required for the position.

Proof of training, including firefighting and continuing training, shall be maintained at the facility and shall be available for inspection by TCEQ personnel and Austin County personnel.

### **7.3.1 Employee Training Documentation**

Three types of personnel training documentation will be maintained:

1. Job title lists;
2. Job descriptions; and

### 3. Records of job training.

The first type of training documentation consists of job titles for all positions. This list contains the name of the person occupying each position and will be revised, as necessary.

The second type of training documentation is a job description for each position. Included in the general job description are any required education or experience, initial and continuing training required, and the job duties and responsibilities during emergency response, if any. The type and amount of introductory and ongoing training to be given for a particular position is also incorporated into the general job description.

Records of personnel training are the third type of training documentation. These records consist of a general facility-training file, which includes a record of each employee's training history. The general facility file contains a description of each formal training activity, the date(s), personnel who attended, and an indication of satisfactory accomplishment of training goals by each person. The same or similar information is included on an individual training record that is maintained for each person in the training program.

Annually, the Maintenance and Administrative Supervisors will review the training files against the personnel roster and job description training requirements to verify that the frequency and type of training required for each job is provided. This annual review will also demonstrate if the facility's training objectives are being met.

Training records on all former employees will be retained for a minimum of 3 years following termination of their employment. Training records on current employees will be kept until 3 years after facility closure.

#### **7.3.2 Employee Training Records**

The facility will maintain training records in the Site Operating Records to show the training provided to staff and management. These records will contain:

1. The general job title for each position at the facility and the name of the employees filling each position;
2. A description of the general job duties related to waste management for each position, including any prerequisite skills, education, or other qualifications and duties for each position;
3. A general description of the type and amount of both initial and continuing training given to employees filling each position; and
4. Records which document that the training or on-the-job experience required has been given to and satisfactorily completed by all appropriate facility personnel. **Table IV-5** presents a listing of site personnel and training summary.

**Table IV-5. Site Personnel and Training Summary (ACWS, 2024)**

Position	O r i g i n a l t r a i n i n g	O p e r a t i o n s	Pro hi bi t e d Wa s t e I d e n t i f i c a t i o n	S a f e t y	I n j u r y	Em er g en cy Re sp o n s e	Q u a l i f y i n g	Ra n d o m I n s p e c t i o n	PPE
Operations Manager	x	x	x	x	x	x	x	x	x
WP/EO	x	x	x	x	x	x	x	x	X

### 8. Site Equipment §330.127(2)

Sufficient equipment will be provided to conduct site operations in accordance with the design, SOP, and waste acceptance rates.

Table IV-6 below shows the following list of equipment that is expected to be routinely available for use at the Facility. Equipment requirements may vary in accordance with the waste acceptance rate at any given time. Additional equipment will be provided as required for increasing volumes of incoming waste. In case of breakdowns, backup equipment is available from the Facility. Other equivalent types of equipment by other manufacturers may be substituted on an as- needed basis.

**Table IV-6. Facility Equipment List**

Equipment	Typical Size(1)	Function
Tractor(2)	Various makes and types	Move heavy objects around facility. Grading Roadway. Pulling water trailer for dust control. Also used for Land Application.
Dumpster/Roll-Off Containers	Up to 40 yd	Storing inorganic materials in the process area prior to hauling
Skid Steer with bucket and sweeper	Bucket and sweeper	Planning to purchase in the near future.
Pump (Qty 4)	T4, Electric	For moving liquid through the process

Pressure Washer (Qty 1)	Portable	For wash down of process area
Vacuum Truck (3 <sup>rd</sup> party)	Portable	For removing liquid from spills and cleaning trash tanks.

## Part IV NOT APPLICABLE SECTIONS

### **§330.203(c)(1)**

This section applies to facilities that discharge effluent to a trap, interceptor, or treatment system permitted under the Texas Water Code. The proposed facility does not discharge effluent to any such system. All domestic septage is processed for land application on our BLU sites.

### **§330.203(c)(2)**

Benzene, lead and TPH will be tested at the start of the operation and annually thereafter. Each analysis will be maintained at the facility for a minimum of three years.

### **§330.219(d)**

General recordkeeping and reporting requirements will be kept in the office at the facility.

### **330.219(d)(2)**

The facility will have a TCLP analysis taken annually and kept for 5 years.

### **330.219(d)(3)**

All recordkeeping and reports will be kept on site in the office for 5 years.

