TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

1

APPLICANT: Quadvest, LP

PERMIT NUMBER:

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

	¥	ĪN		Y	N
Administrative Report 1.0	\boxtimes	口	Original USGS Map	\boxtimes	
Administrative Report 1.1	\boxtimes		Affected Landowners Map	\boxtimes	
SPIF	\boxtimes	X.	Landowner Disk or Labels	\boxtimes	(3) (3)
Core Data Form	\boxtimes		Buffer Zone Map	\boxtimes	
Technical Report 1.0	\boxtimes		Flow Diagram		Ш
Technical Report 1.1	\boxtimes		Site Drawing	\boxtimes	
Worksheet 2.0		\boxtimes	Original Photographs	\boxtimes	
Worksheet 2.1		\boxtimes	Design Calculations	\boxtimes	
Worksheet 3.0		\boxtimes	Solids Management Plan	\boxtimes	
Worksheet 3.1		\boxtimes	Water Balance		\boxtimes
Worksheet 3.2	Ė	\boxtimes			
Worksheet 3.3		\boxtimes			
Worksheet 4.0	[pl	\boxtimes			
Worksheet 5.0	53 to 55 (1) july 10 (1) july 10 july	\boxtimes			
Worksheet 6.0	195,279 P	\boxtimes			
Worksheet 7.0	ESSENT BROWN	\boxtimes			

For TCEQ Use Or Segment Number		(County			
Expiration Date _ Permit Number _		-11 \ Special St. 15 . 17 . 15 . 18	Region _			



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <u> </u>	\$315.00
≥0.05 but <0.10 MGD	\$550.00	\$515.00
≥0.10 but <0.25 MGD	\$850.00	\$815.00
≥0.25 but <0.50 MGD	\$1,250.00 ☒	\$1,215.00
≥0.50 but <1.0 MGD	\$1,650.00	\$1,615.00
≥1.0 MGD	\$2,050.00	\$2,015.00

Minor Amendment (for any flow) \$150.00

Payment Information:

Mailed Check/Money Order Number:

Check/Money Order Amount: \$1,250.00

Name Printed on Check: Quadvest, LP

EPAY Voucher Number:

Copy of Payment Voucher enclosed?

Yes 🗵

Section 2. Type of Application (Instructions Page 29)

Major Amendment <u>with</u> Renewal Minor Amendment <u>with</u> Renewal

Major Amendment <u>without</u> Renewal Minor Amendment <u>without</u> Renewal

🖺 Renewal without changes 🗓 Minor Modification of permit

For amendments or modifications, describe the proposed changes:

For existing permits:

Permit Number: WQ00

EPA I.D. (TPDES only): TX

Expiration Date:

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 29)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

Quadvest, LP

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/

CN: 602944746

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

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

First and Last Name: Mark Urback

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Executive Manager of Engineering and Construction

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

(The legal name must be spelled exactly as filed with

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix (Mr., Ms., Miss):

First and Last Name:

Credential (P.E, P.G., Ph.D., etc.):

Title: }

Provide a brief description of the need for a co-permittee:

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0.

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A.	Prefix (Mr., Ms., Miss): Mr.
	First and Last Name: <u>Mark Urback</u>
	Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: Executive Manager of Engineering and Construction
	Organization Name: <u>Quadvest, LP</u>
	Mailing Address: 26926 FM 2978
	City, State, Zip Code: <u>Magnolia, TX 77354</u>
	Phone No.: <u>281-356-5347</u> Ext.: Fax No.:
	E-mail Address: murback@quadvest.com
	Check one or both: Administrative Contact Technical Contact
В.	Prefix (Mr., Ms., Miss):
	First and Last Name:
	Credential (P.E, P.G., Ph.D., etc.):
	Title:
	Organization Name:
	Mailing Address:
	City, State, Zip Code:
	Phone No.: Ext.: Fax No.:
	E-mail Address:
	Check one or both: Administrative Contact Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: <u>Mark Urback</u> Credential (P.E. P.G., Ph.D., etc.): <u>P.E.</u>

Title: Executive Manager of Engineering and Construction

Organization Name: <u>Quadvest, LP</u> Mailing Address: <u>26926 FM 2978</u>

City, State, Zip Code: Magnolia, TX 77354

Phone No.: <u>281-356-5347</u> Ext.: Fax No.:

E-mail Address: murback@quadvest.com

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

First and Last Name: <u>Tony Spears</u>

Credential (P.E, P.G., Ph.D., etc.):

Title: COO

Organization Name: <u>Quadvest, LP</u> Mailing Address: <u>26926 FM 2978</u>

City, State, Zip Code: Magnolia, TX 77354

Phone No.: <u>281-356-5347</u> Ext.: Fax No.:

E-mail Address: tspears@quadvest.com

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Mary Downey

Credential (P.E, P.G., Ph.D., etc.):

Title: <u>Controller</u>

Organization Name: <u>Quadvest, LP</u> Mailing Address: 26926 FM 2978

City, State, Zip Code: Magnolia, TX 77354

Phone No.: <u>281-356-5347</u> Ext.: Fax No.:

E-mail Address: mdowney@quadvest.com

Section 7. DMR/MER Contact Information (Instructions Page 31)

Provide the name and complete mailing address of the person delegated to receive and submit

Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: Margo Watson

Credential (P.E, P.G., Ph.D., etc.):

Title: Environmental Compliance / Safety Coordinator

Organization Name: <u>Quadvest, LP</u> Mailing Address: <u>26926 FM 2978</u>

City, State, Zip Code: Magnolia, TX 77354

Phone No.: 281-305-1154 Ext.: Fax No.:

E-mail Address: mwatson@quadvest.com

DMR data is required to be submitted electronically. Create an account at:

https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Mark Urback

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Managing Engineer

Organization Name: <u>Quadvest, LP</u>
Mailing Address: <u>26926 FM 2978</u>

City, State, Zip Code: Magnolia, TX 77354

Phone No.: <u>281-356-5347</u> Ext.: Fax No.:

E-mail Address: murback@quadvest.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

⊠ E-mail Address

☐ Fax

🖺 Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Mark Urback

Credential (P.E. P.G., Ph.D., etc.): P.E.

Title: Executive Manager of Engineering and Construction

Organization Name: Quadvest, LP

Phone No.: 281-356-5347 Ext.:

E-mail: murback@quadvest.com

D. Public Viewing Information

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

Public building name: Hempstead Library

Location within the building: Information Desk Physical Address of Building: 2331 11th Street

City: <u>Hempstead</u>

County: Waller

Contact Name: Librarian

Phone No.: 979-826-7658 Ext.:

E. Bilingual Notice Requirements:

This information is required for new, major amendment, and renewal applications. It is not required for minor amendment or minor modification applications.

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

Yes

No

If no, publication of an alternative language notice is not required; skip to Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

No

3. Do the students at these schools attend a bilingual education program at another location?

 \bigcirc Yes No

	4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
	Yes 🗵 No
	5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish
ς _ε	ction 9. Regulated Entity and Permitted Site Information (Instructions
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Page 33)
Α.	If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN
	Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.
B.	Name of project or site (the name known by the community where located):
	<u>Trails at Cochran Ranch Wastewater Treatment Plant</u>
C.	Owner of treatment facility: <u>Quadvest, LP</u>
	Ownership of Facility: Public Private Both Federal
D.	Owner of land where treatment facility is or will be:
	Prefix (Mr., Ms., Miss):
	First and Last Name: <u>Quadvest, LP</u>
	Mailing Address: <u>26926 FM 2978</u>
	City, State, Zip Code: Magnolia, TX 77354
	Phone No.: <u>281-356-5347</u> E-mail Address:
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment:
E.	Owner of effluent disposal site:
	Prefix (Mr., Ms., Miss):
	First and Last Name:
	Mailing Address:
	City, State, Zip Code:
	Phone No.: E-mail Address:
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment:

F.	Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):
	Prefix (Mr., Ms., Miss):
	First and Last Name: [10] [1]
	Mailing Address:
	City, State, Zip Code:
	Phone No.: E-mail Address:
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment:
Se	ction 10. TPDES Discharge Information (Instructions Page 34)
Α.	Is the wastewater treatment facility location in the existing permit accurate?
	☑ Yes ☑ No
	If no , or a new permit application , please give an accurate description:
	Approximately 2.8 miles south of the intersection of Cochran Road and Betka Road 6.5 miles southwest of Waller, Texas.
	innes southwest of wanti, Texas.
В.	Are the point(s) of discharge and the discharge route(s) in the existing permit correct?
	Yes No
	If no , or a new or amendment permit application , provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in
	30 TAC Chapter 307:
	From the facility via effluent pipe thence to detention pond to an unnamed tributary, then to Harris Creek then to Brazos River.
	City nearest the outfall(s): <u>Waller</u>
	County in which the outfalls(s) is/are located: Waller
	Outfall Latitude: 29°58′50.70″ N Longitude: 95°59′29.64″ W
C.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
	Yes 🖾 No
	If yes , indicate by a check mark if:
	Authorization granted Authorization pending
	For new and amendment applications, provide copies of letters that show proof of contact
	and the approval letter upon receipt.
	000009

	Attachment:
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.
Se	ection 11. TLAP Disposal Information (Instructions Page 36)
2 × 12 ***	
Α.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate? Yes No
	If no, or a new or amendment permit application , provide an accurate description of the
	disposal site location:
В.	City nearest the disposal site:
C.	County in which the disposal site is located:
	Disposal Site Latitude: Longitude:
E.	For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:
	·
F.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:
Se	ction 12. Miscellaneous Information (Instructions Page 37)
Α.	Is the facility located on or does the treated effluent cross American Indian Land?
	Yes No
В.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	Yes No Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit

	application, provide an accurate location description of the sewage sludge disposal site.
C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	Yes No
	If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:
D.	Do you owe any fees to the TCEQ?
	Yes No
	If yes , provide the following information:
	Account number: Amount past due:
E.	Do you owe any penalties to the TCEQ?
	Yes No
	If yes , please provide the following information:
	Enforcement order number: Amount past due:
S _C	ection 13. Attachments (Instructions Page 38)
عرت	edon 13. Addenmento (montredono 1 age 30)

Indicate which attachments are included with the Administrative Report. Check all that apply:

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- Original full-size USGS Topographic Map with the following information:
 - Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)
 - Highlighted discharge route for each discharge point (TPDES only)
 - Onsite sewage sludge disposal site (if applicable)
 - Effluent disposal site boundaries (TLAP only)
 - New and future construction (if applicable)
 - 1 mile radius information

- 3 miles downstream information (TPDES only)
- All ponds.
- Attachment 1 for Individuals as co-applicants
- Other Attachments. Please specify:

Section 14. Signature Page (Instructions Page 39)

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

Permit Number:

Applicant: Quadvest, LP

Certification:

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

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

Signatory name (typed or printed): Mark Urback

Signatory title: Executive Manager of Engineering and Construction

Signature:
(Use blue ink)
Subscribed and Sworn to before me by the said 1 FR L URACK
on this day of Colors , 20 77 .
My commission expires on the $\sqrt{3}$ day of $\sqrt{203}$.
APRIL H. TRADER Notary Public, State of Texas See Gemm-Expires 07-21-2023

County, Texas

000013

Notary ID 11681012

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

		하는데 있으면 하는데
A.		icate by a check mark that the landowners map or drawing, with scale, includes the owing information, as applicable:
	X	The applicant's property boundaries
		The facility site boundaries within the applicant's property boundaries
	Ø	The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
		The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
	×	The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
		The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
		The property boundaries of all landowners surrounding the effluent disposal site
		The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
В.	⊠ addı	Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.
C.	Indi	cate by a check mark in which format the landowners list is submitted:
	Ş	Readable/Writeable CD 🔯 Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Waller-CAD

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

Yes No

If yes, provide the location and foreseeable impacts and effects this application has on the

land(s):	

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

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

Section 3. Buffer Zone Map (Instructions Page 44)

- A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.
 - The applicant's property boundary;
 - The required buffer zone; and
 - Each treatment unit; and
 - The distance from each treatment unit to the property boundaries.
- B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.
 - 🛭 Ownership
 - Restrictive easement
 - Nuisance odor control
 - Variance
- **C.** Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?
 - 🗵 Yes 🗵 No

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

Texas Commission on Environmental Quality Financial Administration Division

Cashier's Office, MC-214 12100 Park 35 Circle Austin, Texas 78753

Fee Code: WQP Waste Permit No:

1. Check or Money Order Number: 11619

2. Check or Money Order Amount: \$1,250.00

3. Date of Check or Money Order: 10/18/2012.

4. Name on Check or Money Order: Quadvest, LP

5. APPLICATION INFORMATION

Name of Project or Site: Trails of Cochran Ranch Wastewater Treatment Plant

Physical Address of Project or Site: <u>Approximately 2.8 miles south of the intersection of Cochran Road and Betka Road 6.5 miles southwest of Waller. Texas.</u>

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

Staple Check or Money Order in This Space

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PLAIN LANGUAGE SUMMARY

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

Quadvest, LP (CN602944746) proposes to operate the Trails at Cochran wastewater treatment plant (RN111604286), an activated sludge process plant to be operated in the conventional plug flow mode. The facility will be located at approximately 2.8 miles south of the intersection of Cochran Road and Betka Road and 0.5 miles southwest of Waller, Waller County, Texas.

This application is for a new application to discharge at a daily average flow of 250,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3 -N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

RESUMEN EN LENGUAJE SENCILLO

El siguiente resumen se proporciona para esta solicitud pendiente de permiso de calidad del agua que está siendo revisada por la Comisión de Calidad Ambiental de Texas como lo requiere 30 Código Administrativo de Texas, Capítulo 39. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones ejecutables federales de la solicitud de permiso.

Quadvest, LP (CN 602944746) propone operar la planta de tratamiento de aguas residuales Trails at Cochran (RN 111604286), una planta de proceso de lodos activados que se operará en el modo de flujo de tapón convencional. Lainstalación estará ubicada aproximadamente a 2.8 millas al sur de la intersección de Cochran Road y Betka Road y 0.5 millas al suroeste de Waller, condado de Waller, Texas.

Esta aplicación es para una nueva aplicación para descargar a un flujo promedio diario de 250,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan una demanda bioquímica de oxígeno carbonoso de cinco días ($CBOD_s$), sólidos suspendidos totales (TSS), nitrógeno amoníaco (NH 3-N) y Escherichia coli. Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de Contaminantes de Efluentes Tratados en el paquete de solicitud de permiso. Las aguas residuales domésticas serán tratadas por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barra, una cámara de arena, cuencas de aireación, clarificadores finales, digestores de lodos, una prensa de filtro de banda, cámaras de contacto con cloro y una cámara de decloración.



