



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



Complete and submit this checklist with the application.

APPLICANT: Epitome Development LLC

PERMIT NUMBER: New Permit

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

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solids Management Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 6.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
 Expiration Date _____ Region _____
 Permit Number _____



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 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input checked="" type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00

Payment Information:

Mailed Check/Money Order Number: 03100383
Check/Money Order Amount: \$1,250
Name Printed on Check: Quiddity Engineering
EPAY Voucher Number:
Copy of Payment Voucher enclosed? Yes

Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input checked="" type="checkbox"/> New TPDES | <input type="checkbox"/> New TLAP |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes | <input type="checkbox"/> 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: [REDACTED]

Section 3. Facility Owner (Applicant) and Co-Applciant 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?

Epitome Development LLC

(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: [REDACTED]

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: Dharma Rajah

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

Title: President

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?

N/A

(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: N/A

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): N/A

First and Last Name: N/A

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

Title: N/A

First and Last Name: Dharma Rajah

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

Title: President

Organization Name: Epitome Development LLC

Mailing Address: 3040 Post Oak Blvd, #1800-156

City, State, Zip Code: Houston, TX 77056

Phone No.: 281-216-9630 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: dharma@epitome.dev

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

First and Last Name: David Clear

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

Title: Vice President

Organization Name: Epitome Development LLC

Mailing Address: 3040 Post Oak Blvd, #1800-156

City, State, Zip Code: Houston, TX 77056

Phone No.: 210-792-5021 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: david@epitome.dev

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): Mr.

First and Last Name: Dharma Rajah

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

Title: President

Organization Name: Epitome Development LLC

Mailing Address: 3040 Post Oak Blvd, #1800-156

City, State, Zip Code: Houston, TX 77056

Phone No.: 281-216-9630 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: dharma@epitome.dev

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): will be selected prior to construction

First and Last Name: [REDACTED]

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

Title: [REDACTED]

Organization Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: [REDACTED]

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: Jonathan Nguyen

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

Title: Permit Specialist

Organization Name: Quiddity Engineering

Mailing Address: 3100 Alvin Devane Blvd, Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: 512-685-5156 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: jnguyen@quiddity.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: Jonathan Nguyen

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

Title: [REDACTED]

Organization Name: Quiddity Engineering

Phone No.: 512-685-5156 Ext.: [REDACTED]

E-mail: jnguyen@quiddity.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: Taylor Public Library

Location within the building: [REDACTED]

Physical Address of Building: 801 Vance Street

City: Taylor County: Williamson

Contact Name: [REDACTED]

Phone No.: 512-352-3434 Ext.: [REDACTED]

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?

Yes No

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

Yes No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
- Yes No
5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

- A. 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):

Taylor Tract Wastewater Treatment Plant

- C. Owner of treatment facility: Epitome Development LLC

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: Epitome Development

Mailing Address: 3040 Post Oak Blvd, #1800-156

City, State, Zip Code: Houston, TX 77056

Phone No.: 281-216-9630

E-mail Address: dharma@epitome.dev

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: N/A

- E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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: N/A

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): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

A. 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:

0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973, in Williamson County, Texas 76574

B. 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:

To an unnamed tributary, then to Battleground Creek, thence to Soil Conservation Service Site 31 Reservoir, then to Battleground Creek, then to Brushy Creek in Segment No. 1244 of the Brazos River Basin.

City nearest the outfall(s): Taylor

County in which the outfalls(s) is/are located: Williamson

Outfall Latitude: 30.523506

Longitude: -97.442402

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.

application, provide an accurate location description of the sewage sludge disposal site.

N/A

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:

Jonathan Nguyen, Mark Vickery, Ramiro Garcia

D. Do you owe any fees to the TCEQ?

Yes No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

Yes No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

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: See List of Attachments

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: New Permit

Applicant: Epitome Development LLC

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.

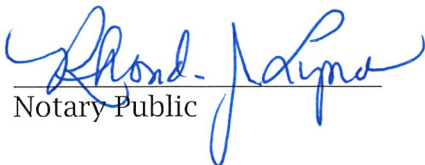
I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Dharma Rajah

Signatory title: President

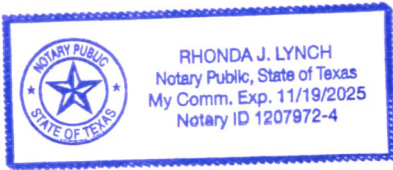
Signature:  Date: 09/22/2022
(Use blue ink)

Subscribed and Sworn to before me by the said Dharma Rajah
on this 22nd day of September, 2022.
My commission expires on the 11th day of November, 202025


Notary Public

[SEAL]

Harris
County, Texas



DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- The applicant's property boundaries
 - The facility site boundaries within the applicant's property boundaries
 - The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - The boundaries of the effluent disposal site (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
- B. Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- Readable/Writeable CD
 - Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Williamson 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):

N/A

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

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

**FOR AGENCIES REVIEWING DOMESTIC
TPDES WASTEWATER PERMIT APPLICATIONS**

TCEQ USE ONLY:	
Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New	
County: _____ Segment Number: _____	
Admin Complete Date: _____	
Agency Receiving SPIF:	
____ Texas Historical Commission	____ U.S. Fish and Wildlife
____ Texas Parks and Wildlife Department	____ U.S. Army Corps of Engineers

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

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 completely 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 in its entirety including all attachments.

The following applies to all applications:

1. Permittee: Epitome Development LLC

Permit No. WQ00 New Permit

EPA ID No. TX

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

0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973, in Williamson County, Texas 76574

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

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

First and Last Name: Jonathan Nguyen

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

Title: Permit Specialist

Mailing Address: 3100 Alvin Devane Blvd, Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: 512-685-5156 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: jnguyen@quiddity.com

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

Property is owned by applicant.

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

To an unnamed tributary, then to Battleground Creek, thence to Soil Conservation Service Site 31 Reservoir, then to Battleground Creek, then to Brushy Creek in Segment No. 1244 of the Brazos River Basin

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- Proposed access roads, utility lines, construction easements
- Visual effects that could damage or detract from a historic property's integrity
- Vibration effects during construction or as a result of project design
- Additional phases of development that are planned for the future
- Sealing caves, fractures, sinkholes, other karst features

- Disturbance of vegetation or wetlands

6. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Approximately 5 acres will be used for the treatment plant.

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

Existing land use is for agriculture.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

8. List construction dates of all buildings and structures on the property:

No existing structures within the proposed treatment plant boundary.

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

N/A



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): 0.10

2-Hr Peak Flow (MGD): 0.40

Estimated construction start date: 6/2023

Estimated waste disposal start date: 4/2024

B. Interim II Phase

Design Flow (MGD): [REDACTED]

2-Hr Peak Flow (MGD): [REDACTED]

Estimated construction start date: [REDACTED]

Estimated waste disposal start date: [REDACTED]

C. Final Phase

Design Flow (MGD): 0.30

2-Hr Peak Flow (MGD): 1.20

Estimated construction start date: 6/2024

Estimated waste disposal start date: 5/2025

D. Current operating phase: not constructed yet

Provide the startup date of the facility: [REDACTED]

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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: Attachment J

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

A residential subdivision located approximately 2 miles south of the City of Taylor in Williamson County

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

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 *Other Requirements* or *Special Provisions* of the permit.