**Type V Liquid Processing Facility Registration Application**  
**Austin County Waste Solutions, LLC**

**PART IV – FIGURES**

**IV-1 Site Development Plan – Existing Site Layout**

**IV-2 Site Development Plan – Planned Facility Layout**

**IV-3 General Process Flow Schematic**

**IV-4 Detail of Processing Area Structure**

**IV-5 Monthly Site Inspection Form**

**IV-6 Facility Sign**

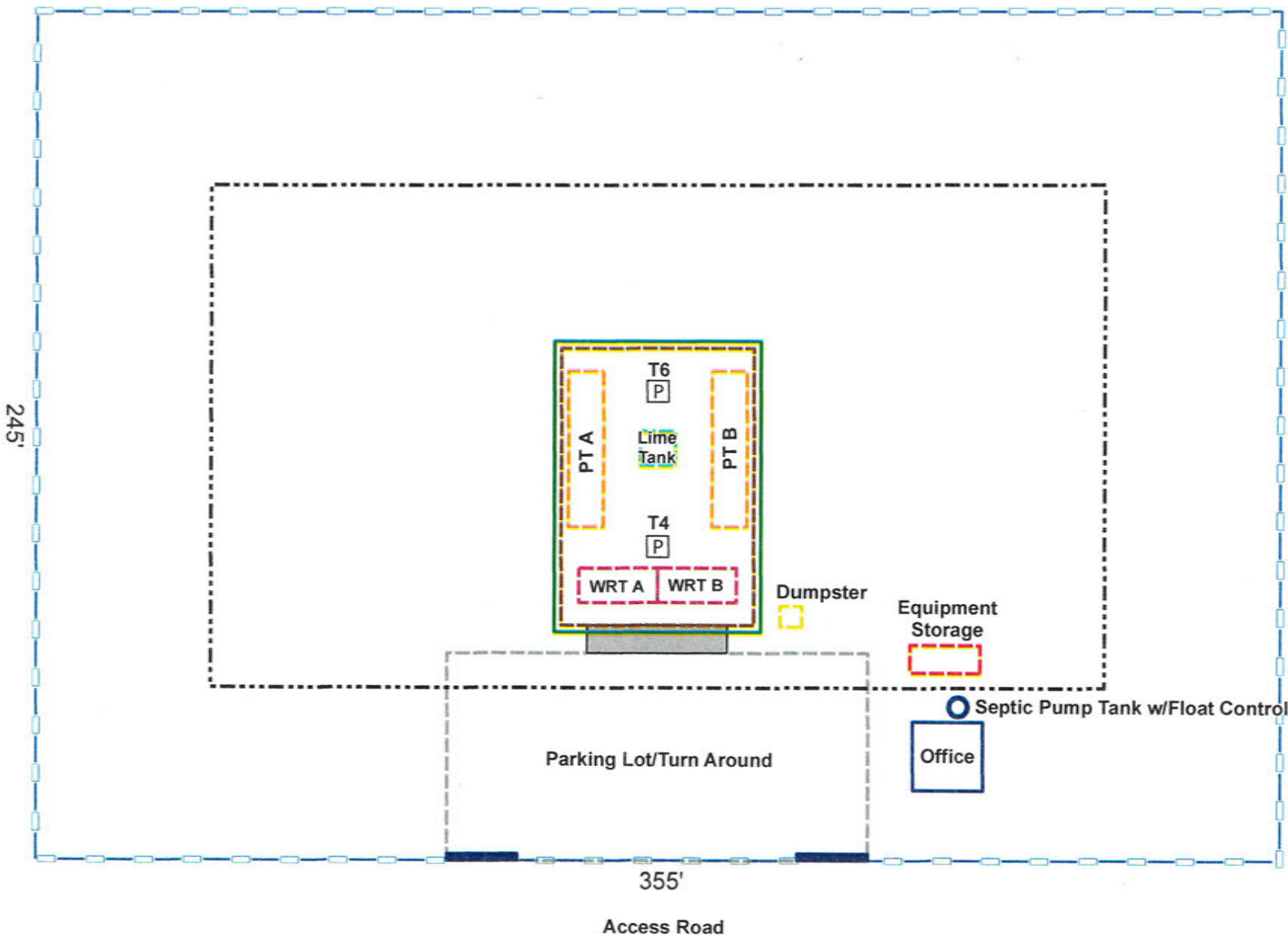
**IV-7 Sign Displaying Site Rules**

**IV-8 Sign Displaying Prohibited Wastes**

**IV-9 Sign Displaying Authorized Wastes**

Figure IV -1  
Existing Site Layout

No previous site exists.



**LEGEND**


- P Process Pump
- Septic Pump Tank with Float Control
- Fence Line
- 50ft Buffer from Perimeter Fence Line
- Earthen Berm
- Dumpster
- Equipment Storage
- Lime Tank
- Processing Tank
- Waste Receiving Tank
- Parking Lot/Turn Around
- Limits of Facility Cover
- Office
- Concrete Collection and Backup Area
- Gate



AUSTIN COUNTY WASTE SOLUTIONS  
 AUSTIN COUNTY, TEXAS

**PLANNED FACILITY LAYOUT**


PROJECT NUMBER: 24-1353-1  
 FILE NAME: FIGURE\_2\_SitePlan  
 DATE: 11/18/2025  
 DRAWN BY: LS  
 APPROVED BY: TO



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Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 F1US  
 Source: Aerial Imagery Provided by Google

**FIGURE IV-2**



1 inch = 50 feet

Figure IV-3

PROCESS	PROCESS DESCRIPTION/DETAILS
Receiving of Lime Slurry	Bulk lime slurry is received in from an approved supplier. Weight and pH is monitored upon receiving. This information is then transferred into our data base.
Bulk Slurry Lime Storage	Bulk lime slurry is temporarily stored in an approved holding tank for the lime stabilization treatment of domestic septage.
Receiving of Domestic Septage	Domestic septage will be delivered to the facility by customer pump trucks. A manifest will be provided by driver and all paperwork will be reviewed before product can be received in.
Septic Waste Tank	The septage will be pumped into facility via customers pump truck into the Facility's Septic Waste Tank. A flow meter will be used to measure gallons/per minute into the tank. All information will be entered into our database.
BAR(A) Screening	A bar screen (1/2 inch, carbon steele) at the top of the Facility's Septic Waste Tank is used to remove trash and other debris greater than 1/2 inch as septic flows into the Septic Waste Tank. The trash and other debris is manually removed from the top of the BAR (A) Screen once full.
Dumpster	The trash and debris manually removed from the top of the BAR (A & B) screens are placed into a dumpster, which is managed by a contracted waste company.
TCEQ Approved Landfill	The contracted waste company disposes of the septic waste and debris at a TCEQ-approved landfill
Transfer of Waste	Electric pumps will then move the septic waste through an additional bar screen and into the Pro