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 check Completion of the rea	ted, a Public Involvement Plan is not necessary. naining sections not required.
Section 2. Secondary Screening	
 ☒ Requireş public notice, ☐ Considered to have significant public into ☒ Located within any of the following geog Austin San Antonio 	,
• Dallas • West Texas	
 Fort Worth Texas Panha 	ndle
• Houston • Along the Te	xas/Mexico Border
 Other geographical locations should 	l be decided on a case-by-case basis
afte	a Public Involvement Plan is not necessary. Stöp er Section 2.
☐ Public Involvement Plan not applicable to	o this application. Provide brief explanation.
Section 3. Application Information	
Type of Application (check all that apply)	:
Air □ Initial □ Federal □ Amendmen	nt □ Standard Permit □ Title V
Waste □ Municipal Solid Waste □ Radioactive Materials Licensing	☐ Industrial and Hazardous Waste ☐ Underground Injection Controls

TCEQ-20960 (10-10-2022)

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. Gensus 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)

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(Census Tract)
Please indicate which of these three is the level used for gathering the following information. □ City □ County □ Census Tract
Li Census Trace
(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
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?
(a) Is this application subject to the public participation requirements of Title 30 Texas
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?
(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
(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?
(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.
(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,
(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.
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(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
(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.

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☐ 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 \(\text{No} \) 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)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY **DOMESTIC WASTEWATER PERMIT APPLICATION**

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications
Renewal, New, And Amendment

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 0.0625

2-Hr Peak Flow (MGD): <u>0.25</u>

Estimated construction start date: 2023

Estimated waste disposal start date: 2023

B. Interim II Phase

Design Flow (MGD): 0.125

2-Hr Peak Flow (MGD): <u>0.50</u>

Estimated construction start date: 2024

Estimated waste disposal start date: <u>2025</u>

C. Final Phase

Design Flow (MGD): 0.25

2-Hr Peak Flow (MGD): <u>1.00</u>

Estimated construction start date: 2026

Estimated waste disposal start date: 2027

D. Current operating phase: None

Provide the startup date of the facility: None

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

Provide a detailed description of the treatment process. Include the type of

treatment plant, mode of operation, and all treatment units. Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. If more than one phase exists or is proposed in the permit, a description of each phase must be provided. Process description:

Attachment I			
		•	

Port or pipe diameter at the discharge point, in inches: 12

B. Treatment Units

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

Table 1.0(1) - Treatment Units

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

C. Process flow diagrams

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

Attachment: K

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: 🗓

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

<u>Trails at Cochran Ranch Subdivision - a residential community with ±471 single family homes.</u>

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes 🗓

No ⊠

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

Yes 🖺

No 🗖

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

Section 5. Closure Plans (Instructions Page 53)
Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years? Yes No
If yes, was a closure plan submitted to the TCEQ?
Yes No I
If yes, provide a brief description of the closure and the date of plan approval.
Section 6. Permit Specific Requirements (Instructions Page 53)
For applicants with an existing permit, check the <i>Other Requirements</i> or <i>Special Provisions</i> of the permit.
A. Summary transmittal
Have plans and specifications been approved for the existing facilities and each proposed phase? Yes No No
If yes, provide the date(s) of approval for each phase:
Provide information, including dates, on any actions taken to meet a requirement or provision pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
B. Buffer zones
Have the buffer zone requirements been met? Yes 🗵 No 🗵

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

relevant to maintaining the buffer zones. Buffer Zone requirements will be met through property ownership and ROW easements.
C. Other actions required by the current permit
Does the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc. Yes No
If yes , provide information below on the status of any actions taken to meet the conditions of an <i>Other Requirement</i> or <i>Special Provision</i> .

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes ☐ No ☒

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

2. Grit and grease processing

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

★の作者学の意味の会社を記録できるとは、「全意別、近くかから、打き取得など目
3. Grit disposal
Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal? Yes No S
If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.
Describe the method of grit disposal.
4. Grease and decanted liquid disposal
Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.
Describe how the decant and grease are treated and disposed of after grit separation.
,
E. Stormwater management
1. Applicability
Does the facility have a design flow of 1.0 MGD or greater in any phase?
Yes No No
Does the facility have an approved pretreatment program, under 40 CFR Part
403?

Yes 🗵 No ⊠

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

2. MSGP coverage

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

Yes 🗆

No 🗖

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

TXR05 or TXRNE

If no, do you intend to seek coverage under TXR050000?

Yes 🗆

No 🗆

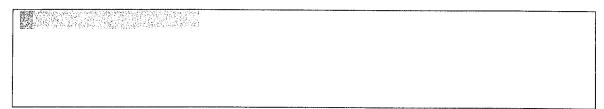
3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

Yes 🗖

No 🗓

If yes, please explain below then proceed to Subsection F. Other Wastes Received:



4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

Yes 🗵

No 🖾

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

5. Zero stormwater discharge
Do you intend to have no discharge of stormwater via use of evaporation of other means? Yes No No
If yes, explain below then skip to Subsection F. Other Wastes Received.

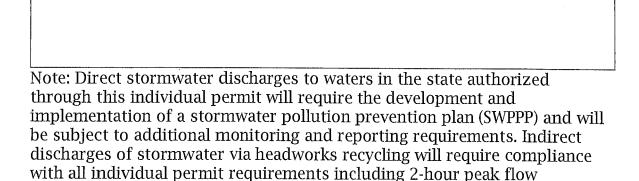
Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

Yes 🗆 No 🗐

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.



limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed? Yes No

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

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

Yes ■ No 🗵

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

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

Note: Permits that accept sludge from other wastewater treatment plants

may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes 🗖

No ⊠

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

Yes 🗍

No 🗆

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

Yes 🗒

No 🗆

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

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

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

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

Yes 🗆

No ⊠

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

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

Is the facility in operation? Yes ☑ No ☒

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

If yes, provide effluent analysis data for the listed pollutants. *Wastewater treatment facilities* complete Table 1.0(2). *Water treatment facilities* discharging filter backwash water, complete Table 1.0(3).

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

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average	Max	No. of	Sample	Sample
	Conc.	Conc.	Samples	Туре	Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l				.,,,,,,,,,	
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO₃)*, mg/l					

^{*}TPDES permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average	Max	No. of	Sample	Sample
	Conc.	Conc.	Samples	Type	Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Operator has not been chosen yet

Facility Operator's License Classification and Level: will be C or higher

Facility Operator's License Number:

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- Permitted landfill
- Permitted or Registered land application site for beneficial use

[†]TLAP permits only

Land application for beneficial use authorized in the wastewater permit Permitted sludge processing facility Marketing and distribution as authorized in the wastewater permit Composting as authorized in the wastewater permit Permitted surface disposal site (sludge monofill) Surface disposal site (sludge monofill) authorized in the wastewater permit Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application. Other:

B. Sludge disposal site

Disposal site name: Mt. Houston MUD WWTP

TCEQ permit or registration number: <u>WQ0011154001</u>

County where disposal site is located: Harris

C. Sludge transportation method

Method of transportation (truck, train, pipe, other): Truck

Name of the hauler: Magna Flow Environmental

Hauler registration number: 21489

Sludge is transported as a:

Liquid 🖾 🛚 s

semi-liquid 🖺

semi-solid

solid 🖺

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage

sludge for beneficial use? Yes No 🗵
If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use? Yes No No
If yes, is the completed Application for Permit for Beneficial Land Use of

If yes, is the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451) attached to this permit application (see the instructions for details)?

Yes 🖺 No 🗒

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Temporary storage in sludge lagoons Yes No No If yes to any of the above sludge options and the applicant is requesting to

continue this authorization, is the completed **Domestic Wastewater Permit Application:** Sewage Sludge Technical Report (TCEQ Form No. 10056) attached to this permit application?

ttached to this permit appli Yes No 🗓

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes 🗓 No 🗵

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

• Original General Highway (County) Map:

Attachment:

• USDA Natural Resources Conservation Service Soil Map:

Attachment:

 Federal Emergency Management Map:
Attachment:
• Site map:
Attachment:
Discuss in a description if any of the following exist within the lagoon area.
Check all that apply.
Overlap a designated 100-year frequency flood plain
Soils with flooding classification
Overlap an unstable area
Wetlands
Located less than 60 meters from a fault
None of the above
Attachment:
If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:
B. Temporary storage information
Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0. Nitrate Nitrogen, mg/kg:
Total Kjeldahl Nitrogen, mg/kg:
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:
Phosphorus, mg/kg:
Potassium, mg/kg:
pH, standard units:
Ammonia Nitrogen mg/kg:
Arsenic:

000038

Cadmium:
Chromium:
Copper:
Lead:
Mercury:
Molybdenum:
Nickel:
Selenium:
Zinc:
Total PCBs:
Provide the following information: Volume and frequency of sludge to the lagoon(s):
Total dry tons stored in the lagoons(s) per 365-day period:
Total dry tons stored in the lagoons(s) over the life of the unit:
C. Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^7$ cm/sec? Yes \square No \square
If yes, describe the liner below. Please note that a liner is required.
D. Site development plan
Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Attach the following documents to the application.

• Plan view and cross-section of the sludge lagoon(s)

Attachment:

• Copy of the closure plan

Attachment:

• Copy of deed recordation for the site

Attachment:

• Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

Attachment:

• Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment:

• Procedures to prevent the occurrence of nuisance conditions

Attachment:

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

Yes No No No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

Yes 🗆 No 🗵

If yes, provide the TCEQ authorization number and description of the authorization:

B. Permittee enforcement status
Is the permittee currently under enforcement for this facility? Yes No
Is the permittee required to meet an implementation schedule for compliance or enforcement? Yes No
If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

A. RCRA hazardous wastes

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

Yes □ No ☒

B. Remediation activity wastewater

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

Yes □ No ⊠

C. Details about wastes received

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

Attachment:

Section 14: Laboratory Accreditation (Instructions Page 64)

All laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

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

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

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

CERTIFICATION:

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

Printed Name: Fony Spears Mark Urback, P.E.

Title: 600 Executive Manager of Engineering and Construction

Signature:

Date: 10/27//2022

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

The proposed development will consist of 453 Equivalent Single Family Connections (ESFC). Initial lot delivery is scheduled for June 2023. Initial home sales will bein in November 2023. Expected sales are 20 single family residences per month based on an average wastewater flow per household of 300 gpd the required plant capacity of 189,000 gpd is required. The ultimate capacity of 0.250 MGD allows for regional sewer capacity for anticipated commercial development near the service area.

B. Regionalization of facilities

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

Yes No Not Applicable

If yes, within the city limits of:

If yes, attach correspondence from the city.

Attachment:

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment:

2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area?

Yes 🗖

No ⊠

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment:

3. Nearby WWTPs or collection systems

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

Yes 🔲

No 🛛

If yes, attach a list of these facilities that includes the permittee's name and permit number, and an area map showing the location of these facilities.

Attachment:

If yes, attach copies of your certified letters to these facilities and their response letters concerning connection with their system.

Attachment:

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes 🗖

No ⊠

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment:

Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes 🗇

No ⊠

If no, proceed to Item B, Proposed Organic Loading.

000044

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading
Facility Design Flow (flow being requested in application):
Average Influent Organic Strength or BOD ₅ Concentration in mg/

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34):

average organic strength or BOD5 concentration.

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Municipality		
Subdivision	0.250	275
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,	,	

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
no showers		
Recreational park, overnight use		
Recreational park, day use		·
Office building or		
factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all	0.250	
sources		
AVERAGE BOD₅ from all sources		275

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: $\underline{15}$

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other:	
B. Interim II Phase Design Effluent Quality	
Biochemical Oxygen Demand (5-day), mg/l: <u>10</u>	
Total Suspended Solids, mg/l: <u>15</u>	
Ammonia Nitrogen, mg/l:	
Total Phosphorus, mg/l:	
Dissolved Oxygen, mg/l:	
Other:	
C. Final Phase Design Effluent Quality	
Biochemical Oxygen Demand (5-day), mg/l: $\underline{10}$	
Total Suspended Solids, mg/l: <u>15</u>	
Ammonia Nitrogen, mg/l: 🖺	
Total Phosphorus, mg/l:	
Dissolved Oxygen, mg/l:	
Other:	=
D. Disinfection Method	
Identify the proposed method of disinfection.	
\boxtimes Chlorine: 1 mg/l after 20 minutes detention time at peak flow	
Dechlorination process:	
Ultraviolet Light: seconds contact time at perflow	ak
Other:	

Section 4. Design Calculations (Instructions Page 68)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: $\underline{0}$

000047

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain

Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?

Yes 🗵

No 🗖

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Provide the source(s) used to determine 100-year frequency flood plain.

FIRM Map #48473C0275E eff 2/18/2009

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

Yes 🗖

No ⊠

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

Yes 🗖

No ⊠

If yes, provide the permit number:

If no, provide the approximate date you anticipate submitting your application to the Corps:

B. Wind rose

Attach a wind rose. Attachment: P

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

000048

Yes 🗏 No 🗵

If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)

Attachment:

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

- Sludge Composting
- Marketing and Distribution of sludge
- Sludge Surface Disposal or Sludge Monofill

If any of the above sludge options are selected, attach a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment:

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: 0

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

section 1. Domestic Drinking water supply (instructions rage 73)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge? Yes No
If yes, provide the following: Owner of the drinking water supply:
Distance and direction to the intake:
Attach a USGS map that identifies the location of the intake.
Attachment:
Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)
Does the facility discharge into tidally affected waters?
Yes No 🛛
If yes, complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet:
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
Yes No 🗵
If yes, provide the distance and direction from outfall(s).

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

Yes 🗐

No 🛛

If yes, provide the distance and direction from the outfall(s).



Section 3. Classified Segments (Instructions Page 73)

Is the discharge directly into (or within 300 feet of) a classified segment?