A. Summary transmittal

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

Yes No

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

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.

Will be submitted prior to construction

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.

Interim phase will be met by ownership. Final phase will be met with restrictive easements. Buffer zone area that extends beyond the plant boundary will be into a detention pond.

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

Yes No

If **yes**, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes No

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

2. Grit and grease processing

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

3. Grit disposal

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

Yes No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. 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

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

Yes No

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

2. MSGP coverage

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

Yes No

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

TXR05 [REDACTED] or TXRNE [REDACTED]

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 or other means?

Yes No

If yes, explain below then skip to Subsection F. Other Wastes Received.

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

6. Request for coverage in individual permit

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

Yes No

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

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

Yes No

If yes, 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 BOD₅ concentration of the sludge, and the design BOD₅ 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 BOD₅ concentration of the septic waste, and the design BOD₅ 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 Conc.	Max Conc.	No. of Samples	Sample Type	Sample 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					
Enterococci (CFU/100ml)					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
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: will be selected prior to construction

Facility Operator's License Classification and Level:

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
- 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: will be selected prior to construction

TCEQ permit or registration number:

County where disposal site is located:

C. Sludge transportation method

Method of transportation (truck, train, pipe, other): will be selected prior to construction

Name of the hauler:

Hauler registration number:

Sludge is transported as a:

Liquid 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

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

Yes No

B. Sludge processing authorization

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

Sludge Composting Yes No

Marketing and Distribution of sludge Yes No

Sludge Surface Disposal or Sludge Monofill Yes No

Temporary storage in sludge lagoons Yes No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

Yes No

Section 11. Sewage Sludge Lagoons (Instructions Page 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: [REDACTED]
- USDA Natural Resources Conservation Service Soil Map:
Attachment: [REDACTED]
- Federal Emergency Management Map:
Attachment: [REDACTED]
- Site map:
Attachment: [REDACTED]

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: [REDACTED]

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: [REDACTED]

Total Kjeldahl Nitrogen, mg/kg: [REDACTED]

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: [REDACTED]

Phosphorus, mg/kg: [REDACTED]

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

Volume and frequency of sludge to the lagoon(s):

Total dry tons stored in the lagoons(s) per 365-day period:

Total dry tons stored in the lagoons(s) over the life of the unit:

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

Yes No

If yes, describe the liner below. Please note that a liner is required.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the

lagoon(s):

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [REDACTED]
- Copy of the closure plan
Attachment: [REDACTED]
- Copy of deed recordation for the site
Attachment: [REDACTED]
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [REDACTED]
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [REDACTED]
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [REDACTED]

E. Groundwater monitoring

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

Yes No

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

Attachment: [REDACTED]

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: [click here to enter text](#)

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

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

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

CERTIFICATION:

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

Printed Name: Dharma Rajah

Title: President

Signature: 

Date: 09/22/2022

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.

See Attachment K

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: [REDACTED]

If yes, attach correspondence from the city.

Attachment: [REDACTED]

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: [REDACTED]

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: [REDACTED]

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: Attachment M

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

Attachment: Attachment M

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: no connection fee has been provided yet

Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): [redacted]

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [redacted]

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [redacted]

Provide the source of the 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	0.30	300
Subdivision		
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 sources	0.30	
AVERAGE BOD ₅ from all sources		300

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: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 4

Other:

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l:

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: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 4

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

- Chlorine: 1.0 mg/l after 20 minutes detention time at peak flow
Dechlorination process:
- Ultraviolet Light: seconds contact time at peak flow
- 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: Attachment H

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain

Will the proposed facilities be located above 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.

FEMA Firm Map 48491C0540F, See Attachment N

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:** Attachment O

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?

Yes No

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

Attachment: [REDACTED]

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: [REDACTED]

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

Attach a solids management plan to the application.

Attachment: Attachment L

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)

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: unnamed tributary

A. Receiving water type

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh
- Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

Average depth of water body within a 500-foot radius of discharge point, in feet:

- Man-made Channel or Ditch

- Open Bay
- Tidal Stream, Bayou, or Marsh
- Other, specify:

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

- Intermittent - dry for at least one week during most years
- Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

- USGS flow records
- Historical observation by adjacent landowners
- Personal observation
- Other, specify:

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Battleground Creek

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

- Yes No

If yes, discuss how.

Man-made dam downstream of the outfall. Approximately 0.3 miles downstream.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

Stream was dry. No water present.

Date and time of observation: 6/16/2022 @ 12:00

Was the water body influenced by stormwater runoff during observations?

Yes No

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

- | | |
|---|--|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff |
| <input type="checkbox"/> Upstream discharges | <input checked="" type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> Other(s), specify <input type="text" value="link here to enter"/> |
| <input type="checkbox"/> | |

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input checked="" type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |

Domestic water supply

Industrial water supply

Park activities

Other(s), specify

[click here to enter](#)

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

**LIST OF ATTACHMENTS
EPITOME DEVELOPMENT
TAYLOR TRACT WASTEWATER TREATMENT PLANT**

Attachment A – Core Data Form (Admin Report 1.0, Section 3.C)

Attachment B – USGS Map (Admin. Report 1.0, Section 13)

Attachment C – Adjacent and Downstream Landowners (Admin. Report 1.1, Section 1.A and C)

Attachment D – Original Photographs (Admin Report 1.1, Section 2)

Attachment E – Buffer Zone Map (Admin Report 1.1, Section 3.A)

Attachment F – Area Water Wells (Admin Report 1.1, Section 3.C)

Attachment G – Wetlands Map (Admin Report 1.1, Section 3.C and Tech. Report 1.1, Section 5.A)

Attachment H – Supplemental Technical Reports (Tech Report 1.0, Section 2.A and B and Tech Report 1.1, Section 4)

Attachment I – Flow Schematics (Tech Report 1.0, Section 2.C)

Attachment J – Site Drawing (Tech Report 1.0, Section 3)

Attachment K – Justification for Plant Construction (Tech Report 1.0, Section 4 and Tech Report 1.1, Section 1.A)

Attachment L – Sewage Sludge Management Plan (Tech. Report 1.1, Item 7)

Attachment M – Regionalization Surveys (Tech Report 1.1, Section 1.B.3)

Attachment N – FEMA Flood Map (Tech Rep 1.1, Section 5.A)

Attachment O – Wind Rose (Tech Report 1.1, Section 5.B)

ATTACHMENT A

CORE DATA FORM

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022





TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	8/3/2020	
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Epitome Development, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0803708713	32075318629		
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:	3040 Post Oak Blvd		
	#1800-156		
	City	Houston	State TX ZIP 77056 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		dharma@epitome.dev	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(281) 216-9630		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)
Taylor Tract WWTP

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>							
	City		State		ZIP		ZIP + 4
24. County	Williamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973						
26. Nearest City	Taylor			State	TX	Nearest ZIP Code	76574
27. Latitude (N) In Decimal:	30.523411		28. Longitude (W) In Decimal:	-97.443004			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	31	24.3	-97	26	34.8		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4952		221320					
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>							
treatment of municipal wastewater							
34. Mailing Address:	3040 Post Oak Blvd						
	#1800-156						
	City	Houston	State	TX	ZIP	77056	ZIP + 4
35. E-Mail Address:		dharma@epitome.dev					
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(281) 216-9630				() -			