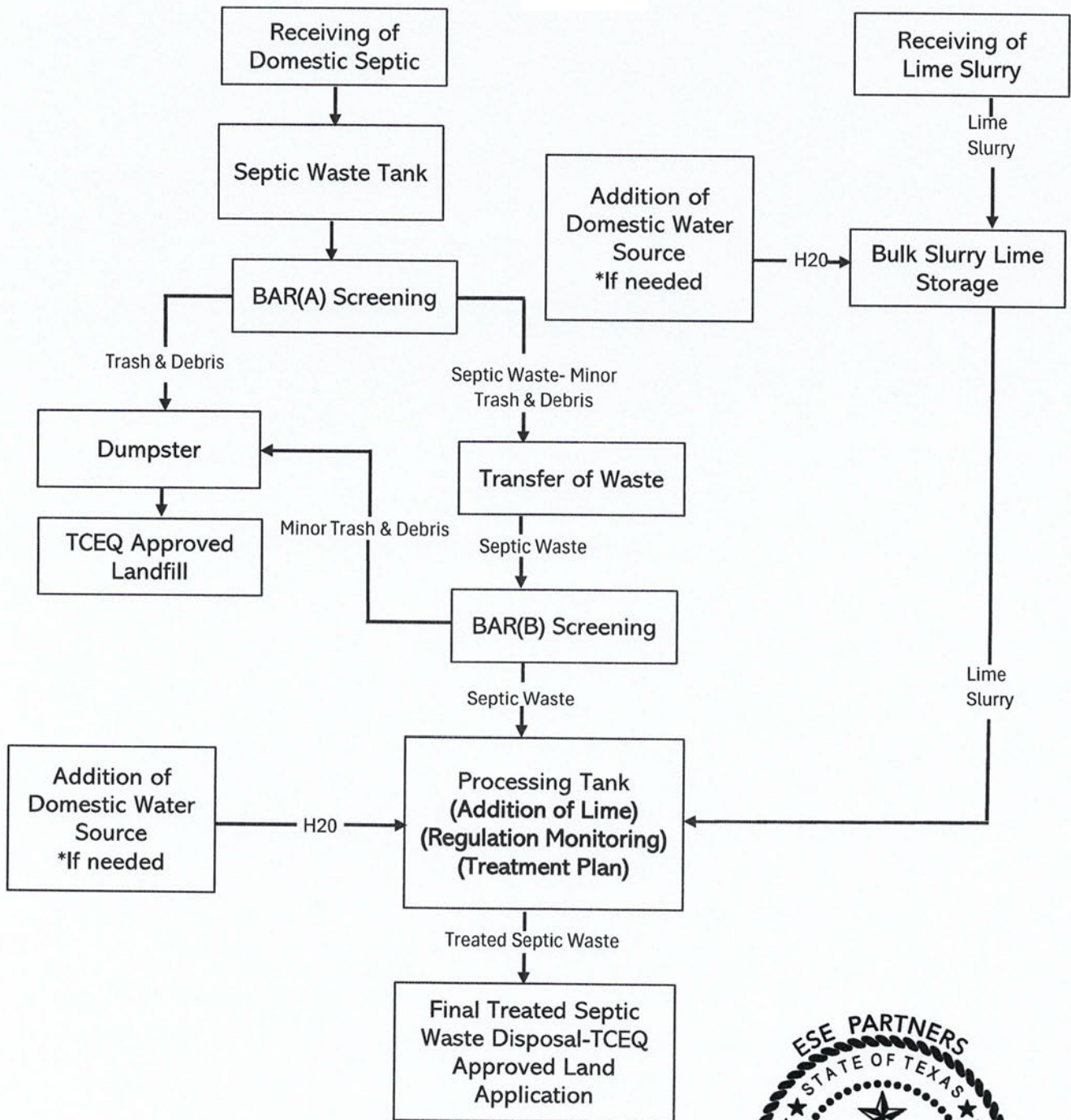


F-10131

*[Handwritten Signature]*  
7/10/25

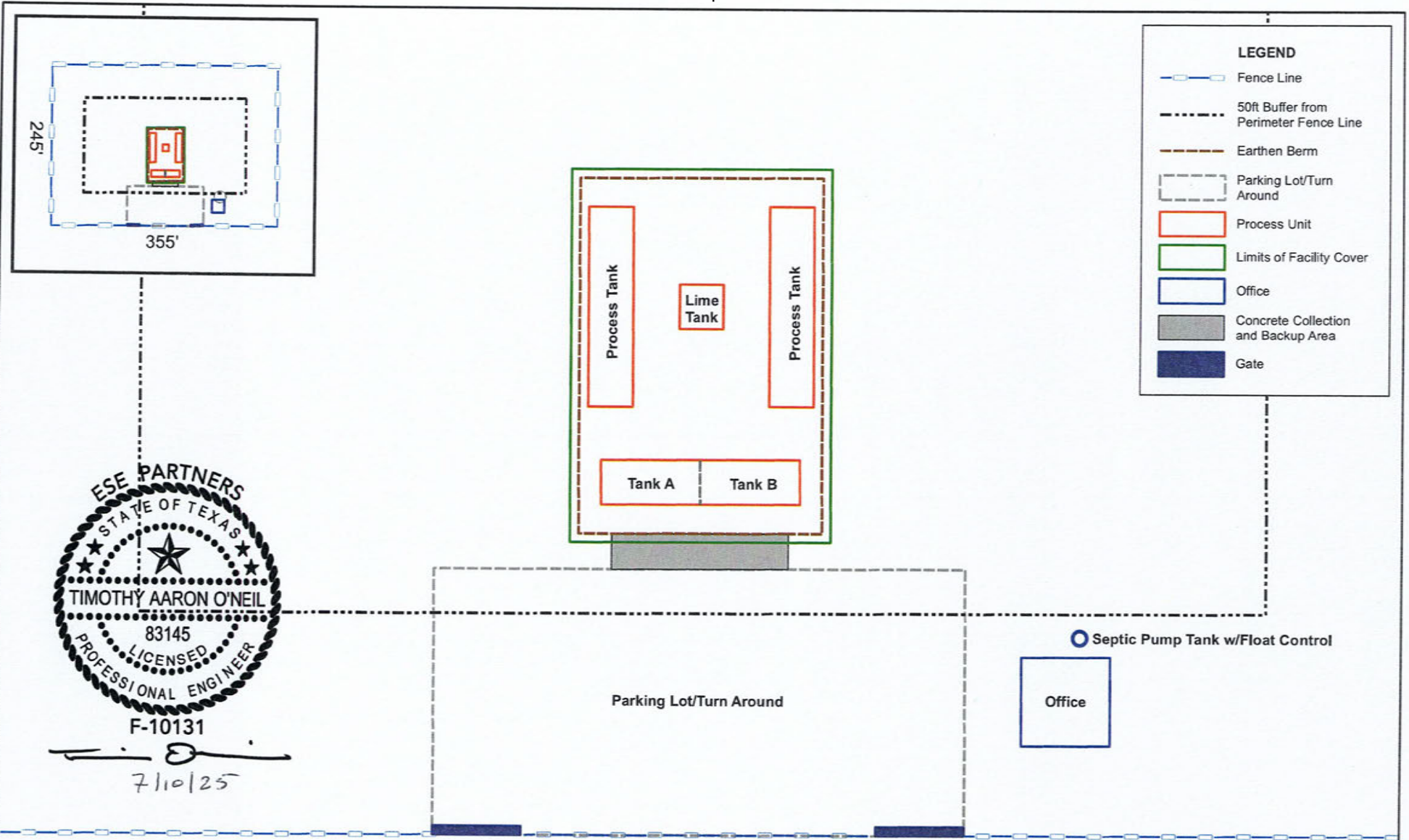
<p><b>BAR(B) Screening</b></p>	<p>A bar screen (1/4 inch, carbon steele) at the top of the Facility's Processing Tank is used to remove remaining minor trash and other debris greater than (1/4 inch) as septic flows into the Processing Tank. The remaining minor trash and other debris is manually removed from the top of the BAR (B) Screen once full and also placed in the dumpster for disposal by a contracted waste company and the waste company hauls it to a TCEQ Approved Landfill.</p>
<p><b>Processing Tank (Addition of Lime) (Regulation Monitoring) (Treatment Plan)</b></p>	<ul style="list-style-type: none"> <li>● Addition of Lime- Slurry lime is added to domestic septage for lime stabilization to properly neutralize sewage odors. The lime is pumped into processing tank with domestic septage and re-circulated via pumps for blending.</li> <li>● A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes. <b>*This is a requirement.*</b></li> <li>● Treatment Plan- If pH is too low and fails to meet above standard, more slurry lime must be added. This corrective action will be documented.</li> </ul>
<p><b>Addition of Domestic Water Source *If needed.</b></p>	<p>Water is added if needed at two processing points (Bulk Slurry Lime Storage and at Processing Tank) as a further processing aid.</p>
<p><b>Final Treated Septic Waste Disposal-TCEQ Approved Land Application</b></p>	<p>Once treated septic waste pH meets listed requirements, the treated septic will be pumped onto a TCEQ approved BFU (Beneficial Land Unit) site.</p>