Yes 🗐

No 🗵

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 75)

Name of the immediate receiving waters: Wet detention pond number 1

A. Receiving water type

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh

Surface area, in acres: 3.30

Average depth of the entire water body, in feet: 6

Average depth of water body within a 500-foot radius of discharge point, in feet: $\underline{6}$

- Man-made Channel or Ditch
- Open Bay

000051

Tidal Stream, Bayou, or Marsh	
Other, specify:	
B. Flow characteristics	
If a stream, man-made channel or ditch was checked above, provid following. For existing discharges, check one of the following that characterizes the area <i>upstream</i> of the discharge. For new discharge characterize the area <i>downstream</i> of the discharge (check one). Intermittent - dry for at least one week during most years	best ges,
Intermittent with Perennial Pools - enduring pools with su habitat to maintain significant aquatic life uses	ıfficient
Perennial - normally flowing	
Check the method used to characterize the area upstream (or down new dischargers). USGS flow records	nstream for
Historical observation by adjacent landowners	
☑ Personal observation	
Other, specify:	
C. Downstream perennial confluences	
List the names of all perennial streams that join the receiving wate three miles downstream of the discharge point.	r within
D. Downstream characteristics	
Do the receiving water characteristics change within three miles do the discharge (e.g., natural or man-made dams, ponds, reservoirs, e Yes No	wnstream of etc.)?
If yes, discuss how.	

From	the plant to Wet Detention	n Pond;	then to unnamed tributary via pipe;
then t	o man made pond 1.3 mil	es dowi	astream; then to downstream unnamed
tribut	ary; then ultimately to Bra	zos Riv	er more than 15 miles downstream.
	Normal dry weather chara		
Provide conditi		he wate	er body during normal dry weather
The p	ond has a year-round pool	depth	of approximately 6 feet. The
<u>tribut</u>	aries are normally dry.		
Date ar	nd time of observation: <u>8-1</u>	<u> 18-2022</u>	:
Was th	e water body influenced by	y storm	water runoff during observations?
	Yes No 🗵		
	Acad MacAnd		
	n 5. General Characte	ristics	of the Waterbody (Instructions
	Acad MacAnd	ristics	of the Waterbody (Instructions
	n 5. General Characte	ristics	of the Waterbody (Instructions
A. U	on 5. General Characte Page 74) Jpstream influences mmediate receiving water	upstrea	of the Waterbody (Instructions am of the discharge or proposed ollowing? Check all that apply.
A. U	on 5. General Characte Page 74) Jpstream influences mmediate receiving water	upstrea	am of the discharge or proposed
A. U Is the i dischar	on 5. General Characte Page 74) Ipstream influences mmediate receiving water rge site influenced by any o	upstrea of the f	am of the discharge or proposed ollowing? Check all that apply. Urban runoff
A. U	on 5. General Characte Page 74) Upstream influences Immediate receiving water Inge site influenced by any of Oil field activities Upstream discharges	upstrea of the f	am of the discharge or proposed ollowing? Check all that apply. Urban runoff Agricultural runoff
A. U Is the i dischar	on 5. General Characte Page 74) Upstream influences Immediate receiving water Ige site influenced by any of	upstrea of the f	am of the discharge or proposed ollowing? Check all that apply. Urban runoff
A. U	on 5. General Characte Page 74) Upstream influences Immediate receiving water Inge site influenced by any of Oil field activities Upstream discharges	upstrea of the f	am of the discharge or proposed ollowing? Check all that apply. Urban runoff Agricultural runoff
A. Us the indischar	on 5. General Characte Page 74) Upstream influences Immediate receiving water Inge site influenced by any of Oil field activities Upstream discharges	upstrea of the f	am of the discharge or proposed ollowing? Check all that apply. Urban runoff Agricultural runoff
A. U Is the it dischar	on 5. General Characte Page 74) Upstream influences Immediate receiving water Ige site influenced by any of Oil field activities Upstream discharges Septic tanks	upstrea	am of the discharge or proposed ollowing? Check all that apply. Urban runoff Agricultural runoff Other(s), specify
A. U Is the it dischar	on 5. General Characte Page 74) Upstream influences mmediate receiving water ge site influenced by any of the Oil field activities Upstream discharges Septic tanks Waterbody uses	upstrea	am of the discharge or proposed ollowing? Check all that apply. Urban runoff Agricultural runoff Other(s), specify

Signal States	Fishing	Ä	Navigation
	Domestic water supply		Industrial water supply
	Park activities	\boxtimes	Other(s), specify <u>amenity pond</u>

C. Waterbody aesthetics

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

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

ATTACHMENT A Core Data Form



TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175. **SECTION 1:** General Information

OFC LIO	MI: C	enerai iniori	mation									
1, Reason	for Subn	nission (<i>If other i</i>	s checked plea	ase des	cribe in	space pr	ovide	d.)			71.79	
							bmitte	ed with	the program appli	ication.)		
		Data Form should			e renew	al form)] Oth	er			
2. Custom	er Refere	nce Number <i>(if is</i>	sued)	7 1010		k to searc		3. Reg	julated Entity Ref	erence l	Vumber	(if issued)
CN 602	944746	5			N or RN entral Re	numbers gistry**	<u>n</u>	RN				
SECTIO	<u> </u>	ustomer Inf	<u>ormation</u>									
4. General	Custome	r Information	5. Effective	Date f	or Cust	omer Inf	orma	ition U	ipdates (mm/dd/yy	/yy)		<u> </u>
☐ New Cu						omer Info			☐ Chang	ge in Re	gulated	Entity Ownership
Change	in Legal N	lame (Verifiable wi	th the Texas S	ecretar	y of Sta	te or Tex	as Co	omptro	oller of Public Accou	unts)		
Texas Se	omer N cretary	ame submitted of State (SOS)	here may l or Texas C	be upo compti	dated i roller i	automa of Publ	tica ic A	lly ba ccoui	ised on what is nts (CPA).	s curre	nt and	l active with the
6. Custome	r Legal N	lame (If an Individua	l, print last nam	e first: e	g: Doe, J	ohn)	Sales y Le	<u>If ne</u>	w Customer, enter j	previous	Custom	er below:
Quadves	t, L.P.						.					
7. TX SOS/	CPA Filin	g Number	8. TX State	Tax ID	(11 digits)			9. F	ederal Tax ID (9 dig	its) 1	0. DUN	S Number (if applicable)
0800053			17421243	3712								· · · · · · · · · · · · · · · · · · ·
11. Type of	Custome	r: Corporati	on		☐ In	dividual			Partnership: ☐ 6	eneral ⊠	Limited	
		County 🔲 Federal 🛚	State 🔲 Other		☐ Sc	le Propri	etors	hip	Other:			
12. Number ☐ 0-20	of Emplo	byees 101-250	<u> </u>		501 and	higher		13. I	ndependently Ow /es	med and No	l Opera	ted?
14. Custom	er Role (F	Proposed or Actual) -	as it relates to i	he Regu	ılated Er	tity listed	on thi	s form.	Please check one of	f the follo	wing:	
Owner		☐ Operat				er & Ope					<u> </u>	
☐ Occupation	onal Licen	see 🔲 Respo	nsible Party		☐ Volu	ntary Cle	anup	Appli	cant	er:		
	26926 FM 2978											
15. Mailing Address:												
	City	Magnolia		Sta	te 7	X	ZIF	P 7	7354	ZIP	+ 4	
16. Country	Mailing Ir	nformation (if outsid	e USA)			17.	E-Ma	il Add	Iress (if applicable)			
18. Telephor	e Numbe	r	,	19. Exte	ension	or Code			20. Fax Nun	nber (if a	applicab	le)
(281)35	6-5347								()	-		
ECTION	Ш: Re	egulated Ent	ity Inforn	natio	n			•••••	,			
21. General R	egulated	Entity Informatio	n (If 'New Reg	ulated L	= Entity" is	selecte	d belo	ow this	form should be ac	ccompan	ied by a	permit application)
New Regu	lated Entit	ty 🔲 Update to	Regulated En	tity Nar	ne [] Updat	e to F	Regula	ted Entity Informat	tion		
The Regula of organiza	ted Enti tional e	ity Name subm ndings such as	itted may b s Inc, LP, oi	e upa LLC.	lated)	in orde			t TCEQ Agency	y Data	Stand	ards (removal
		ame (Enter name of				on is takin	g plac	ce.)	·		· · · · ·	000056
Γrails at Co	ochran I	Ranch Wastew	ater Treatr	nent I	Plant							

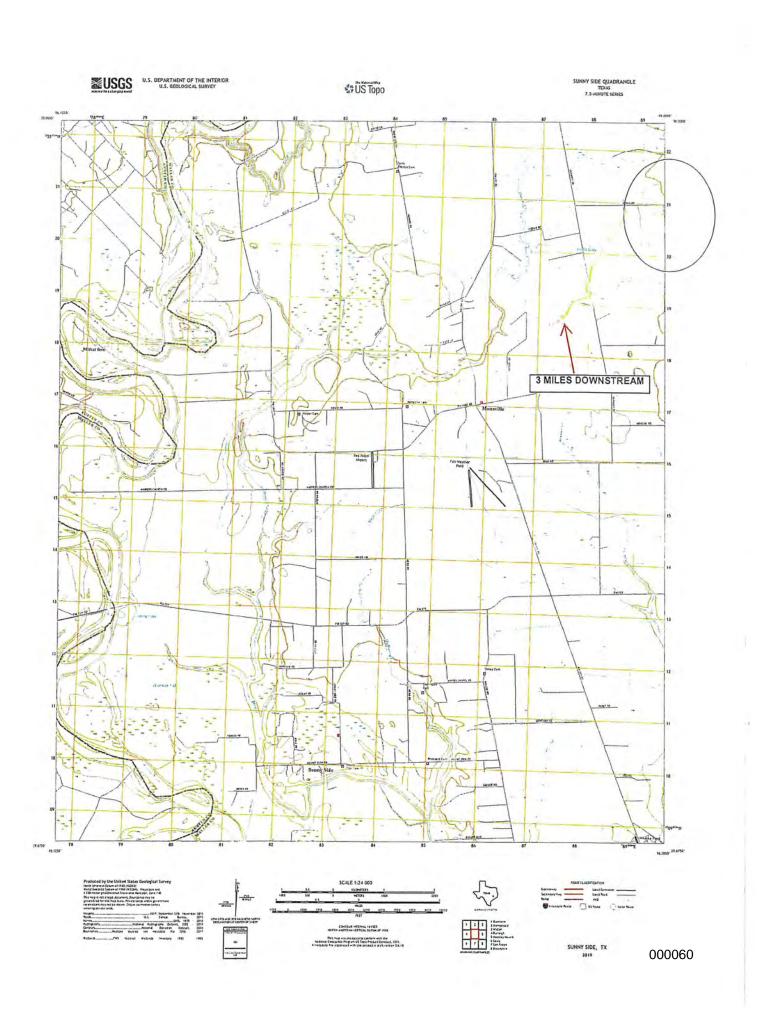
23. Street Address of the Regulated Entity:										
(No PO Boxes)	City		State		ZIF				ZIP+4	
24. County										
<u> </u>	Enter Ph	ysical L	ocation Descrip	tion if no	street add	ress is p	provided.	· · ·		
25. Description to Physical Location:	Approximate 6.5 miles sou	ly 2.8	miles south	of the in				Road	and Betke	a Road and
26. Nearest City						S	State .		Nea	rest ZIP Code
Waller						Т	X		diesé 40	Secretaria de descripción de la constitución de la
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33. What is the Primary E	Business of this en	tity?	Do not repeat the SIC	C or NAICS	description.)					
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					Quadvest,	LP				
34. Mailing				2	26926 FM 1	978	,			
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35. E-Mail Address:			<u> </u>		1 1	·····			<u> </u>	<u> </u>
	ne Number		37. Exten	sion or C	ode	Agree.	38. Fax	Numbe	er (if applica	hle)
(281)3	56-5347							()		
39. TCEQ Programs and ID I orm. See the Core Data Form ins	Numbers Check all F structions for additiona	Programs al guidanc	and write in the pe	ermits/regis	tration numb	ers that w	ill be affecte	ed by the	e updates subi	mitted on this
☐ Dam Safety	Districts		☐ Edwards Aqu	ılfer	☐ Emis	sions inv	entory Air		Industrial Haz	zardous Waste
Municipal Solid Waste	☐ New Source Revi	ew Air	OSSF		☐ Petro	oleum Sto	rage Tank		PWS	
	[-] O						**************************************			
Sludge	Storm Water		☐ Title V Air		☐ Tires				Used Oil	
☐ Voluntary Cleanup	Waste Water ■		□ Wastowator A	☐ Wastewater Agriculture ☐ Water Rights ☐ C			7.04			
L1 voluntary Oleanup	≥ vvaste vvater		□ wastewater A	Agriculture		r Rights		ᆛᆛ	Other:	
CECCHONIUS D	т.с									
SECTION IV: Preparent	arer Intorma	tion								
40. Name: Mark Urba	ck, P.E.	, 3:1			41. Title:	Exe	cutive N	/Ianag	ger of Eng	ineering
42. Telephone Number	43. Ext./Code	44	. Fax Number		45. E-Mai	Addres	s			
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(281) 356-5347	10, 2,, 9, 0, 0	() -	İ	murbac	k@qua	idvest.c	om		
· · · · · · · · · · · · · · · · · · ·		(ure) -		murbac	k@qua	idvest.c	om		
(281) 356-5347 SECTION V: Author 6. By my signature below, I construct authority to submit the lentified in field 39.	orized Signat	my kno	wledge, that the	informatio	on provided	l in this f	orm is true	e and co	omplete, and ites to the ID	that I have numbers
SECTION V: Autho 6. By my signature below, I compared gnature authority to submit the lentified in field 39.	orized Signat certify, to the best of is form on behalf of	my kno) - wledge, that the ty specified in Se	ection II, I	on provided Field 6 and/	l in this f or as req	orm is true	e and co	ites to the ID	numbers
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ATTACHMENT B

USGS TOPOGRAPHIC MAP

Original Full-size

(Admin Report 1.0-section 13)



ATTACHMENT C SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
County: Segment Number:
Admin Complete Date:
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This form applies to TPDES permit applications only. (Instructions, Page 53)
The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completel addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.
Do not refer to a response of any item in the permit application form . Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed it entirety including all attachments.
The following applies to all applications:
1. Permittee:
Permit No. WQ00 EPA ID No. TX
Address of the project (or a location description that includes street/highway, city/vicinity, and county):
Approximately 2.8 miles south of the intersection of Cochran Road and Betka Road 6.5 miles southwest of Waller, Texas.