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


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

SECTION IV: Preparer Information

40. Name:	Jonathan Nguyen	41. Title:	Permit Specialist
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 685-5156		() -	jnguyen@quiddity.com

SECTION V: Authorized Signature

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

Company:	Epitome Development, LLC	Job Title:	Vice President
Name (In Print):	Dharma Rajah	Phone:	(281) 216- 9630
Signature:		Date:	09/22/2022

ATTACHMENT B

USGS MAP

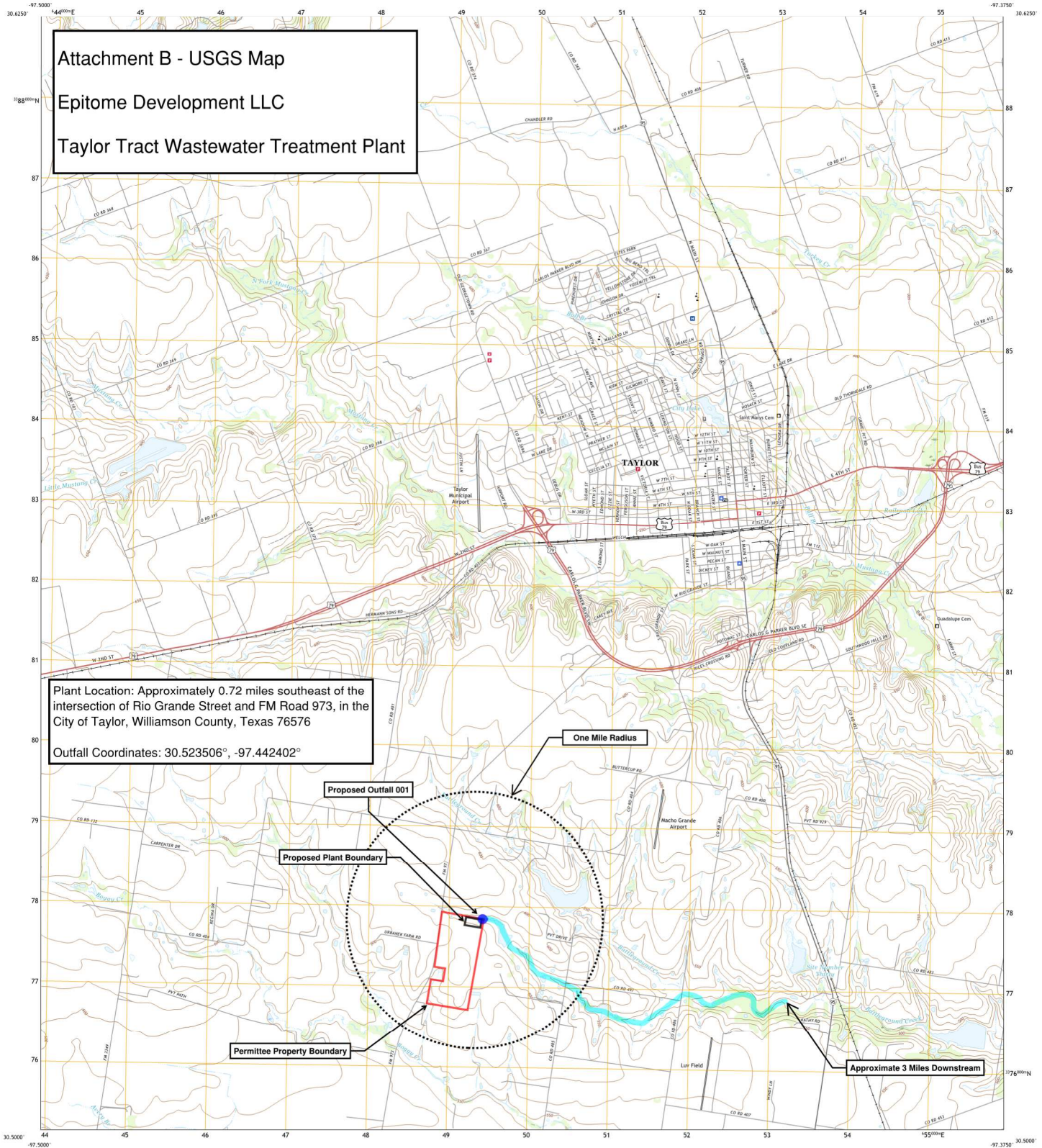
**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



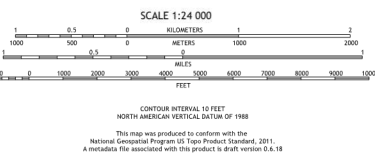
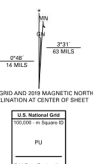
Attachment B - USGS Map
Epitome Development LLC
Taylor Tract Wastewater Treatment Plant

Plant Location: Approximately 0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973, in the City of Taylor, Williamson County, Texas 76576
Outfall Coordinates: 30.523506°, -97.442402°



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000-meter grid (interval 10 meters) to Universal Mercator, Zone 14B
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery:.....NAP, September 2016 - November 2016
Roads:.....U.S. Census Bureau, 2015
Names:.....USGS, 1979 - 2016
Hydrography:.....National Hydrography Dataset, 2002 - 2016
Contours:.....National Elevation Dataset, 2002 - 2004
Boundaries:.....Multiple sources; see metadata file 2016 - 2017
Wetlands:.....FWS National Wetlands Inventory 1982



ROAD CLASSIFICATION

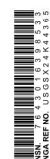
Expressway	Local Connector
Secondary Hwy	Local Road
Range	CRP
Interstate Route	US Route
	State Route