F-10131

7/10/25




*[Signature]*  
7/10/25

AUSTIN COUNTY WASTE SOLUTIONS  
AUSTIN COUNTY, TEXAS

**PLANNED FACILITY LAYOUT**

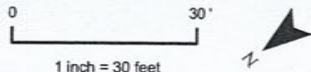
PROJECT NUMBER: 24-1353-1  
FILE NAME: FIGURE\_2\_SitePlan  
DATE: 6/24/2025  
DRAWN BY: LS  
APPROVED BY: TO



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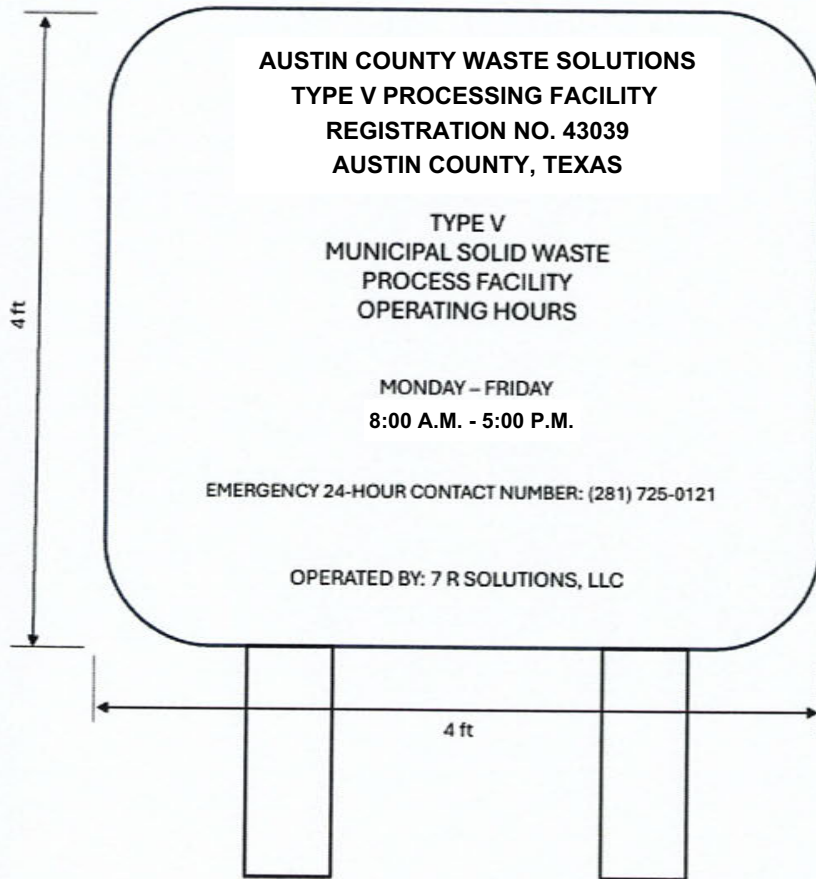
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Source: Aerial Imagery Provided by Google