	Provio answe	le the name, address, phone and fax number of an individual that can be er specific questions about the property.	contacted to
	Prefix	(Mr., Ms., Miss): <u>Mr.</u>	
	First a	nd Last Name: <u>Mark Urback</u>	
	Crede	ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>	
	Title:	Executive Manager of Engineering and Construction	
	Mailin	g Address: <u>26926 FM 2978</u>	
	City, S	state, Zip Code: <u>Magnolia, TX 77354</u>	
	Phone	No.: <u>281-356-5347</u> Ext.: Fax No.:	
	E-mail	Address: <u>murback@quadvest.com</u>	
2.	List th	e county in which the facility is located: <u>Waller</u>	÷
3.		property is publicly owned and the owner is different than the permittee, a list the owner of the property.	/applicant,
	620000000000000000000000000000000000000		
4.	Provid	le a description of the effluent discharge route. The discharge route must f	ollow the floor
4.	of effli	ient from the point of discharge to the nearest major watercourse (from th	e point of
	discha	rge to a classified segment as defined in 30 TAC Chapter 307). If known, p	please identify
		ssified segment number.	1
	to Ha	the facility via effluent pipe thence to detention pond to an unnamed tri rris Creek then to Brazos River.	butary, then
5.		provide a separate 7.5-minute USGS quadrangle map with the project bo I and a general location map showing the project area. Please highlight the	
	route i	from the point of discharge for a distance of one mile downstream. (This	ne discharge map is
	requir	ed in addition to the map in the administrative report).	•
	Provid	e original photographs of any structures 50 years or older on the proper	ty.
	Does y	our project involve any of the following? Check all that apply.	
		Proposed access roads, utility lines, construction easements	
	76°24 	Visual effects that could damage or detract from a historic property's in	ategrity
		Vibration effects during construction or as a result of project design	
		Additional phases of development that are planned for the future	
		Sealing caves, fractures, sinkholes, other karst features	000063
TCE	Q-10053	(06/25/2018) Municipal Wastewater Application Administrative Report	Page 17 of 21

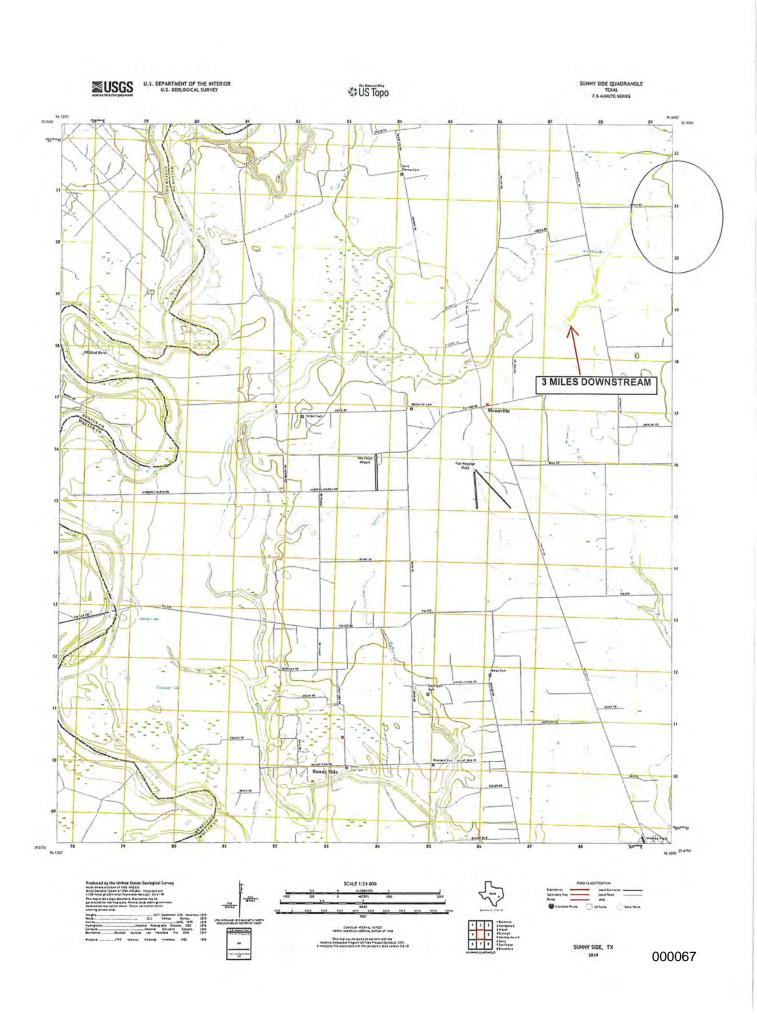
	Disturbance of vegetation or wetlands
6.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	<u>None</u>
7.	Describe existing disturbances, vegetation, and land use:
	<u>None</u>
TH AM	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
8.	List construction dates of all buildings and structures on the property:
	<u>None</u>
9.	Provide a brief history of the property, and name of the architect/builder, if known.
	Not Known

ATTACHMENT D

USGS TOPOGRAPHIC MAP(7.5 minute)

EFFLUENT DISCHARGE ROUTE

(SPIF #5)



ATTACHMENT E APPLICATION CHECK

Quadvest LP 26926 FM 2978 Magnolia TX 77354

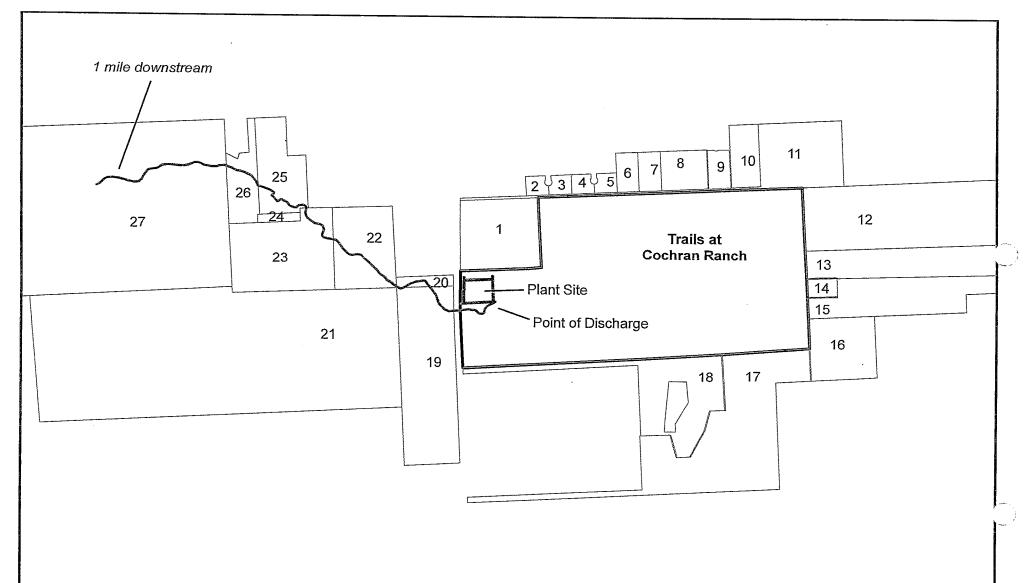
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ATTACHMENT F

AFFECTED LANDOWNERS MAP, List of Addresses, & Labels

(Admin Report 1.1 – Section 1)

Property Number on Map	Landowners	Street	City	State	Zip
1	Weinstein David B & Candace P	145 Knipp Rd	Houston	ΤX	77024
2	Robinson Scott Edward	14501 Bridle Lane	Waller	TX	77484
3	Martinez Elisa Y & Noe	14508 Bridle Lane	Waller	TX	77484
4	Martinez Elisa Y & Noe	14508 Bridle Lane	Waller	TX	77484
5	Iniesta Juan & Mary E	34461 Rodeo Rd	Waller	TX	77484
6	Iniesta Juan & Mary E	34461 Rodeo Rd	Waller	TX	77484
7	Iniesta Juan & Mary E	34461 Rodeo Rd	Waller	TX	77484
8	Cotton Antoinette Vita	3238 Golden Eye	Katy	TX	77493
9	Campbell Ronald Wayne	34301 Rodeo Rd	Waller	TX	77484
10	Sheppard Cheryl Calloway	14518 Cochran Rd	Waller	TX	77484
11	Stowe Donald & Tiffany	21802 Stokes Rd	Waller	TX	77484
12	Ortega-Mondragon Napolean	6211 Catron Crossing	Katy	TX	77493
13	Hernandez-Marchan Damian	19601 FM 362	Waller	TX	77484
14	Frey Cemetery Association Trustees	34669 Richard Frey	Waller	TX	77484
15	Hernandez-Marchan Damian	19601 FM 362	Waller	TX	77484
16	Rheman Betty B	14535 Blinka Rd	Waller	TX	77484
17	Jackson Thomas & Marissa	13950 Cochran Rd	Waller	TX	77484
18	14182 Cochran Road LLC	14182 Cochran Rd	Waller	TX	77484
19	Burton James H Jr	9934 Deanwood	Houston	TX	77040
20	Burton James H Jr	9934 Deanwood	Houston	TX	77040
21	Trog Ranch LLC	8702 Holly Hills Dr	Tomball	TX	77377
22	Burton James H Jr	9934 Deanwood	Houston	TX	77040
23	Beck Michael	8107 Sedona Ridge Dr	Cypress	TX	77433
24	Hall Joe & Dyann	1422 22nd Street	Hempstead	TX	77445
25	Hail's Trees & Service Inc.	1422 22nd Street	Hempstead	TX	77445
26	Curtis Michael	PO Box 775	Hempstead	TX	77445
27	Collins George F II & Kassie	35665 Repka Rd	Waller	TX	77484



Adjacent and Downstream Landowners

Quadvest, L.P.
Trails at Cochran Ranch in Waller County

000072 500 1,000 Feet

Map by: S. Burt, ASBGI Date: July 27, 2022 Base: Waller CAD Parcels, NHD Flowline Project: Adjacent and Downstream Landowners 8160"

Weinstein David B & Candace P 145 Knipp Rd Houston, TX 77024

Martinez Elisa Y & Noe 14508 Bridle Lane Waller, TX 77484

Iniesta Juan & Mary E 34461 Rodeo Rd Waller, TX 77484

Sheppard Cheryl Calloway 14518 Cochran Rd Waller, TX 77484

Hernandez-Marchan Damian 19601 FM 362 Waller, TX 77484

Rheman Betty B 14535 Blinka Rd Waller, TX 77484

Burton James H Jr 9934 Deanwood Houston, TX 77040

Burton James H Jr 9934 Deanwood Houston, TX 77040

Hall's Trees & Service Inc. 1422 22nd Street Hempstead, TX 77445

Easy Peel® Address Labels Bend along line to expose Pop-up Edge

Robinson Scott Edward 14501 Bridle Lane Waller, TX 77484

Iniesta Juan & Mary E 34461 Rodeo Rd Waller, TX 77484

Cotton Antoinette Vita 3238 Golden Eye Katy, TX 77493

Stowe Donald & Tiffany 21802 Stokes Rd Waller, TX 77484

Frey Cemetery Association Trustees 34669 Richard Frey Waller, TX 77484

Jackson Thomas & Marissa 13950 Cochran Rd Waller, TX 77484

Burton James H Jr 9934 Deanwood Houston, TX 77040

Beck Michael 8107 Sedona Ridge Dr Cypress, TX 77433

Curtis Michael PO Box 775 Hempstead, TX 77445

Étiquettes d'adresse Easy Peel®

Repliez à la hachure afin de révéler le rebord Pop-up

Go to avery.com/templates Use Avery Template 5160

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Iniesta Juan & Mary E 34461 Rodeo Rd Waller, TX 77484

Campbell Ronald Wayne 34301 Rodeo Rd Waller, TX 77484

Ortega-Mondragon Napolean 6211 Catron Crossing Katy, TX 77493

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14182 Cochran Road LLC 14182 Cochran Rd Waller, TX 77484

Trog Ranch LLC 8702 Holly Hills Dr Tomball, TX 77377

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AVERY

8160"

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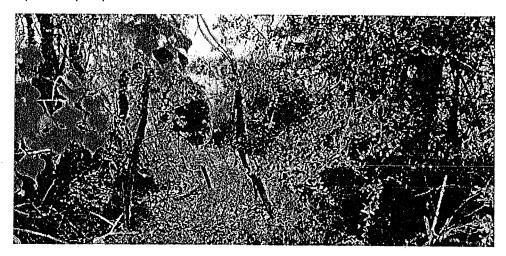
ATTACHMENT G

ORIGINAL PHOTOGRAPHS

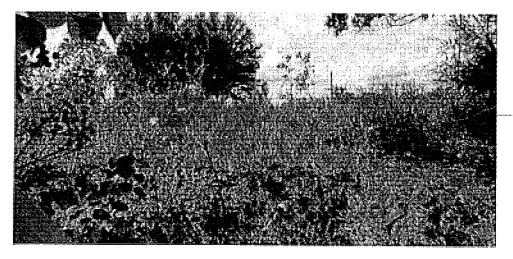
(Admin Report 1.1 – Section 2)



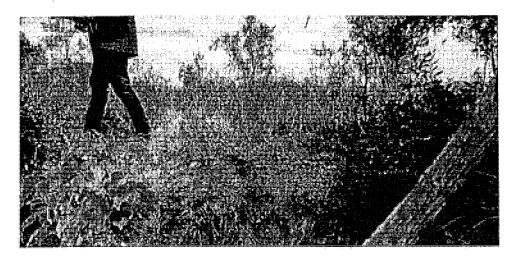
Upstream (East)



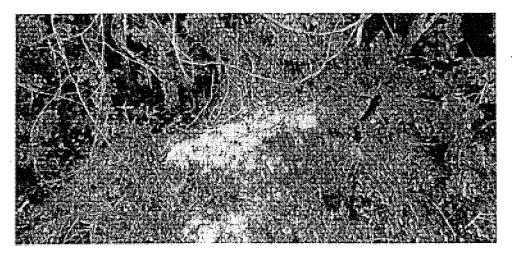
Downstream (West)