1	2	3
4	5	6
7	8	9

ALPHANUMERIC QUADRANGLES

TAYLOR, TX
2019

EPI_00055



ATTACHMENT C

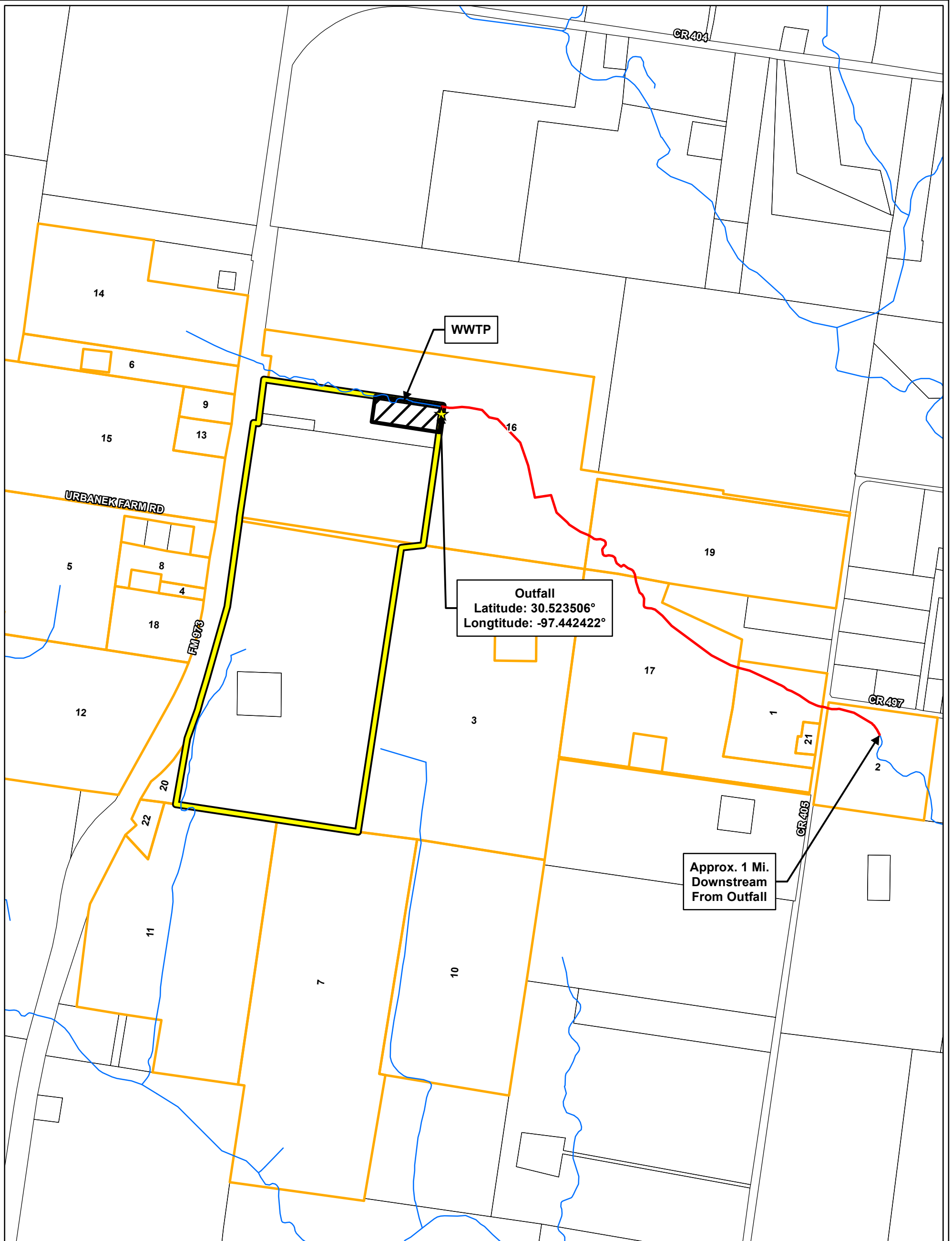
AFFECTED LANDOWNERS

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



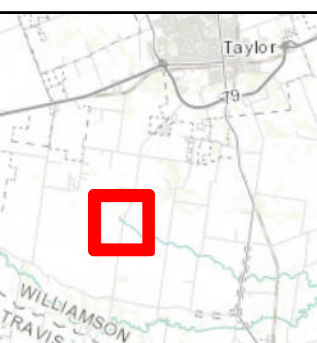
Attachment C - Affected Landowners



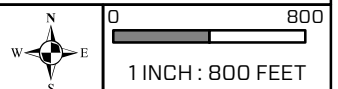
Outfall
 Latitude: 30.523506°
 Longitude: -97.442422°

Approx. 1 Mi. Downstream From Outfall

VICINITY MAP
 1 INCH = 5 MILES



TAYLOR TRACT
 WILLIAMSON COUNTY, TEXAS



LEGEND

- ★ Outfall
- 1 Mile Downstream
- Streams
- ▣ WWTP Boundary
- ▣ Adjacent Owners
- ▣ Tract Boundary
- ▣ WCAD Parcels

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



Epitome Development
Taylor Tract WWTP – Affected Landowners

List of Affected Landowners

Object ID	Owner	Mailing Address
1	THOMAS E & LORI J ORDON	1550 COUNTY ROAD 405 TAYLOR, TX 76574
2	JOHN B & LINDA K SOUTHARD	250 INVERRARY ROCKPORT, TX 78382
3	PETERSON HILDA J TR OF PETERSON FAMILY TRUST DECEDENTS TRUST B	3413 FOREST HILL EAST RD LA GRANGE, TX 78945
4	SHIRLEY M & LARRY W FLIPPIN	PO BOX 249 COUPLAND, TX 78615
5	DOUGLAS R URBANEK	501 URBANEK FARM RD TAYLOR, TX 76574
6	JACQUELINE & THOMAS ALBERT GATES	2500 FM 973 TAYLOR, TX 76574
7	ROBERT MILLER TIEMANN	4421 ROWE LN PFLUGERVILLE, TX 78660
8	SHIRLEY M FLIPPIN	2800 FM 973 TAYLOR, TX 76574
9	HOWARD E JR & MARGARET TEICHELMAN	2600 FM 973 TAYLOR, TX 76574
10	PETERSON HILDA J TR OF PETERSON FAMILY TRUST DECEDENTS TRUST B	3413 FOREST HILL EAST RD LA GRANGE, TX 78945
11	ROBERT MILLER TIEMANN	4421 ROWE LN PFLUGERVILLE, TX 78660
12	ROBERT M & CARRIE TIEMANN	4421 ROWE LN PFLUGERVILLE, TX 78660
13	HOWARD E JR & MARGARET TEICHELMAN	2600 FM 973 TAYLOR, TX 76574
14	DOUGLAS R & REBECCA LYNN URBANEK	501 URBANEK FARM RD TAYLOR, TX 76574
15	M MOORE FAMILY FARMS LLC	5000 PLAZA ON THE LAKE BLVD STE 180 AUSTIN, TX 78746
16	PATRICIA A DAFFIN	2950 FM 3349 TAYLOR, TX 76574
17	HAROLD E & MARGARET MCLEAN	1600 COUNTY ROAD 405 TAYLOR, TX 76574
18	MARILYN R & PATRICIA A STEFFEK MACHU	1401 COUNTY ROAD 406 TAYLOR, TX 76574
19	JOHN H & JUDY H COATS	1180 COUNTY ROAD 405 ATTN: JOHN HOOD COATS TAYLOR TX 76574
20	C LOPEZ ENTERPRISES LLC	407 RICES CROSSING RD TAYLOR, TX 76574
21	THOMAS E & LORI J ORDON	1550 COUNTY ROAD 405 TAYLOR, TX 76574
22	CARROL & CAROL BACHMAYER	1902 OLD COUPLAND RD TAYLOR, TX 76574