**FIGURE IV-4**

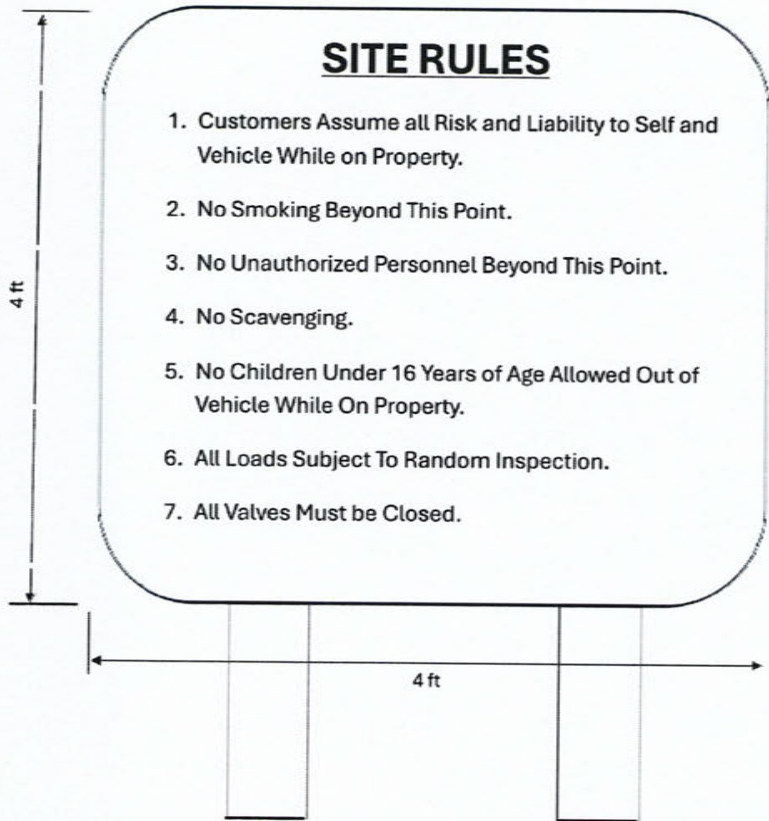


0 30'  
1 inch = 30 feet

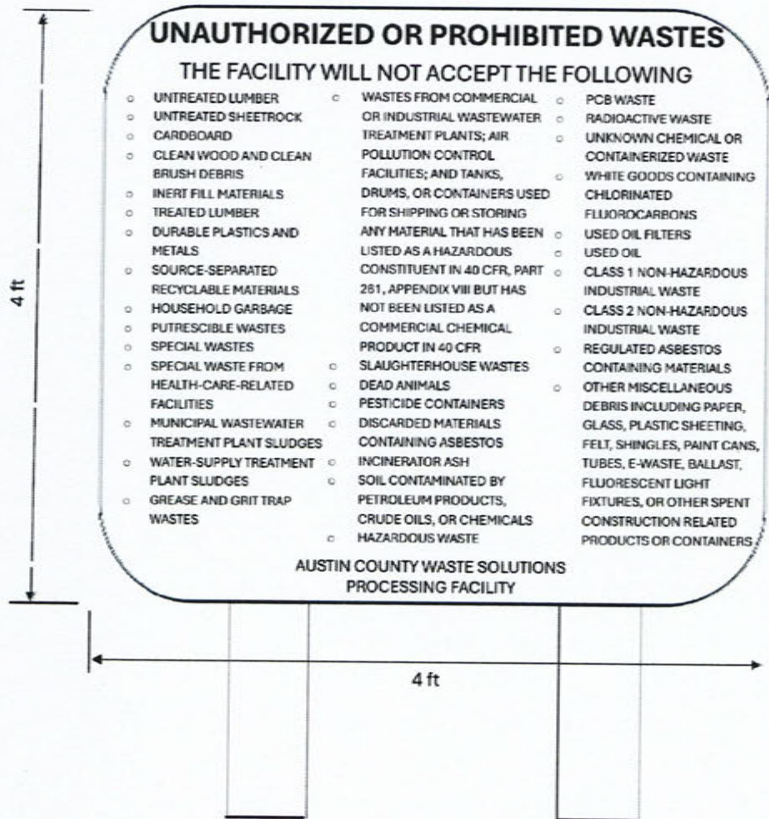




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<b>Prepared for:</b> 7 R Solutions, LLC	
Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-facilitysign.pdf	<b>IV-6</b>



Legend:	
Seal:	
 <i>7/10/25</i>	
Title:	
<b>Facility Rules</b> AUSTIN COUNTY WASTE SOLUTIONS Type V REGISTRATION APPLICATION Austin County, Texas	
Prepared for:	
7 R Solutions, LLC	
Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility- facilityrules.pdf	<b>IV-7</b>



Legend:

Seal:

7/10/25

N

Title:  
 Prohibited Waste  
 AUSTIN COUNTY WASTE SOLUTIONS  
 Type V REGISTRATION APPLICATION  
 Austin County, Texas

Prepared for:  
 7 R Solutions, LLC

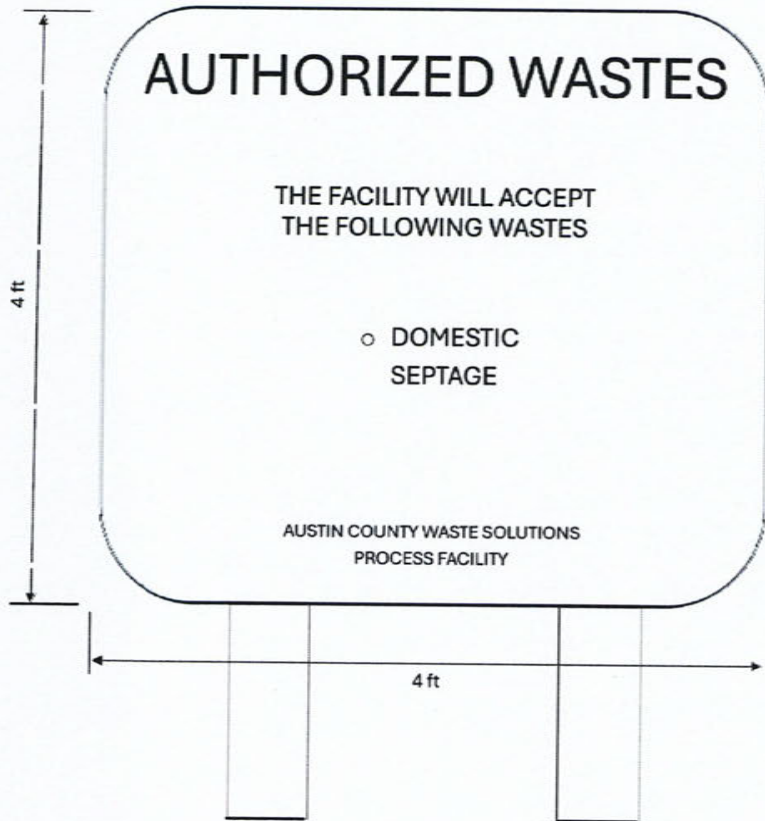
Completed by: BMG Date: 01/02/25

Prepared by: BMG Scale: AS SHOWN

Revised:

File:  
 ACWS Liquid Processing Facility-  
 Prohibwaste.pdf

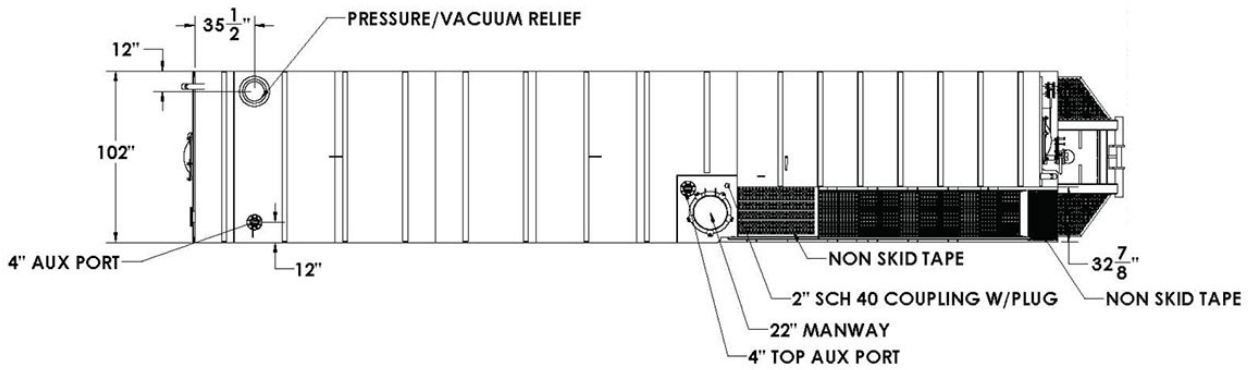
Figure:  
 IV-8



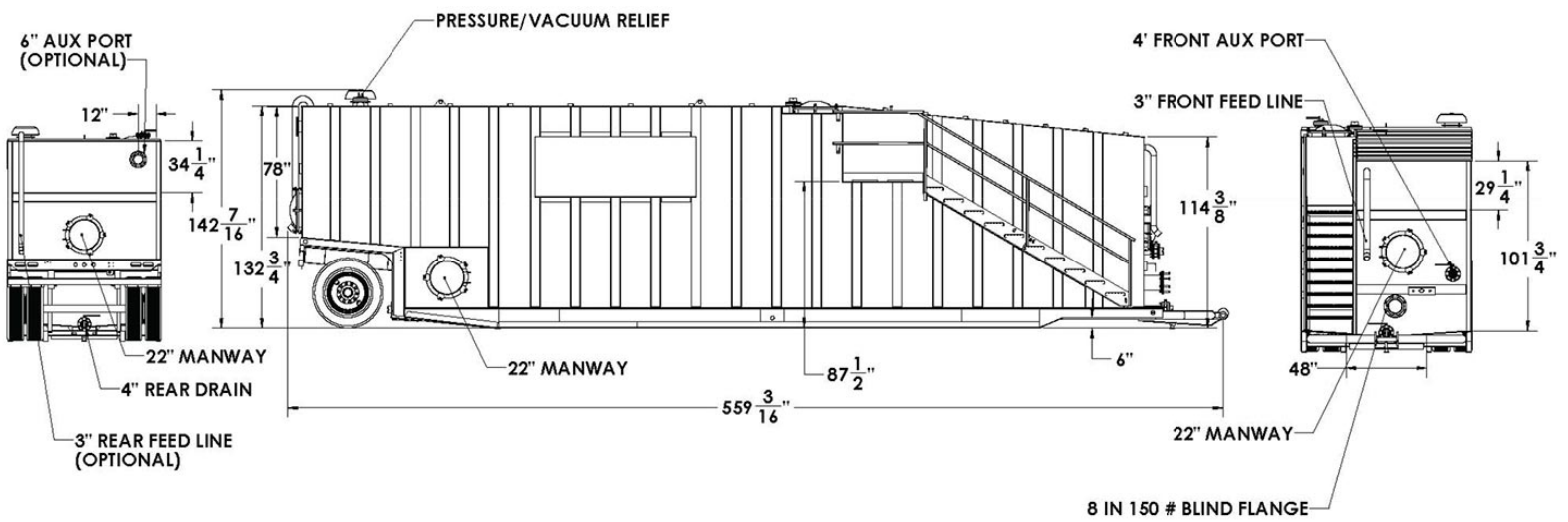
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Seal:	
7/10/25	
Title:	
<b>Authorized Waste</b> AUSTIN COUNTY WASTE SOLUTIONS Type V REGISTRATION APPLICATION Austin County, Texas	
Prepared for:	
7 R Solutions, LLC	
Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure: <b>IV-9</b>
File: ACWS Liquid Processing Facility- authwaste.pdf	

# Austin County Waste Solutions

## Frac Tank Drawings



FT-452\_MAIN





BASIC SELF-PRIMING CENTRIFUGAL PUMP



Model: T4A60S-B

Various Patents Apply

Pump Specifications

Size	4" x 4" (101 mm x 101 mm) NPT - Female
Impeller Type	Semi-Open, Two Vane
Solids-Handling Capability	3" (76,2 mm) Spherical Diameter
Seal Type	Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Maximum Operating Pressure	86 psi (593 kPa)*
Max Temp of Liquid Pumped	160°F (71°C).*