Outfall – South



Outfall - North

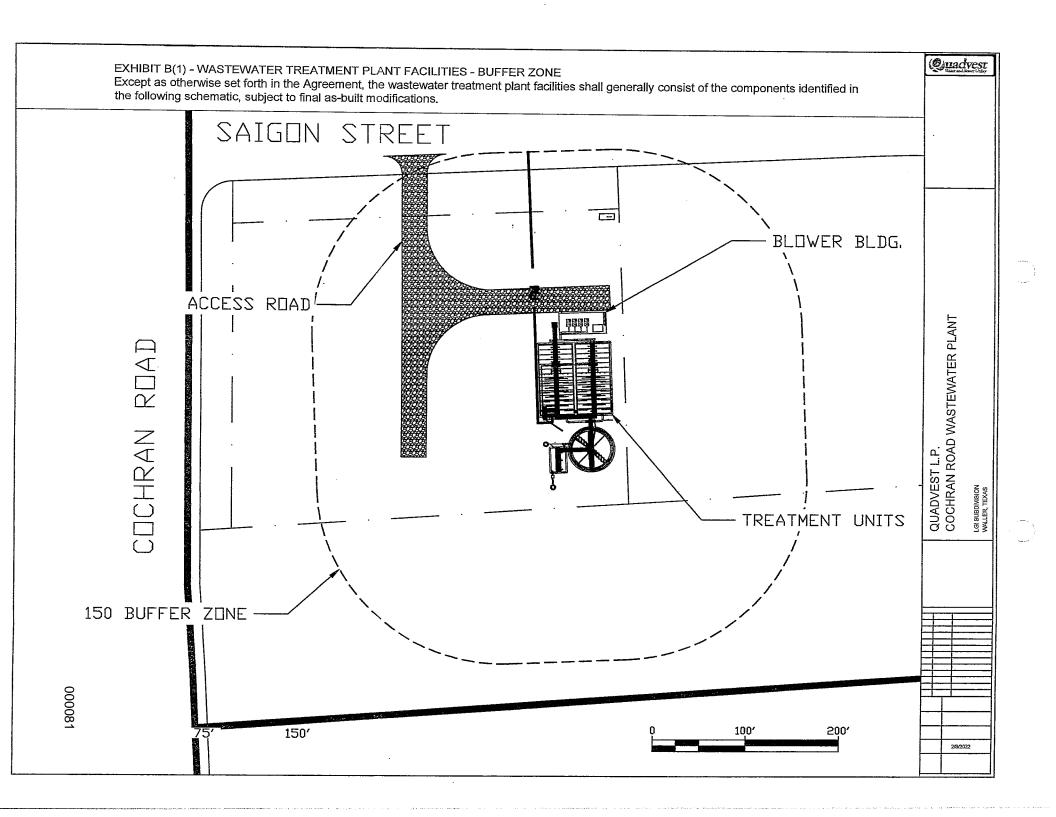


Stream Bed - Dry

ATTACHMENT H

BUFFER ZONE MAP

(Admin Report 1.1 – Section 3)



ATTACHMENT I

TREATMENT PROCESS

(Technical Report 1.0 : Section 2A)

TECHNICAL DESIGN REPORT

FOR

Trails at Cochran Ranch WWTP

- 1. <u>PURPOSE</u> The purpose of this report is to present the basis of design and summary of unit sizing and hydraulic calculations for the Sewage Treatment Plant.
- 2. <u>DESCRIPTION OF PROPERTY</u> The project under development is a residential community
- 3. <u>POPULATION SERVED</u> The location of the proposed facility is shown on Sheet One of the Plans. The population flow is based on 71 gallons per capita per day (250 gpd/ESFC).

	ESFC	Q, MGD
Phase I	250	0.063
Phase II	500	0.125
Phase III	600	0.150

4. <u>INFLUENT QUALITY CHARACTERISTICS</u> The raw sewage quality characteristics used for design are estimates based on past experience and on State Design Criteria and are as follows:

PARAMETER	CONCENTRATION - MG/L	PER CAPITA CONTRIBUTION - LB/DAY
BOD ₅	300	0.1668
TSS	360	0.2000

INFLUENT FLOW CHARACTERISTICS The hydraulic design of the plant must be conservative to insure that the plant will operate under the most extreme conditions anticipated. Future enlargement to the plant will be based on actual influent flow data. The plant process

	First Ph	nase
Average Daily Flow (Qav)	62,500 GPD	43 GPM
Peak 2-Hr. Flow (Qpk) 4	250,000 GPD	174 GPM
	Second F	Phase
Average Daily Flow (Qav)	125,000 GPD	87 GPM
Peak 2-Hr. Flow (Qpk) 4	500,000 GPD	347 GPM
	Third Pl	nase
Average Daily Flow (Qav)	250,000 GPD	174 GPM
Peak 2-Hr. Flow (Qpk) 4	1,000,000 GPD	694 GPM

Refer to Attachment "A" - Process Design Calculations, Hydraulic Profile Calculations, Process Flow Diagrams, and Plant Discharge relationship for the 100 year flood.

6. <u>PROCESS DESIGN</u> The Sewage Treatment Plant has been designed to produce an effluent in compliance with permitted perameters of: BOD5 = 10 mg/l, TSS = 15 mg/l, and Chlorine Residual = 1mg/l after 20 minutes contact.

Compressed air will be supplied to the process units by multiple blowers.

7. PROCESS DESIGN DESCRIPTION

INTERIM I -The facility will employ the conventional plug flow variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse barscreen then to the aeration basin; from the aeration basin the mix-liquor will be transferred to the clarifier where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the headworks.

INTERIM II - The facility will employ the conventional plug flow variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse barscreen then to the aeration basin; from the aeration basin the mix-liquor will be transferred to the clarifier where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the headworks.

FINAL - The facility will employ the conventional plug flow variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse barscreen then to the aeration basins; from the aeration basins the mix-liquor will be transferred to the clarifiers where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the headworks.

8.
<u>FLOOD HAZARD ANALYSIS</u> The plant site is located wholly in Zone X area of minimal flood hazard. The nearest 100 year flood elevation is not published at this time as it is an unstudied Zone A floodplain.

9. SLUDGE DISPOSAL

Digester..... Aerobic

Transportation..... Contract Hauler

Final Dispositior To be Determined by Contract Hauler

Facility Dimensions & Facility Features TCEQ Permit No WQ00

The facility will employ the conventional plug flow variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse barscreen then to the aeration basin; from the aeration basin the mixed liquor will be transferred to the clarifier where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the headworks.

Phase I - 0.0625 MGD

<u>Unit</u> Clarifier	<u>Length</u>	<u>Width</u> 36'	Height 12'
Chlorine Contact	20'	12'	10'
Aeration 1@	34'	12'	12'
Digester 1@	26'	12'	12'

Phase II - 0.125 MGD

Length 20' 34' 26'	Width 36' 12' 12'	Height 12' 12' 12'
26'	12'	12'
	20'	36' 20' 12' 34' 12'

Phase III - 0.0250 MGD

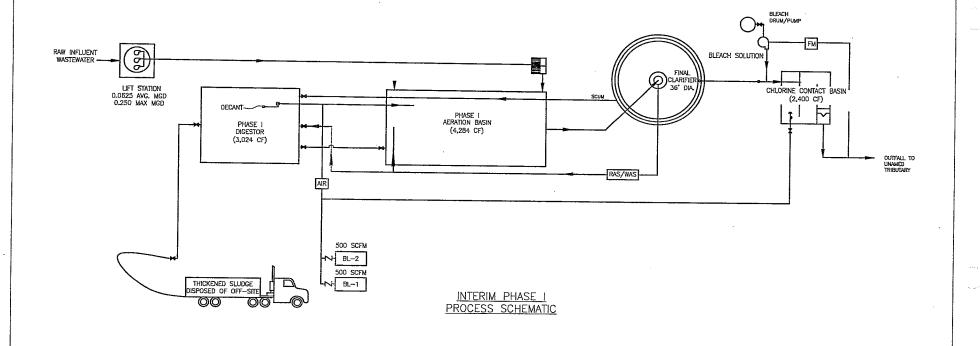
Unit 1@ Clarifier Chlorine Contact Aeration 4@	<u>Length</u> 20' 34'	<u>Width</u> 36' 12' 12'	<u>Height</u> 12' 12' 12'
Digester 4@	26'	12'	12' 12'

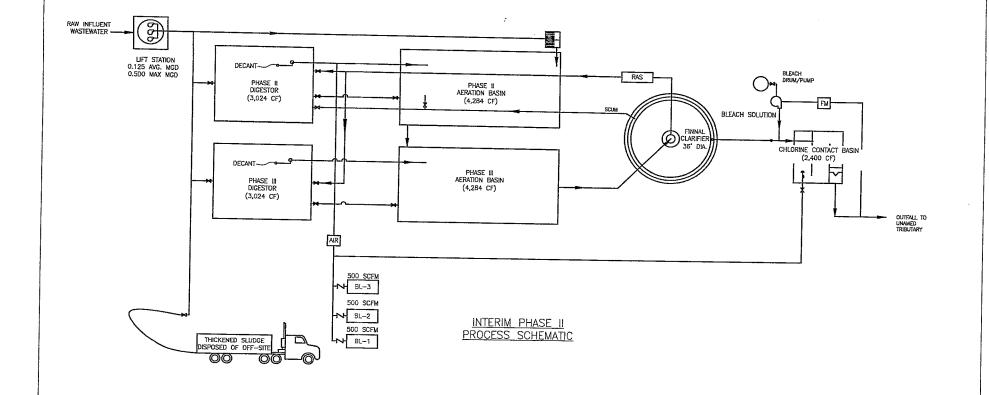
- For short power outages the sewage will be contained in the collection system. Influent is from a triplex lift station which will not function during a general power outage. The plant features digesters, chlorinator, and stand-by blowers. The collection system will be new, and minimum infiltration is anticipated. The plant is to be maintained and operated by personnel licensed by the State of Texas.
- The plant is designed to be maintained without bypassing. Replacement or repair of the interior coating system is the only maintenance item that would necessitate bypassing and the epoxy system should last 15-20 years.
- An intruder resistant fence will be placed around the facility.

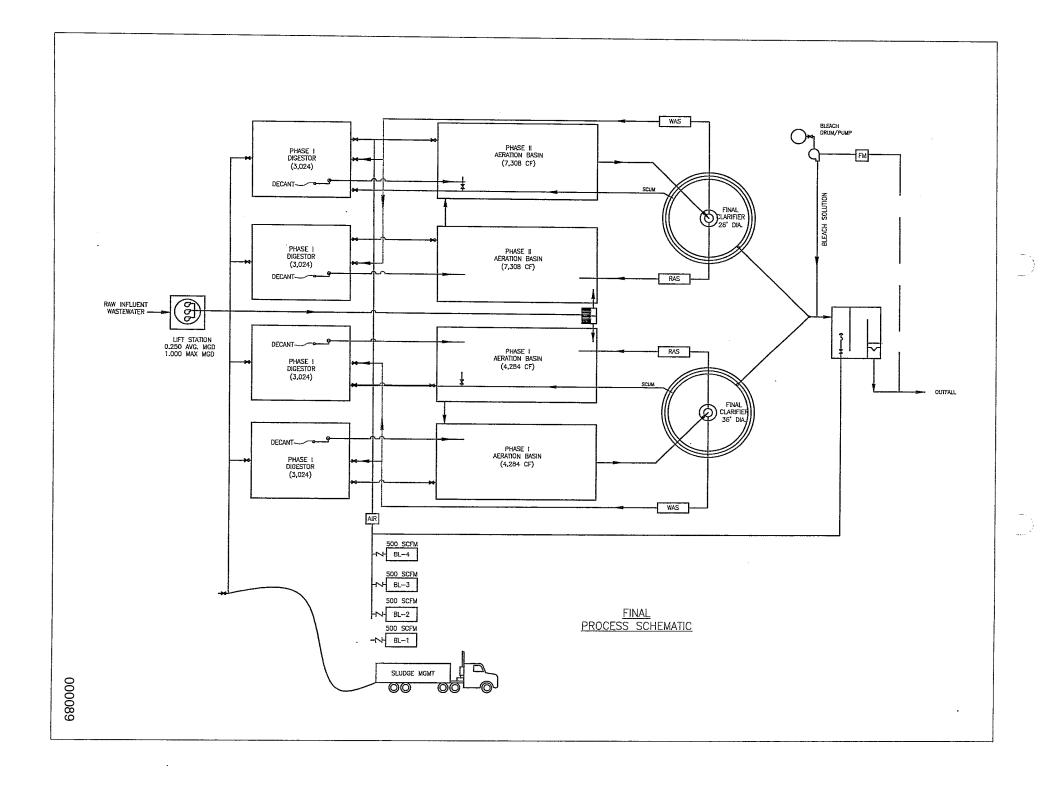
ATTACHMENT K

FLOW DIAGRAMS

(Technical Report 1.0 : Section 2C)