C LOPEZ ENTERPRISES LLC
407 RICES CROSSING RD
TAYLOR TX 76574

CARROL & CAROL BACHMAYER
1902 OLD COUPLAND RD
TAYLOR TX 76574

DOUGLAS R & REBECCA LYNN URBANEK
501 URBANEK FARM RD
TAYLOR TX 76574

HAROLD E & MARGARET MCLEAN
1600 COUNTY ROAD 405
TAYLOR TX 76574

HOWARD E JR & MARGARET
TEICHELMAN
2600 FM 973
TAYLOR TX 76574

JACQUELINE & THOMAS ALBERT GATES
2500 FM 973
TAYLOR TX 76574

JOHN B & LINDA K SOUTHARD
250 INVERRARY
ROCKPORT TX 78382

JOHN H & JUDY H COATS
1180 COUNTY ROAD 405
TAYLOR TX 76574

M MOORE FAMILY FARMS LLC
5000 PLAZA ON THE LAKE BLVD
STE 180
AUSTIN TX 78746

MARILYN R & PATRICIA A STEFFEK
MACHU
1401 COUNTY ROAD 406
TAYLOR TX 76574

PATRICIA A DAFFIN
2950 FM 3349
TAYLOR TX 76574

PETERSON HILDA J TR OF PETERSON
FAMILY TRUST DECEDENTS TRUST B
3413 FOREST HILL EAST RD
LA GRANGE TX 78945

ROBERT M & CARRIE TIEMANN
4421 ROWE LN
PFLUGERVILLE TX 78660

SHIRLEY M & LARRY W FLIPPIN
PO BOX 249
COUPLAND TX 78615

SHIRLEY M FLIPPIN
2800 FM 973
TAYLOR TX 76574

THOMAS E & LORI J ORDON
1550 COUNTY ROAD 405
TAYLOR TX 76574

ATTACHMENT D

ORIGINAL PHOTOGRAPHS

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



Epitome Development

Taylor Tract WWTP Original Photos

Photo 1 - Upstream of outfall, facing west
Photos 2 and 3 - Downstream of outfall, facing east
Photos 4 and 5 - Proposed treatment plant location, facing southwest

Taylor Proposed WWTP

Proposed Outfall

Google Earth

1000 ft



Epitome Development
Taylor Tract WWTP
Upstream of outfall, facing west



Epitome Development
Taylor Tract WWTP
Downstream of outfall, facing east



Epitome Development
Taylor Tract WWTP
Downstream of outfall, facing east



Epitome Development
Taylor Tract WWTP
Proposed Treatment Plant, facing southwest



Epitome Development
Taylor Tract WWTP
Proposed Treatment Plant, facing southwest



ATTACHMENT E

BUFFER ZONE

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

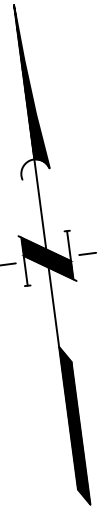
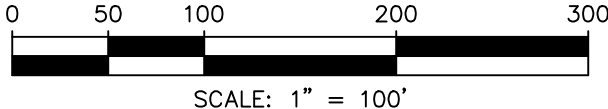
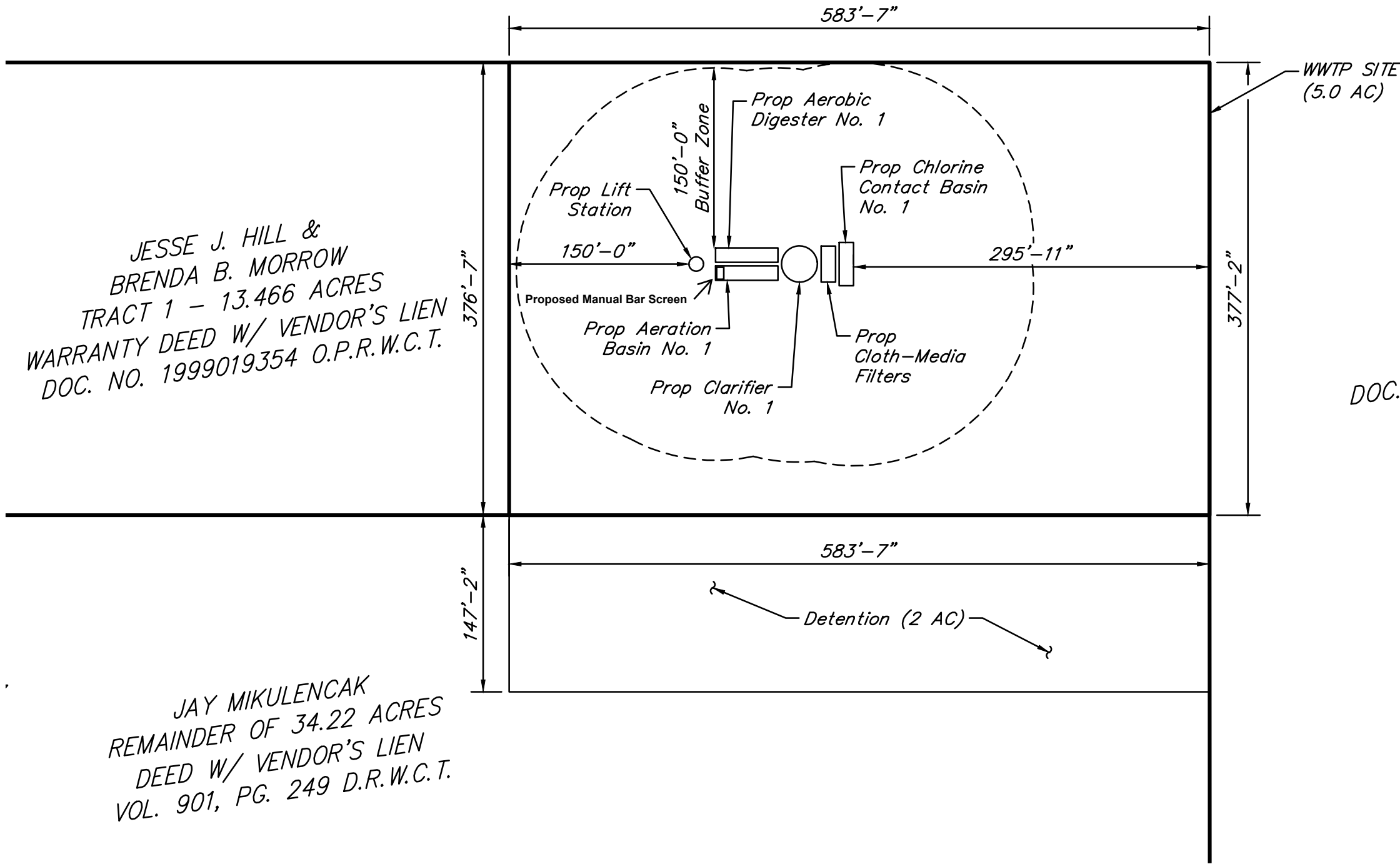
AUGUST 2022



PATRICIA A. DAFFIN
70.00 ACRES
WARRANTY DEED
DOC. NO. 2008045907 O.P.R.W.C.T.

JESSE J. HILL &
BRENDA B. MORROW
TRACT 1 - 13.466 ACRES
WARRANTY DEED W/ VENDOR'S LIEN
DOC. NO. 1999019354 O.P.R.W.C.T.

JAY MIKULENCAK
REMAINDER OF 34.22 ACRES
DEED W/ VENDOR'S LIEN
VOL. 901, PG. 249 D.R.W.C.T.



PATRICK A. DAFFIN
70.00 ACRES
WARRANTY DEED
DOC. NO. 2008045907 O.P.R.W.C.T.