Pump Materials

Casing	Gray Iron 30
Impeller	Ductile Iron 65-45-12
Impeller Shaft	Alloy Steel 4150
Shaft Sleeve	Alloy Steel 4130
Seal: Stationary Face	Silicon Carbide
Rotating Face	Silicon Carbide
Elastomer	Fluorocarbon FKM, (Viton® or Equivalent)
Replaceable Wear Plate:	Carbon Steel ASTM A36
Removable Adjustable Cover Plate	Gray Iron 30
Removable Inspection Cover Plate	Gray Iron 30 – 12 lbs. (5,4 kg.)
Flap Valve	Neoprene with Nylon and Steel Reinforcing
Seal Plate	Gray Iron 30
Bearing Housing	Gray Iron 30
Flanges	Gray Iron 30
Gaskets	Buna-N, with Compressed Synthetic Fiber, Vegetable Fiber, PTFE, Cork and Rubber
O-Rings	Buna-N
Hardware	Standard Plated Steel

\*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

**Standard Equipment:** Brass Pressure Relief Valve, Bearing and Seal Cavity Oil Level Sight Gauges.

**Optional Equipment:** Automatic Air Release Valve, Metal Bellows Seal, 120V/240V Casing Heater, High Pump Temperature Shutdown Kit, Drain Kit, Gauge Kit.  
Suction and Discharge Spool Flanges:

- 4" ASA (Specify Model T4A60S-B /F)
- 100 mm DIN 2527 – PN 16 (Specify Model T4A60S-B /FM).



Shown with Optional Suction and Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

Super T Series Features and Benefits

**Easy To Service And Maintain** - Pump is mounted above liquid being pumped with only the suction line down in liquid.

**Dual Bearing Protection** – An atmospheric barrier along with two lip seals provide additional protection of the pump bearings (not available on 2" models).

**Inspection Cover** – Patented, lightweight inspection cover for easy access to the impeller without removing the entire backcover plate or piping (2" – 8" models).

5 Year Super T Series Warranty

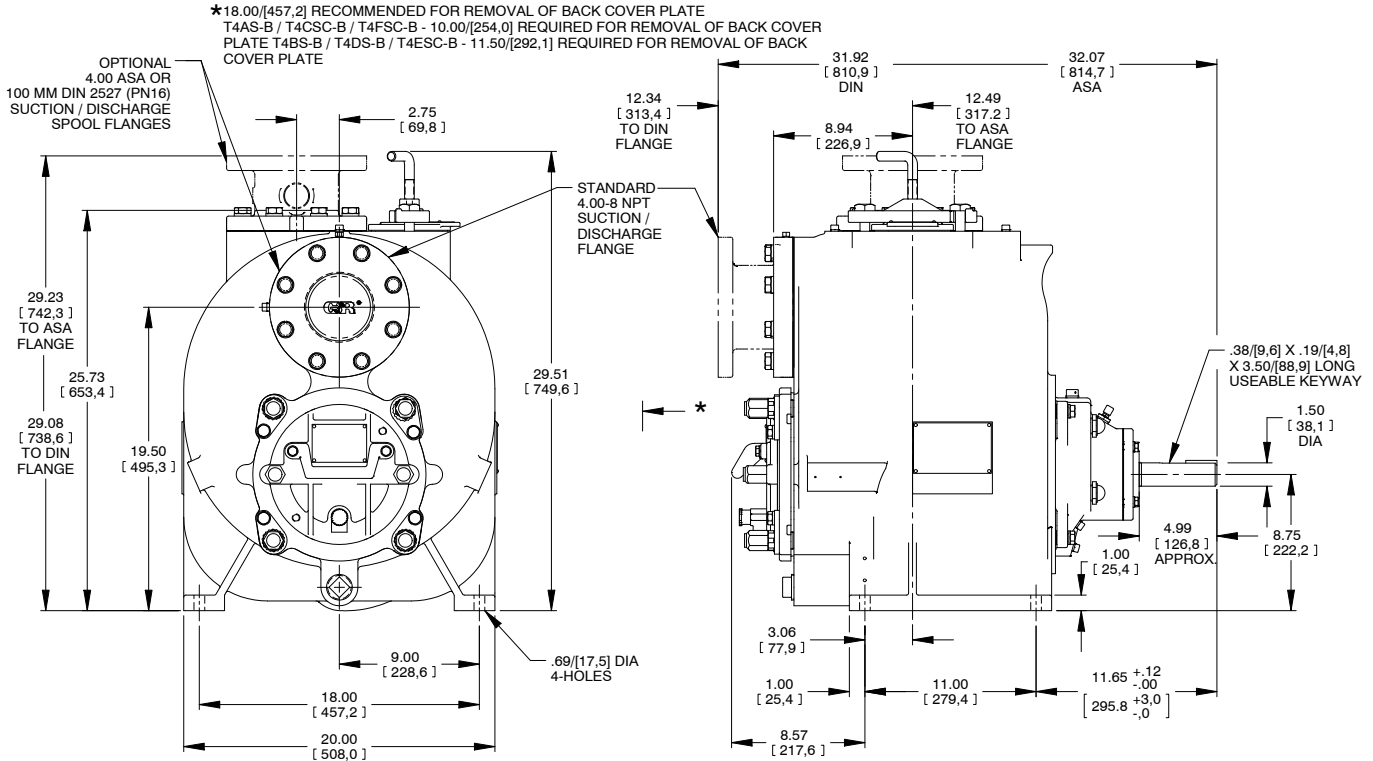
**Up To 3" Diameter Spherical Solids Handling** (4" – 10" models).