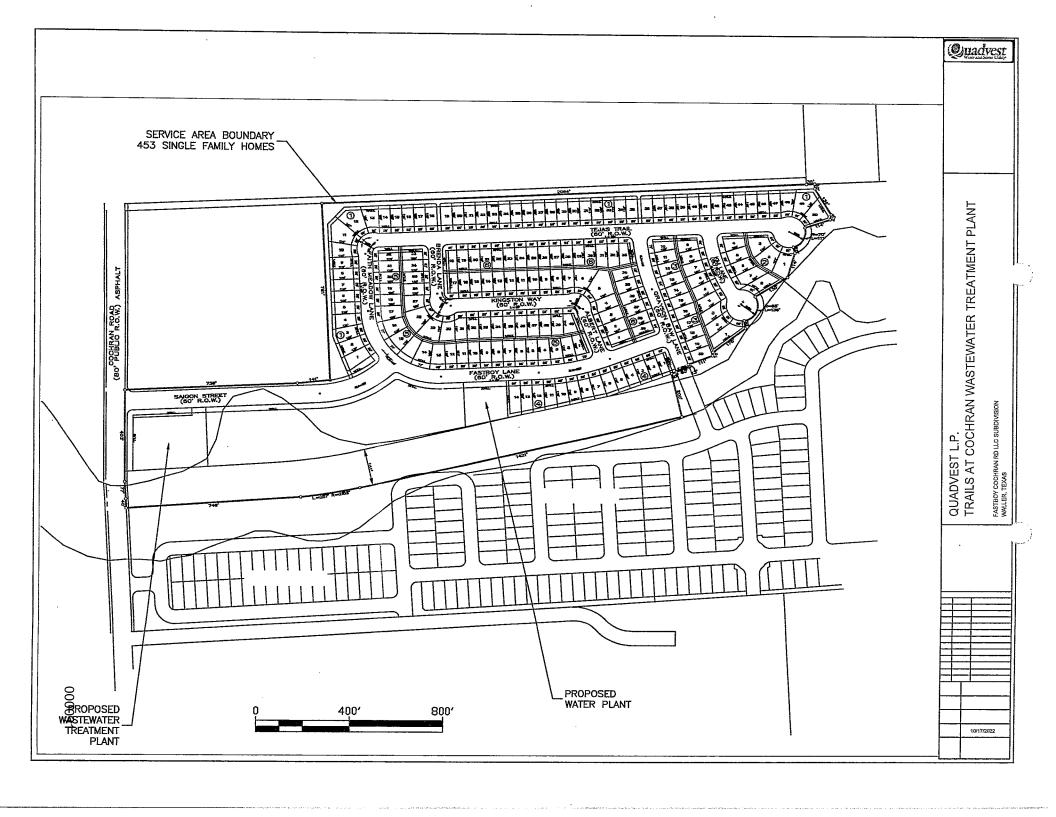




ATTACHMENT L

SITE DRAWING

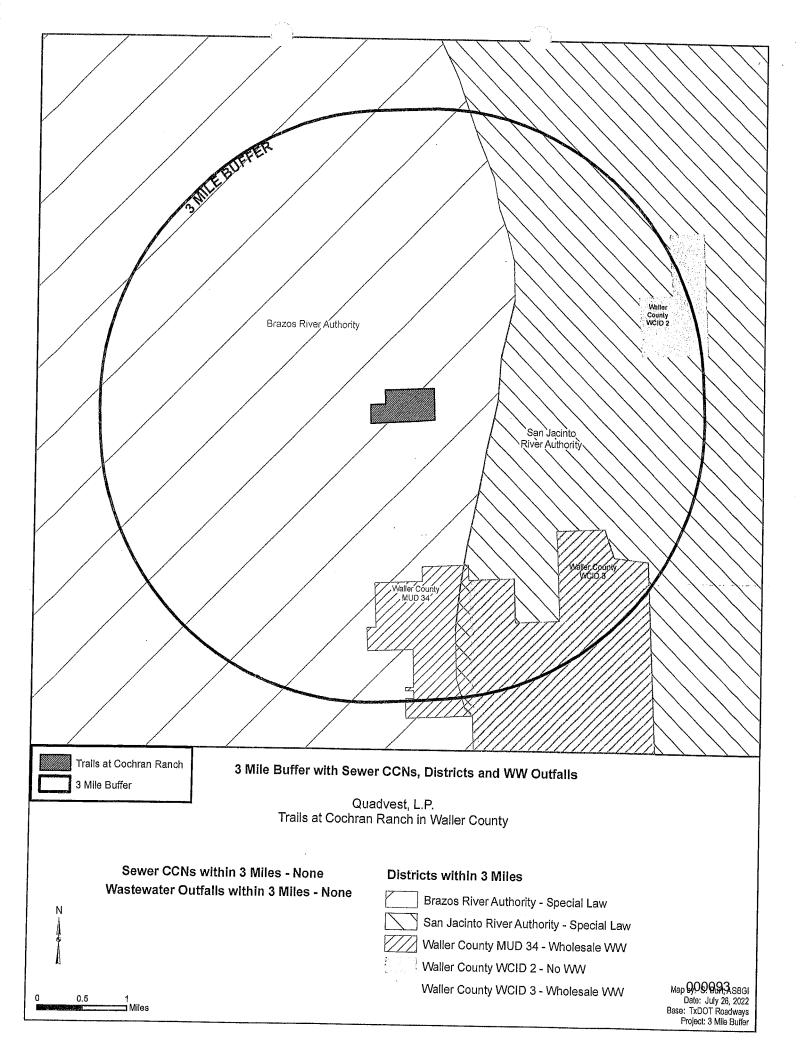
(Technical Report 1.0 : Section 3)



ATTACHMENT M

NEARBY WWTP MAP

(Technical Report 1.1: Section 1.B.3)



ATTACHMENT N

COPY OF LETTER

(Technical Report 1.1 : Section 1.B.3)



Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

FCM Corporation 3050 Post Oak Blvd Ste 600 Houston, TX 77056

Re Service Availability Request

To Whom It May Concern:

Quadvest, L.P. is in the process of preparing a design submittal package to obtain approval from the TCEQ to construct a public water system and a wastewater treatment plant to serve developments located in the approximately 6.8 miles southeast of downtown Pine Island, Texas in Waller County, shown on enclosed map.

You have been identified as a neighboring utility of like kind and/or municipality with an extraterritorial jurisdiction (ETJ) within 3 miles of the proposed service area. Pursuant to TCEQ regulations, Quadvest, L.P formally asks whether you are willing or able to provide water and wastewater service to this proposed property sufficient to meet the TCEQ's minimum service standards plus local demands thereby providing continuous and adequate utility service to the consuming public. Please fill out the questionnaire below and return to us.

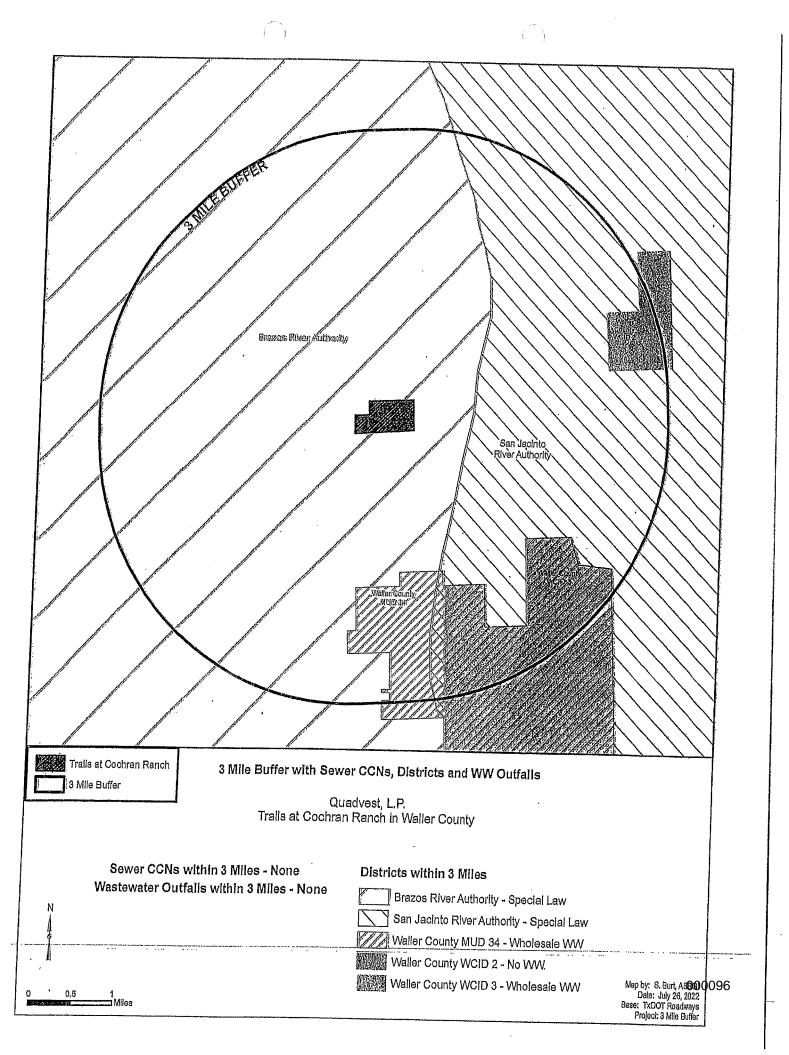
You may fax or email your response to 281-356-5382 or atrader@quadvest.com. If you have any questions please call me at 281-305-1153. Thank you for your assistance.

April H. Trader
Engineering & Construction

Coordinator

Sincerely

Date of Reply:
Name of Utility
Ability to Provide Service?
(Yes/No)
Printed Name
Organization
Email/Telephone





Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

Brazos River Authority PO Box 7555 Waco, TX 76714

Re Service Availability Request

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April H. Trader

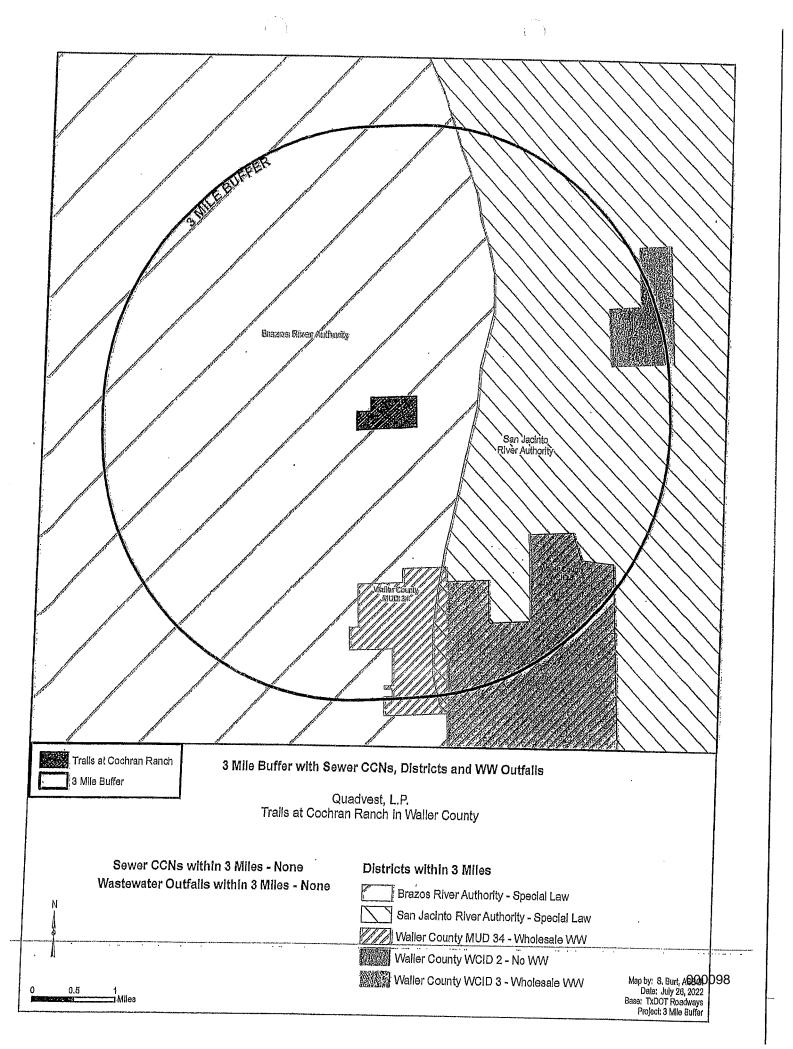
Engineering & Construction

Coordinator

Data of Dataly

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Name of Utility	
Ability to Provide Service?	
(Yes/No)	
Printed Name	
Organization	
Email/Telephone	





Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

San Jacinto River Authority PO Box 329 Conroe, TX 77305

Re Service Availability Request

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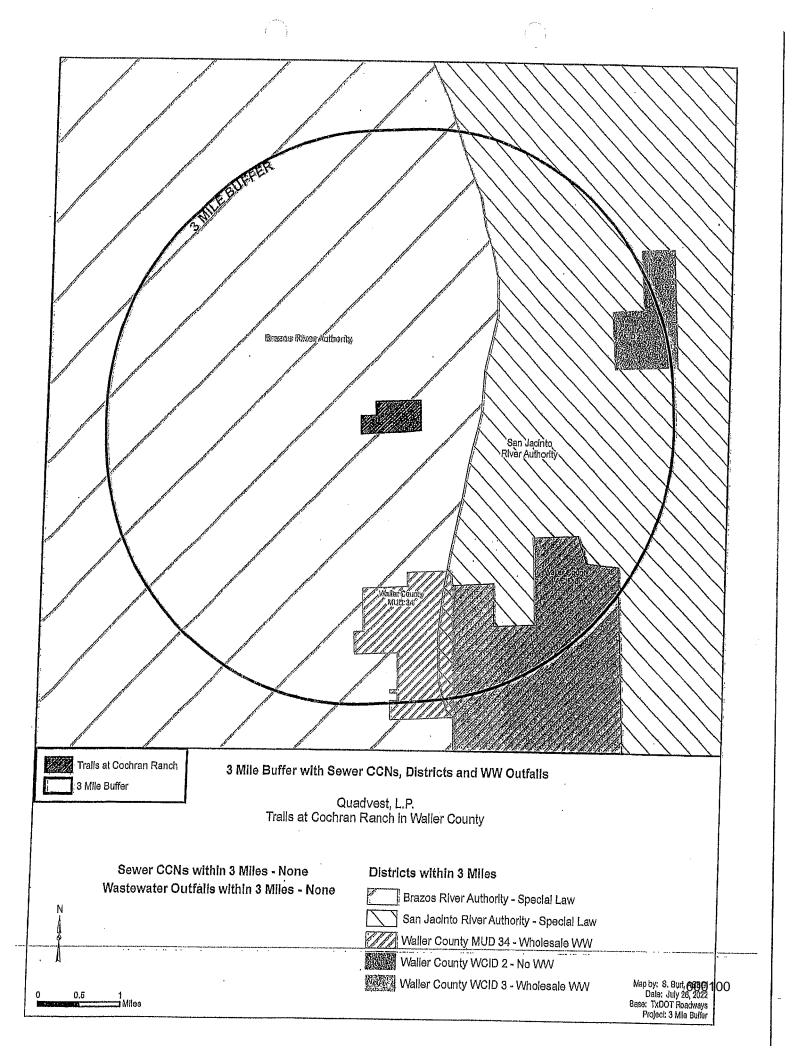
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Main: 281-356-5347 Fax: 281-356-5382

Quadvest.com

October 4, 2022

Waller County MUD 34A Swartz Page & Harding 1300 Post Oak Blvd Ste 2400 Houston, TX 77056

Re Service Availability Request

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Engineering & Construction

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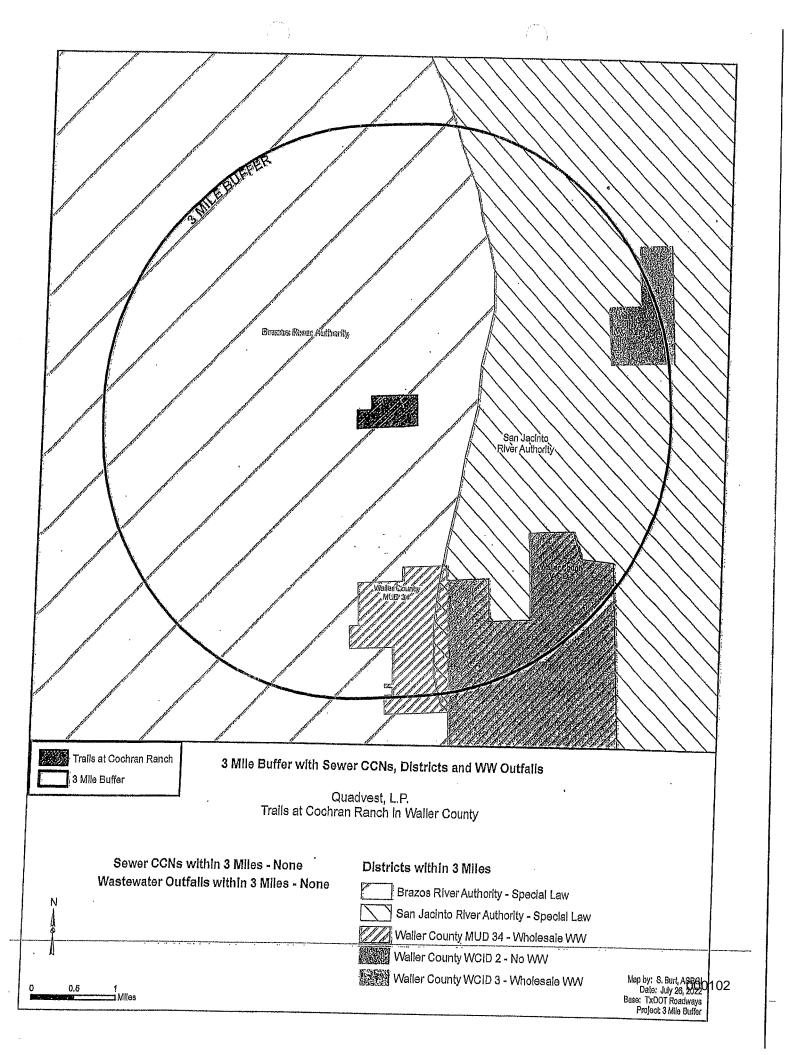
Name of Utility

Ability to Provide Service?