**BUFFER ZONE DRAWING
EPITOME DEVELOPMENT
TAYLOR TRACT
WASTEWATER TREATMENT
PLANT PHASE I - 0.10 MGD**

WILLIAMSON COUNTY, TEXAS
AUGUST 2022

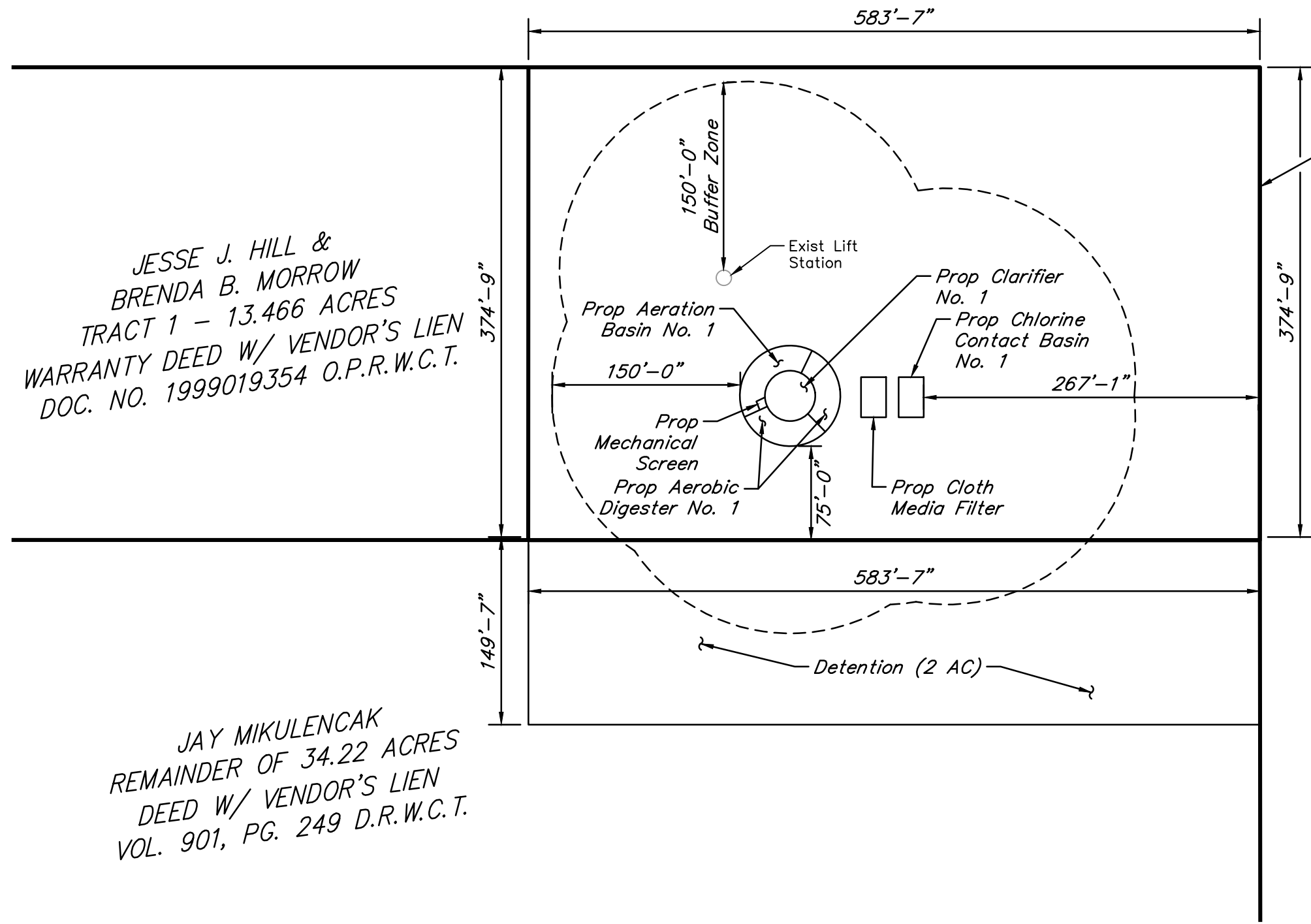


Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

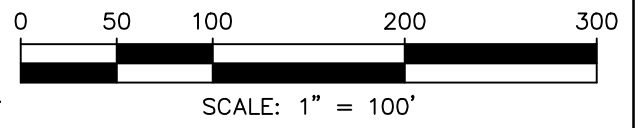
PATRICIA A. DAFFIN
 70.00 ACRES
 WARRANTY DEED
 DOC. NO. 2008045907 O.P.R.W.C.T.

JESSE J. HILL &
 BRENDA B. MORROW
 TRACT 1 - 13.466 ACRES
 WARRANTY DEED W/ VENDOR'S LIEN
 DOC. NO. 1999019354 O.P.R.W.C.T.

JAY MIKULENCAK
 REMAINDER OF 34.22 ACRES
 DEED W/ VENDOR'S LIEN
 VOL. 901, PG. 249 D.R.W.C.T.



WWTP SITE
 (5.0 AC)



PATRICK A. DAFFIN
 70.00 ACRES
 WARRANTY DEED
 DOC. NO. 2008045907 O.P.R.W.C.T.

**BUFFER ZONE DRAWING
 EPITOME DEVELOPMENT
 TAYLOR TRACT
 WASTEWATER TREATMENT
 PLANT PHASE II - 0.30 MGD**

WILLIAMSON COUNTY, TEXAS
 AUGUST 2022



k:\17232\17232-0005-01 Taylor 131 - TPDES\2 Design Phase\CAD\BZ EXHIBITS.dwg Aug 16, 2022 - 10:24am baw1