**Removable Rotating Assembly** – The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

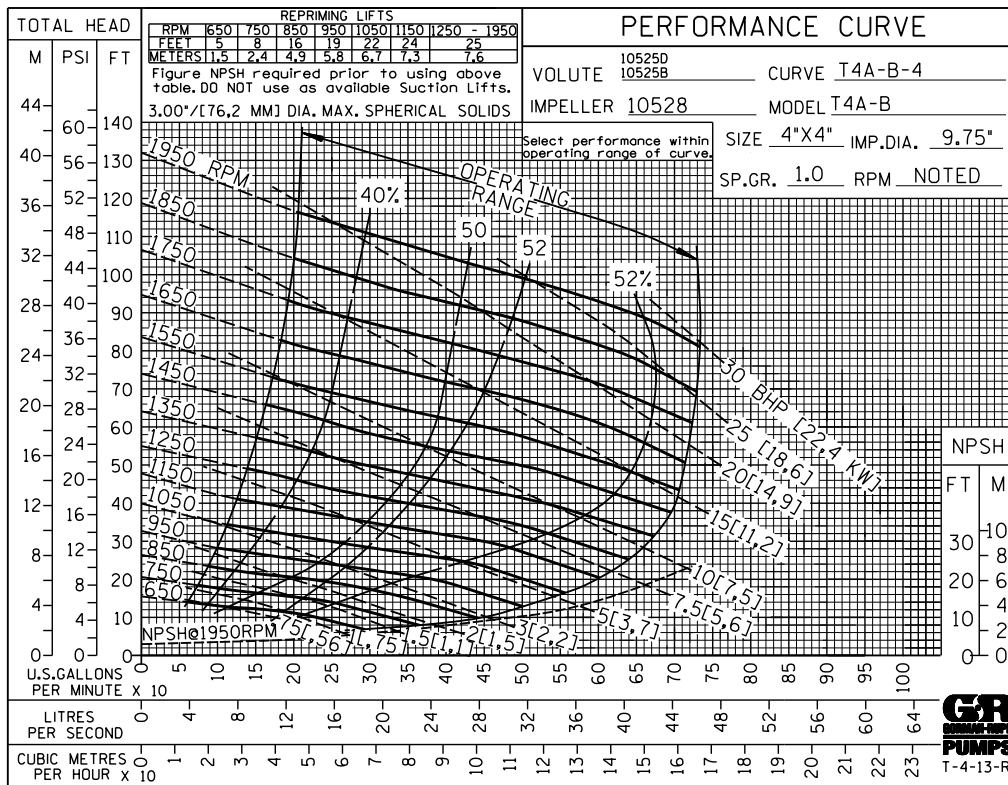
### APPROXIMATE DIMENSIONS AND WEIGHTS

<b>NET WEIGHT</b>	607 LBS. (275 KG.)*
<b>SHIPPING WEIGHT</b>	632 LBS. (286 KG.)*
<b>EXPORT CRATE</b>	22.7 CU. FT. (0,64 CU. M.)

\*Add 15 LBS. (6,8 KG.) w/each spool flange



NOTE: OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE



SPECIFICATION DATA



BASIC SELF-PRIMING CENTRIFUGAL PUMP



Model: T6A60S-B

Various Patents Apply

PUMP SPECIFICATIONS

Size	6" x 6" (152 mm x 152 mm) NPT - Female
Impeller Type	Semi-Open, Two Vane
Solids-Handling Capability	3" (76,2 mm) Spherical Diameter
Seal Type	Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Maximum Operating Pressure	79 psi (545 kPa)*
Max Temp of Liquid Pumped	160°F (71°C).*

PUMP MATERIALS

Casing	Gray Iron 30
Impeller	Ductile Iron 65-45-12
Impeller Shaft	Alloy Steel 4150
Shaft Sleeve	Alloy Steel 4130
Seal: Stationary Face	Silicon Carbide
Rotating Face	Silicon Carbide
Elastomer	Fluorocarbon FKM, (Viton® or Equivalent)
Replaceable Wear Plate:	Carbon Steel ASTM A36
Removable Adjustable Cover Plate	Gray Iron 30
Removable Inspection Cover Plate	Gray Iron 30 – 20 lbs. (9,1 kg.)
Flap Valve	Neoprene with Nylon and Steel Reinforcing
Seal Plate	Gray Iron 30
Bearing Housing	Gray Iron 30
Flanges	Gray Iron 30
Gaskets	Buna-N, with Compressed Synthetic Fiber, Vegetable Fiber, PTFE, Cork and Rubber
O-Rings	Buna-N
Hardware	Standard Plated Steel

\*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

**Standard Equipment:** Brass Pressure Relief Valve, Bearing and Seal Cavity Oil Level Sight Gauges.

**Optional Equipment:** Automatic Air Release Valve, Metal Bellows Seal, 120V/240V Casing Heater, High Pump Temperature Shutdown Kit, Drain Kit, Gauge Kit. Suction and Discharge Spool Flanges:

- 6" ASA (Specify Model T6A60S-B /F)
- 150 mm DIN 2527 – PN 16 (Specify Model T6A60S-B /FM).



Shown with Optional Suction and Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

Super T Series Features and Benefits

**Easy To Service And Maintain** - Pump is mounted above liquid being pumped with only the suction line down in liquid.

**Dual Bearing Protection** – An atmospheric barrier along with two lip seals provide additional protection of the pump bearings (not available on 2" models).

**Inspection Cover** – Patented, lightweight inspection cover for easy access to the impeller without removing the entire backcover plate or piping (2" – 8" models).

5 Year Super T Series Warranty

**Up To 3" Diameter Spherical Solids Handling** (4" – 10" models).

**Removable Rotating Assembly** – The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

### APPROXIMATE DIMENSIONS AND WEIGHTS

<b>NET WEIGHT</b>	880 LBS. (399 KG.)*
<b>SHIPPING WEIGHT</b>	970 LBS. (440 KG.)*
<b>EXPORT CRATE</b>	32.5 CU. FT. (0,92 CU. M.)

\*Add 25 LBS. (11,3 KG.) w/each spool flange

★18.00/[457,2] RECOMMENDED FOR REMOVAL OF BACK COVER PLATE  
 T6AS-B / T6CSC-B - 11.00/[279,4] REQUIRED FOR REMOVAL OF BACK COVER PLATE  
 T6BS-B / T6DS-B / T6ESC-B / T6FSC-B - 12.00/[304,8] REQUIRED FOR REMOVAL OF BACK COVER PLATE