(Yes/No)

Printed Name

Organization





Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

Bluebonnet GCD 303 E Washington Ave Ste D Navasota, TX 77868

Re Service Availability Request

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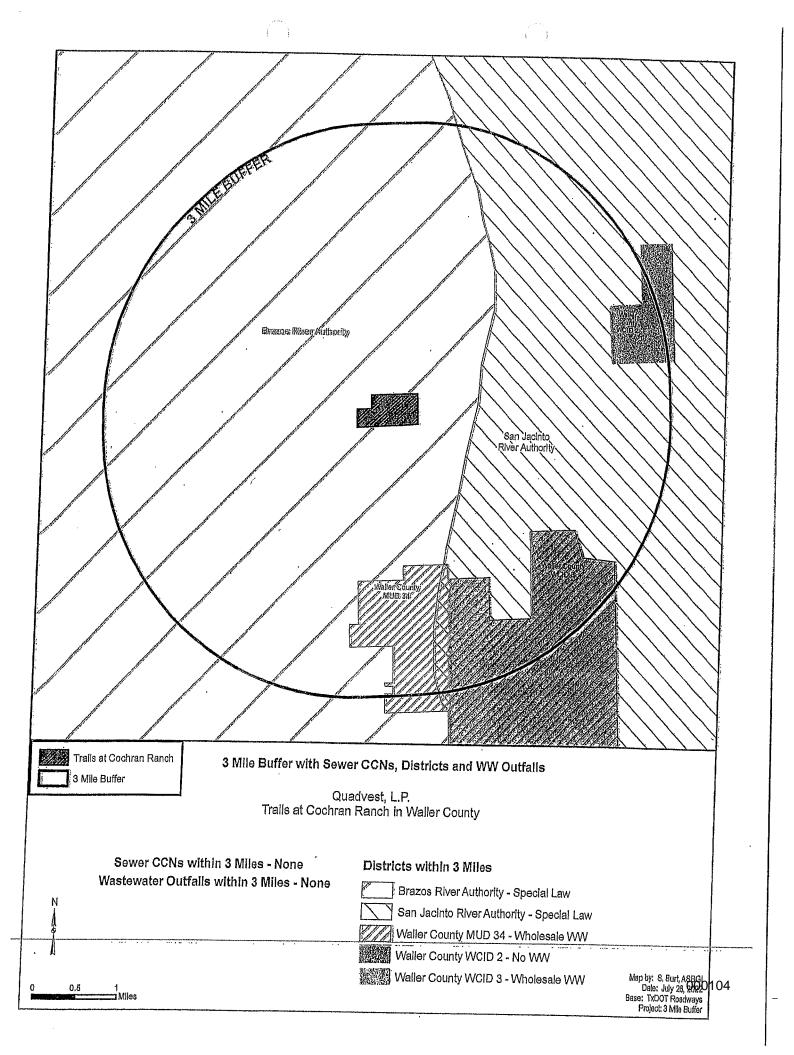
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October 4, 2022

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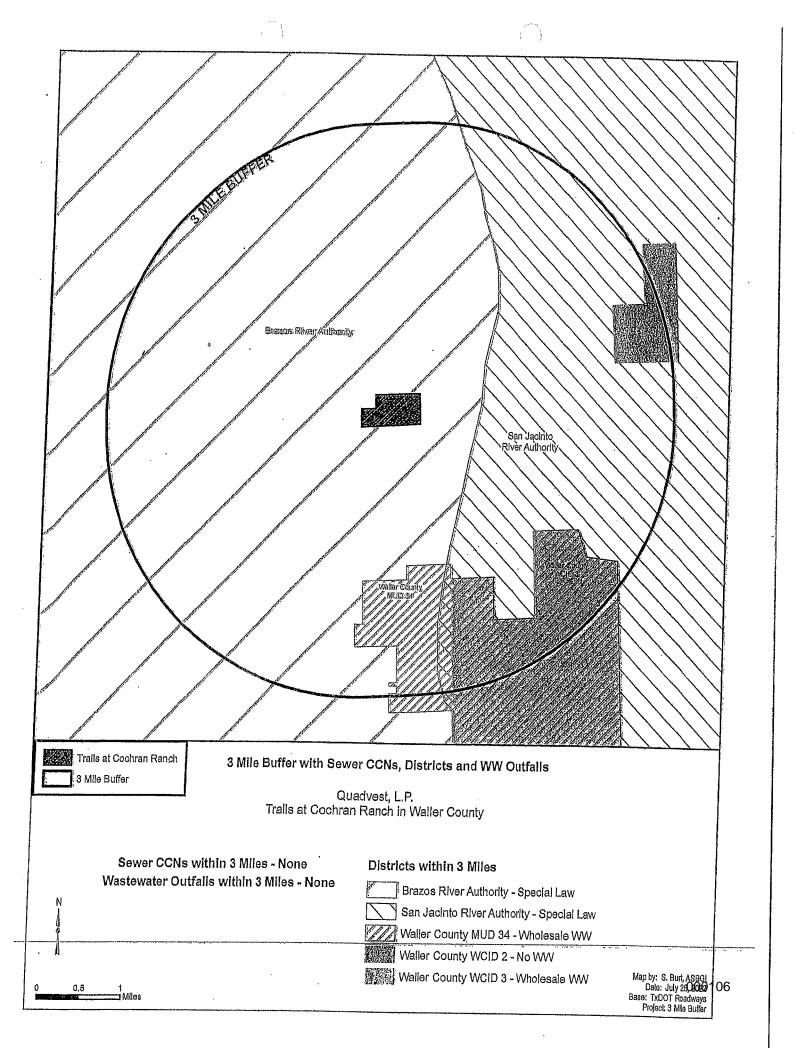
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Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

San Jacinto River Authority PO Box 329 Conroe, TX 77305

Re Service Availability Request

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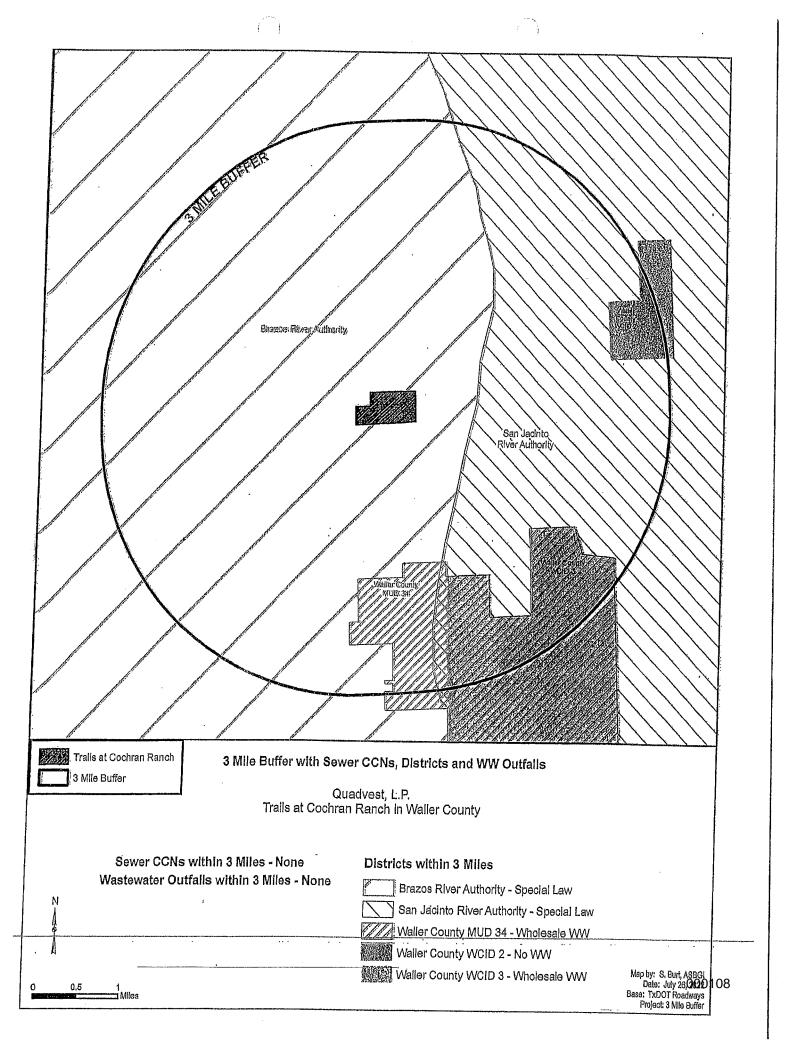
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Quadvest, L.P. 26926 FM 2978 Magnolia, TX 77354 Main: 281-356-5347 Fax: 281-356-5382 Quadvest.com

October 4, 2022

Waller County MUD 34A Swartz Page & Harding 1300 Post Oak Blvd Ste 2400 Houston, TX 77056

Re Service Availability Request

To Whom It May Concern:

Quadvest, L.P. is in the process of preparing a design submittal package to obtain approval from the TCEQ to construct a public water system and a wastewater treatment plant to serve developments located in the approximately 6.8 miles southeast of downtown Pine Island, Texas in Waller County, shown on enclosed map.

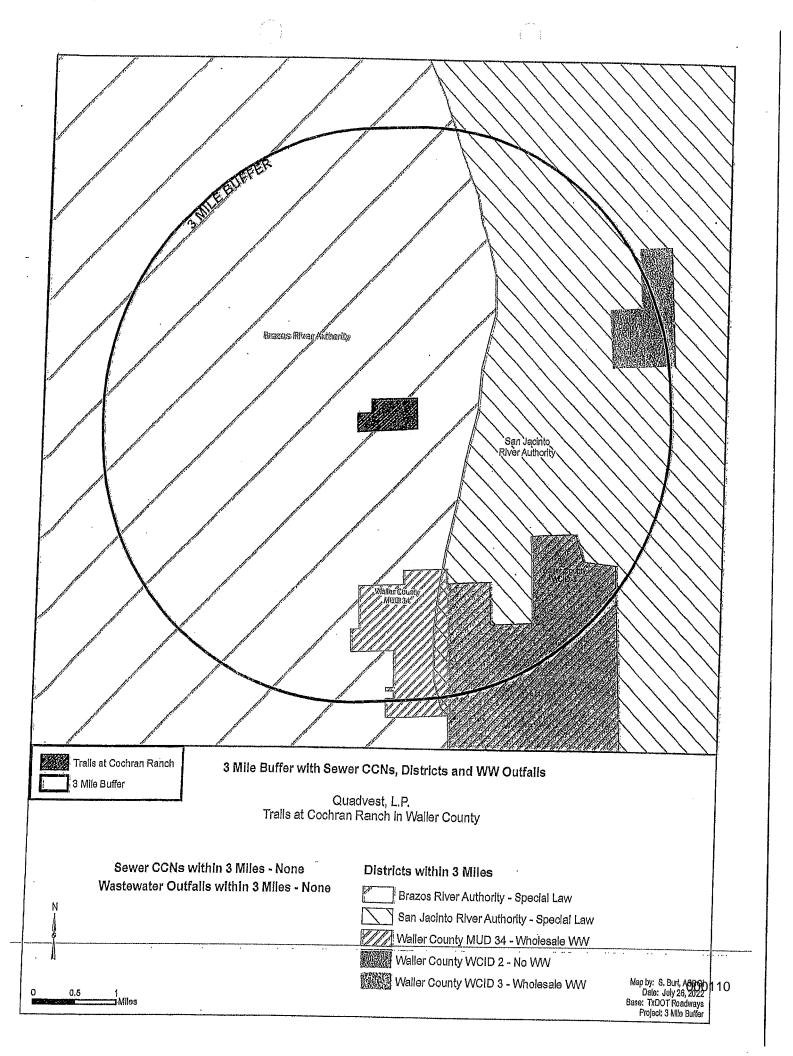
You have been identified as a neighboring utility of like kind and/or municipality with an extraterritorial jurisdiction (ETJ) within 3 miles of the proposed service area. Pursuant to TCEQ regulations, Quadvest, L.P formally asks whether you are willing or able to provide water and wastewater service to this proposed property sufficient to meet the TCEQ's minimum service standards plus local demands thereby providing continuous and adequate utility service to the consuming public. Please fill out the questionnaire below and return to us.

You may fax or email your response to 281-356-5382 or <u>atrader@quadvest.com</u>. If you have any questions please call me at 281-305-1153. Thank you for your assistance.