ATTACHMENT F

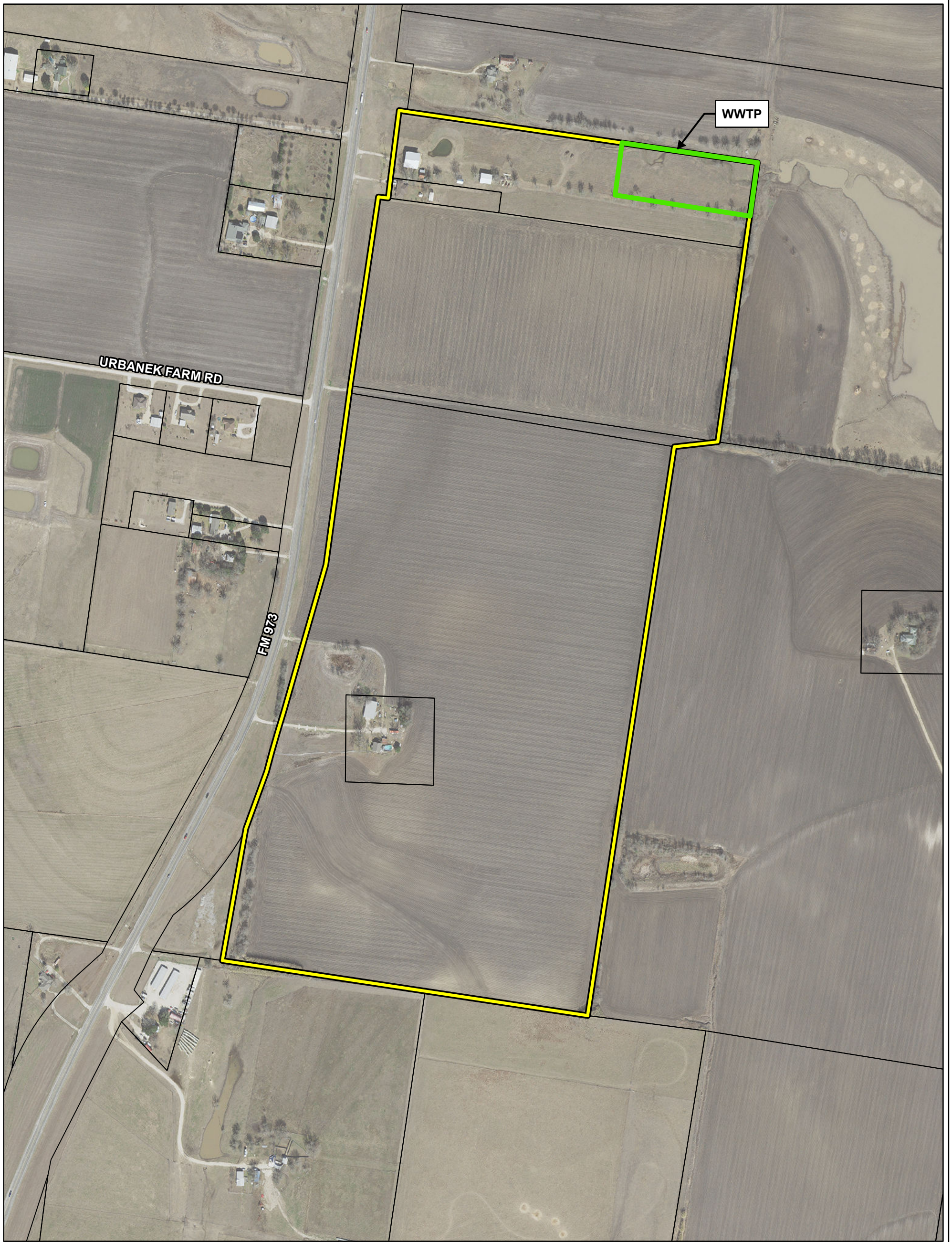
AREA WATER WELLS

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022

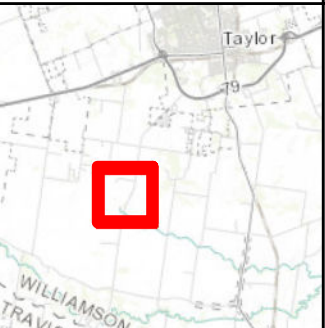
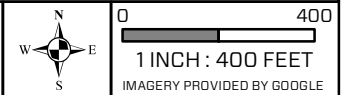


WATER WELLS MAP



VICINITY MAP
1 INCH = 5 MILES

Epitome Development - Taylor Tract WWTF
Williamson County, Texas



- LEGEND**
- Water Wells
 - Tract Boundary
 - WWTP Boundary
 - WCAD Parcels

No public or private water wells are located within 500 feet of the proposed wastewater treatment plant

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



ATTACHMENT G

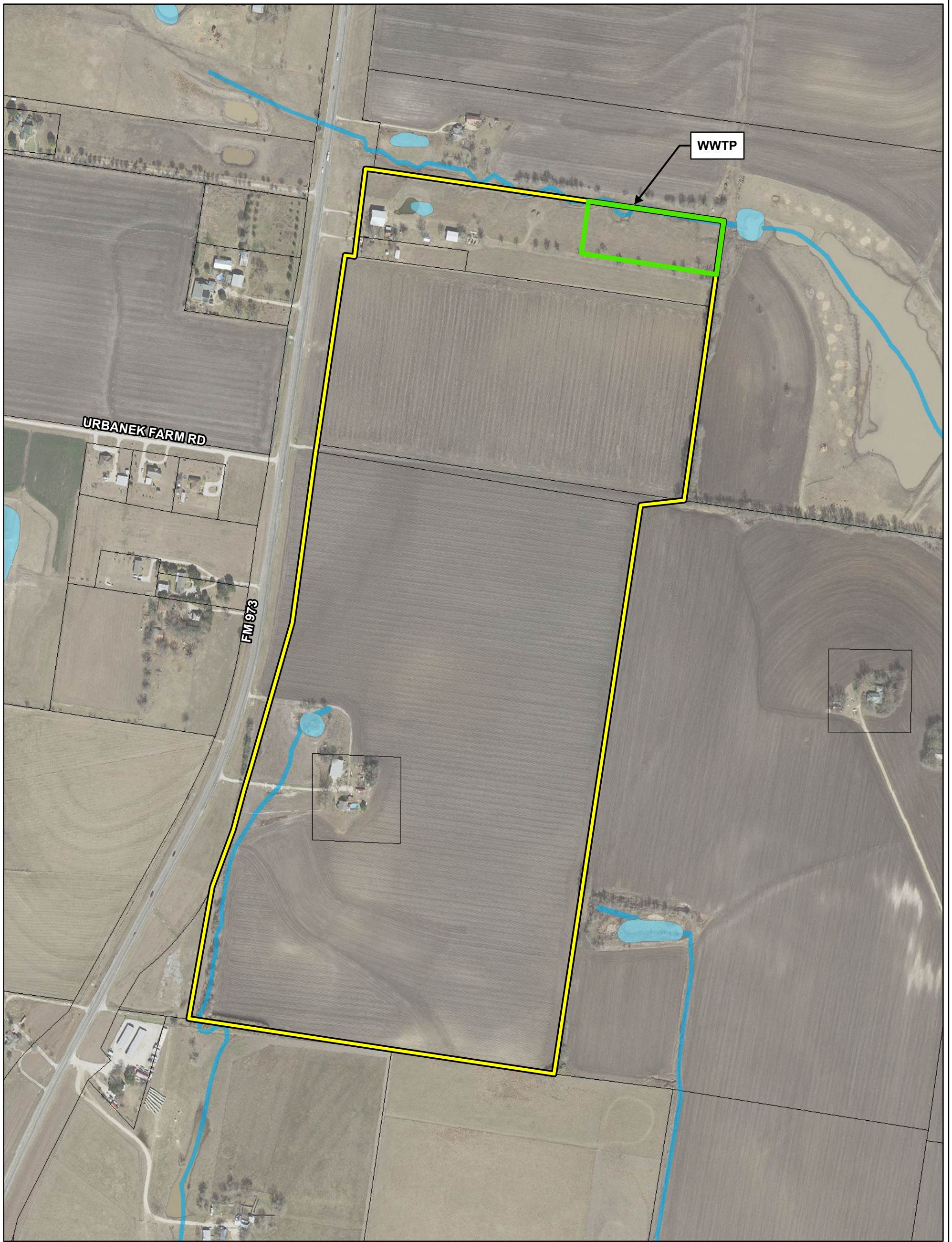
WETLANDS MAP

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022

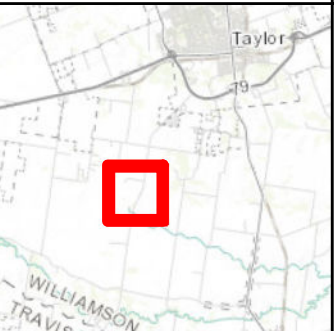
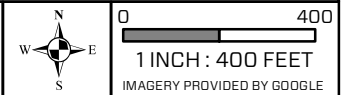