April H. Trader
Engineering & Construction
Coordinator

Date of Reply:
Name of Utility
Ability to Provide Service?
(Yes/No)
Printed Name
Organization

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October 4, 2022

Waller County WCID 2 Smith Murdaugh Little & Bonham LLP 1100 Louisiana St Ste 400 Houston, TX 77002

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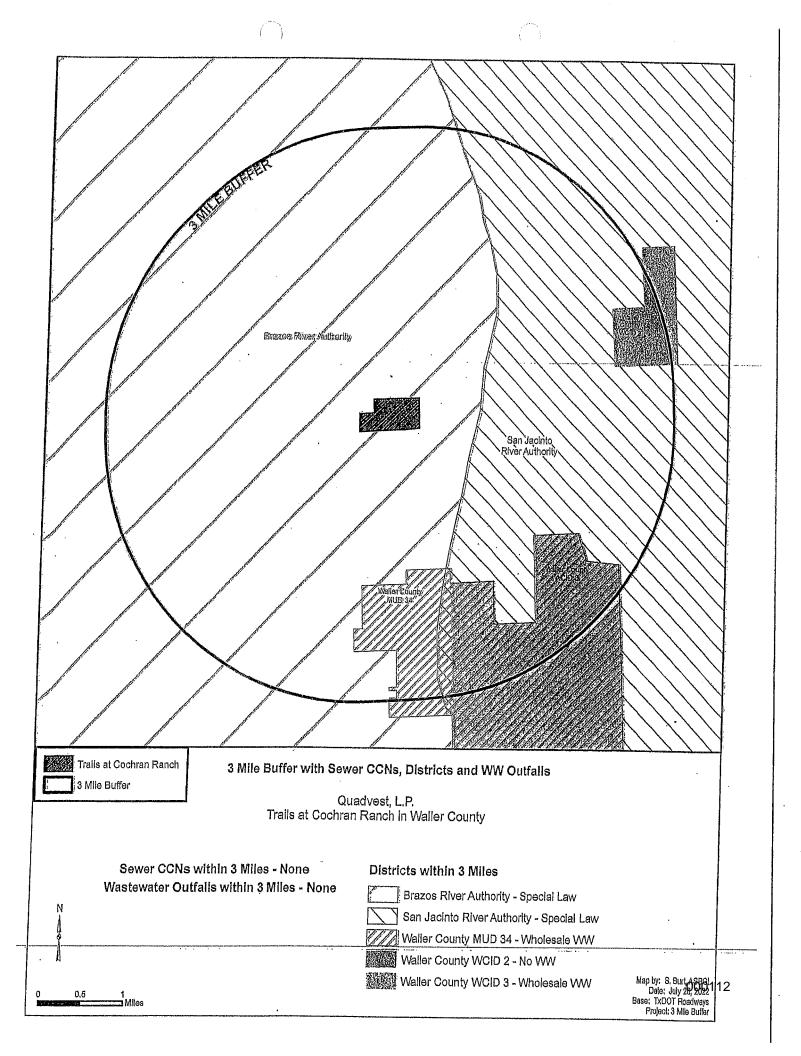
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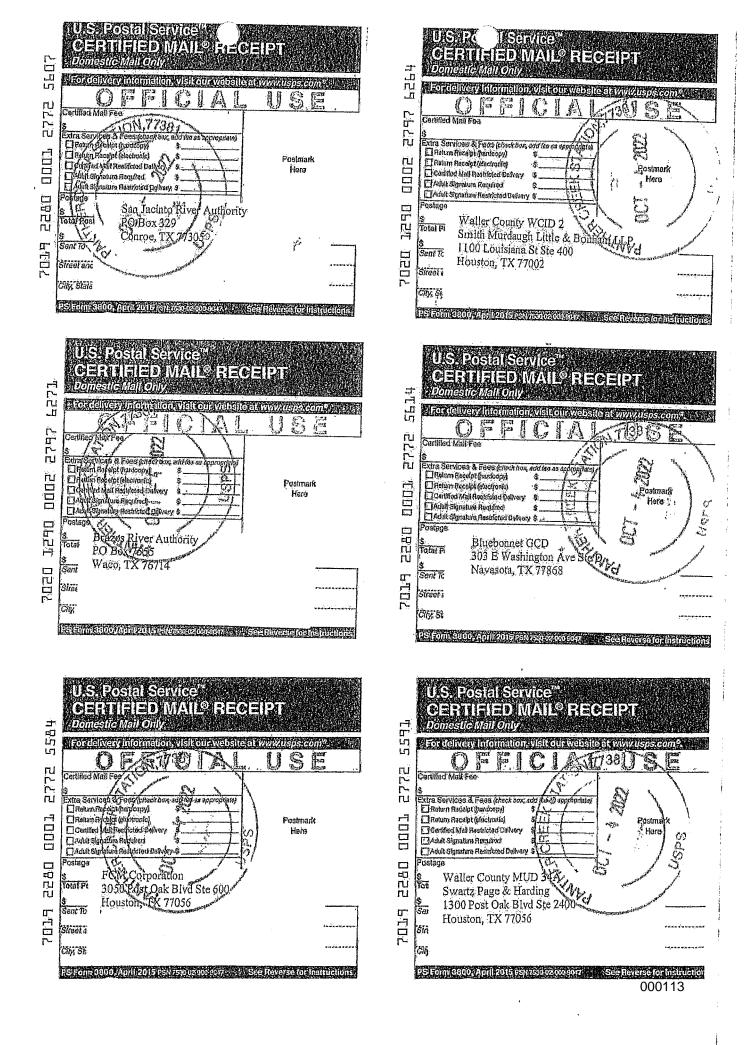
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GAD.
April H. Trader
Engineering & Construction
Coordinator

Sincerely.

Date of Reply:	
Name of Utility	
Ability to Provide Service?	
(Yes/No)	
Printed Name	
Organization	





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Waller County WCID 2 Smith Murdaugh Little & Bonham LLP 1100 Louisiana St Ste 400

26926 FM 2978 Magnolia, TX 77354

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ATTACHMENT O

DESIGN CALCULATIONS

(Technical Report 1.1: Section 4)

Proposed Organic Loading

Influent Conditions Average Daily Flow - Qav 2hr. Peak Flow (Qpk) BOD₅(lbs/day)@.1668 lb/capita	First Phase GPD GPM 62,500 43 250,000 174 143,3438	Second Phase GPD GPM 125,000 87 500,000 347 286,6875	Third Phase GPD GPM 250,000 174 1,000,000 694 573.375
2 hr AverageFlow (Qav) cf/sec 2 hr Peak Flow (Qpk) cf/sec	0.10 0.39	0.19 0.77	0.39 1.55
Effluent (30 Day Average) BOD ₅ (mg/l) TSS (mg/l)	275 360		
Process Loadings MLSS (mg/l) RASS (mg/l)	3000 6000		
Areation Total Aeration Vol. Available Organic Loading (lbs/day/1000cu ft) TCEQ Maximum Organic Loading lbs/day/1000cu ft	4284 cf 33.5 lbs 35 lbs	8568 cf 33.5 lbs 35 lbs	17136 cf 33.5 lbs 35 lbs
<u>Digester</u> Total Volume Available Digester Loadings (Vol.) / (lbs BOD₅)	3024 cf 21.1 cf/lb	6048 cf 21.1 cf/lb	12096 cf 21.1 cf/lb
TCEQ Minimum Volume for Organic Loading Retention Time	20 cf/lb 41.0 days	20 cf/lb 41.0 days	20 cf/lb 41.0 days
<u>Clarifier</u> Diameter	36 ft	36 ft (Dia "A")	36 ft (Dia "A") ft (Dia "B") ft (Dia "C")
Area TCEQ Maximum Surface Loading @	1017.9 sf	1017.9 sf	1017.9 sf
Qav Surface Loading @ Qpk	1,200 GPD/sf 246 GPD/sf	1,200 GPD/sf 491 GPD/sf	1,200 GPD/sf 982 GPD/sf
Stilling Well Diameter	3 ft	3 ft (Dia "A") ft (Dia "B")	3 ft (Dia "A") ft (Dia "B")
Stilling Well Area	7.07 sf	7.07 sf	ft (Dia "C") 7.07 sf

Vert. Flow Velosity @ Qpk (CF	S)		
/ (Area)	0.05 ft/sec	0.11 ft/sec	0.22 ft/sec
	First Phase	Second Phase	Third Phase
<u>Clarifier Weir</u>			
Weir Diameter	34 ft	34 ft	34 ft ("A")
			0 ft ("B")
IA/o to Locus att	400 0 5	400 0 5	0 ft ("C")
Weir Length	106.8 ft	106.8 ft	106.8 ft ("A")
			0.0 ft ("B")
Total Weir langth			0.0 ft ("C")
Total Weir length Maximum Weir loading at Qpk	20,000 GPD/sq.ft.	20 000 CDD/c~ #	106.8
Weir Loading at Qpk	2,341 GPD/sq.ft.	20,000 GPD/sq.ft. 4,681 GPD/sq.ft.	20,000 GPD/sq.ft. 9,362 GPD/sq.ft.
vvoii zoading at wpk	2,041 Of <i>D</i> /3q.it.	4,001 OF <i>D/</i> 3q.1t.	9,302 GFD/8q.1t.
Chlorine Contact Chamber			
Volume Required by TCEQ	464 cf	928 cf	1,857 cf
Volume Furnished cf	2,400 cf	2,400 cf	2,400 cf
Volume gal	17,952.0 gal	17,952.0 gal	17,952.0 gal
Min TCEQ Detention Time Detention Time @ Qpk	20 min	20 min	20 min
(Vol. Gal)(1440) / (Qpk GPD) Dosage Rate	103.4 min	51.7 min	25.9 min
lb/day=Qpk MGD**mg/1*8.34 Solution Water Supply	23.98 lb/day	47.96 lb/day	95.92 lb/day
GPM=20 Gpm/100lb/day	4.80 GPM	9.59 GPM	19.18 GPM

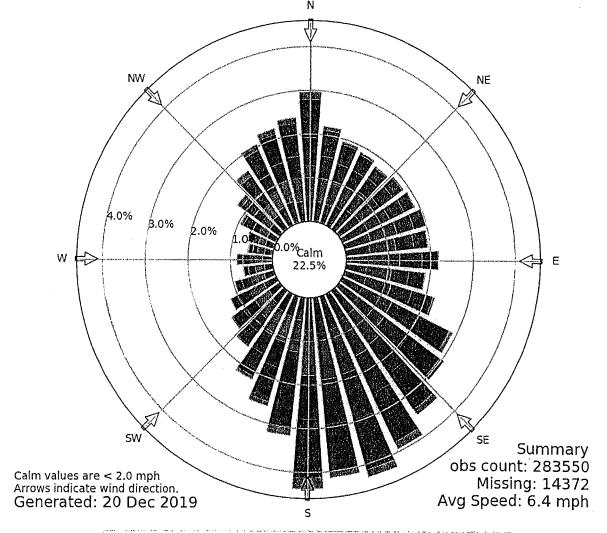
ATTACHMENT P

WIND ROSE

(Technical Report 1.1: Section 5B)



[DWH] HOUSTON/D.W. HOOKS Windrose Plot [All Year] Period of Record: 01 Oct 1986 - 20 Dec 2019



Wind Speed [mph]

2-5 (2-7) (3-

ATTACHMENT Q

SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

(Technical Report 1.0 : Section 7)

SLUDGE PRODUCTION RATES

	Avg. Da	aily Flow	Phase I (MGD)	=	0.063	
I. PARAMETERS	<u>100%</u>	Perc 75 %	cent Capa <u>5</u>	acity 60%	<u>25%</u>	
Average Daily Flows (MGD)	0.0625	0.0468	375 0.0	3125	0.015625	
Dimensions & Volume of Digester	Volume =	3,0	024	cu.ft. =	22,620	gal
CBOD₅ Removal		Influent (Effluent (Concentr Concentr Net Ren	ation =		mg/l mg/l mg/l
II. DAILY SLUDGE PRODUCTION						
Lbs. BOD ₅ /day Removal	151	113		76	38	
Lbs.of Dry Sludge (using sludge age =30days at 20°C, 0.315 lbs. Sludge/lb.BOD $_5$ removed)	48	36	;	24	12	
Lbs of Wet Sludge Produced (assume 1.5% solids, lbs.dry/0.015)	3,174	2,381	1 1,	587	794	
Volume of Wet Sludge Produced (gal/day)'= lbs. wet /8.34 lbs/gal	381	285	1	90	95	
III. REMOVAL SCHEDULE						
Digester (gal) / Vol wet sludge produced = days between empties	59	79	1	19	238	

Process Loadings

MLSS (mg/l) =

3000

Sludge will stay in the digester, clear liquor will be decanted off the digester and returned to the process to thicken the wasted solids.

Once the digester is full of thickened solids, the contents will be hauled by the contracted sludge hauler to one of the approved land application sites.

The sludge hauler will supply sludge hauling manifests showing volumes and concentration of sludge removed from the plant.

SLUDGE PRODUCTION RATES

	Phase II Avg. Daily Flow (MGD) = 0.125				
I. PARAMETERS	<u>100%</u>	Percent <u>75%</u>	t Capacity <u>50%</u>	<u>25%</u>	
Average Daily Flows (MGD)	0.125	0.09375	0.0625	0.03125	
Dimensions & Volume of Digester	Volume =	6,048	cu.ft. =	45,239	gal
CBOD₅ Removal		Influent Cond Effluent Cond Net		300 10 290	mg/l mg/l mg/l
II. DAILY SLUDGE PRODUCTION					
Lbs. BOD ₅ /day Removal	302	227	151	76	
Lbs.of Dry Sludge (using sludge age =30days at 20°C, 0.315 lbs. Sludge/lb.BOD $_5$ removed)	95	71	48	24	
Lbs of Wet Sludge Produced (assume 1.5% solids, lbs.dry/0.015)	6,349	4,762	3,174	1,587	
Volume of Wet Sludge Produced (gal/day)'= lbs. wet /8.34 lbs/gal	761	571	381	190	
III. REMOVAL SCHEDULE					
Digester (gal) / Vol wet sludge produced = days between empties	59	79	119	238	

Process Loadings

MLSS (mg/l) =

3000

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SLUDGE PRODUCTION RATES

	Avg. Dai		Phase III MGD) =	0.250	
I. PARAMETERS	<u>100%</u>	Perce <u>75%</u>	ent Capacity <u>50%</u>	<u>25%</u>	
Average Daily Flows (MGD)	0.25	0.1875	0.125	0.0625	
Dimensions & Volume of Digester	Volume =	12,096	6 cu.ft. =	180,956	gal
CBOD₅ Removal		Effluent Co	ncentration = ncentration = _ et Removal = _	300 10 290	mg/l mg/l mg/l
II. DAILY SLUDGE PRODUCTION					
Lbs. BOD ₅ /day Removal	605	453	302	151	
Lbs.of Dry Sludge (using sludge age =30days at 20°C, 0.315 lbs. Sludge/lb.BOD $_5$ removed)	190	143	95	48	
Lbs of Wet Sludge Produced (assume 1.5% solids, lbs.dry/0.015)	12,698	9,523	6,349	3,174	
Volume of Wet Sludge Produced (gal/day)'= lbs. wet /8.34 lbs/gal	1523	1142	761	381	
III. REMOVAL SCHEDULE					
Digester (gal) / Vol wet sludge produced = days between empties	119	158	238	475	

Process Loadings

MLSS (mg/l) =

3000

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