WETLANDS MAP



VICINITY MAP
1 INCH = 5 MILES

TAYLOR TRACT
WILLIAMSON COUNTY, TEXAS



LEGEND

- | | |
|----------------|-----------------------------------|
| Tract Boundary | Estuarine and Marine Deepwater |
| WWTP Boundary | Estuarine and Marine Wetland |
| WCAD Parcels | Freshwater Emergent Wetland |
| | Freshwater Forested/Shrub Wetland |
| | Freshwater Pond |
| | Lake |
| | Riverine |
| | Other |

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



ATTACHMENT H

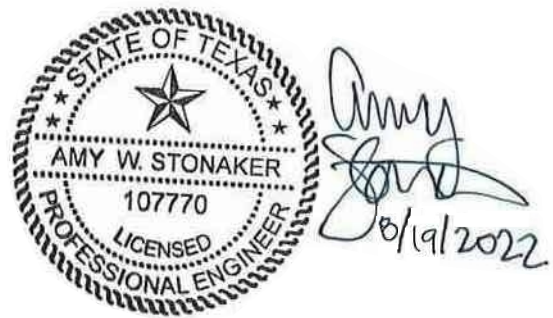
SUPPLEMENTAL TECHNICAL REPORT

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



**SUPPLEMENTAL TECHNICAL REPORT
FOR THE WASTEWATER TREATMENT PLANT
DOMESTIC WASTEWATER PERMIT
FOR
EPITOME DEVELOPMENT LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
IN
WILLIAMSON COUNTY, TEXAS**



**August 2022
Quiddity Job No. 17232-0005-01**



Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100

EPI_000075

I. INTRODUCTION

The purpose of this report is to provide additional information pertaining to items in the Domestic Administrative Report and the Domestic Technical Report for the permit application to the Taylor Tract Wastewater Treatment Facility in Williamson County, Texas. The proposed facility will be constructed to treat 0.1 million gallons per day (MGD) with a subsequent phase of 0.3 MGD.

II. LOCATION INFORMATION

Please see Section 10 of the Domestic Admin. Report 1.0 for specific location information. The proposed facility will be located approximately 0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973 in Williamson County, Texas 76574. A USGS Map with the required site information is provided as Attachment B.

The Taylor Tract Wastewater Treatment Facility discharges to an unnamed tributary, then to Battleground Creek, thence to Soil Conservation Services Site 31 Reservoir, then to Battleground Creek, then to Brushy Creek in Segment No. 1244 of the Brazos River Basin.

III. TREATMENT UNITS

(For Section 2 of Technical Report 1.0)

The proposed facility will be constructed with a first phase average daily flow of 0.10 MGD. A detailed description of the treatment process is presented below:

The proposed Phase I plant will consist of package plant facilities that are designed and constructed to treat 0.10 MGD and operate as suspended growth activated sludge process in a single-stage nitrification mode. An influent gravity line from off-site flows to the on-site lift station passing through a manual bar screen. The influent then mixes with return activated sludge to create mixed liquor and flows through the aeration basin operated in the single-stage nitrification mode to consume organics and breakdown ammonia. From the aeration basin, the mixed liquor flows to the secondary clarifier for clarification. After clarification, the treated effluent flows to cloth-media disk filters with full redundancy. From the cloth-media disk filters, the effluent flows to the chlorine contact basin for disinfection. The effluent then flows over a weir for flow measurement and into the receiving stream. Waste activated sludge is sent from the clarifiers to the aerobic digesters and will then be wet hauled off to another facility. Additional facilities include blowers, a non-potable water system, a chlorine bleach disinfection system, and a stand-by emergency generator.

The proposed Phase II plant will consist of facilities that are designed and constructed to treat 0.30 MGD average daily flow and operate as suspended growth activated sludge process in a single-stage nitrification mode. Phase II construction includes one with mechanical screening structure mounted on top of the main process unit, one (1) aeration basin, one (1) secondary clarifier, one (1) multi-stage aerobic digester, cloth media disk filters with full redundancy, one (1) chlorine contact basin, three (3) centrifugal blowers, a non-potable water system, and a chlorine bleach disinfection system. The calculations for the proposed sizing and units are for anticipated stricter limits.

IV. DESIGN CALCULATIONS AND FEATURES

(For Section 2 of Technical Report 1.0 & Section 4 of Technical Report 1.1)

Design calculations are provided as part of this report on the following pages for all phases of construction.

The facilities are equipped with design features to prevent overflows or bypassing of untreated wastewater. A backup diesel generator will be installed onsite with an automatic transfer switch to provide power to essential equipment in the event of a main power failure. The lift station is designed with a redundant pump to protect against overflows in the event of a pump failure. The entire facility also has an automatic telephone dialer that notifies the operator of pump failures, chlorine gas leaks, main power failures and high basin level.

I. SCOPE

The proposed Phase I wastewater treatment plant will consist of facilities that are designed and constructed to treat 0.10 MGD and operate as suspended growth activated sludge process in a single-stage nitrification mode. Construction includes one (1) manual bar screen, one (1) aeration basin, one (1) clarifier, cloth-media disk filters, one (1) multi-stage aerobic digester, one (1) chlorine contact basin, three (3) centrifugal blowers, a non-potable water system, and a chlorine bleach disinfection system.

II. PROPOSED WASTEWATER TREATMENT PLANT DESIGN

A. DESIGN CRITERIA

1. Proposed Effluent Limits.

- a. BOD₅ = 10 mg/l (daily average)
- b. TSS = 15 mg/l (daily average)
- c. NH₃-N = 3 mg/l (daily average)
- d. DO = 4 mg/l (weekly grab)
- e. E.coli = 126 CFU

2. Process Criteria. The process criteria are taken from 30 TAC §217, Design Criteria for Domestic Wastewater Systems.

- a. Maximum Aeration Basin Organic Loading
(lb BOD₅/day/1,000 ft³) = 35
- b. Maximum Clarifier Surface Loading at Peak Flow
(gal/day/ft²) = 1,200
- c. Minimum Clarifier Detention Time
(hours) = 1.8
- d. Maximum Clarifier Weir Loading at Peak Flow
(gal/day/ft) = 20,000
- e. Minimum Chlorine Contact Detention Time at Peak Flow
(minutes) = 20
- f. Mean Cell Residence Time in Aerobic Digester*
(days) = 28*
- g. Minimum Air Required for Digester
(scfm/1,000 ft³) = 20

*28-day SRT utilized instead of a 40-day SRT for use of a multi-stage digester per EPA publication "Control of Pathogens and Vector Attraction in Sewage Sludge."

B. PROPOSED TREATMENT FACILITIES

1. Flow.

- a. Average (Design) = 1.0Q = 100,000 gpd = 69 gpm
- b. Peak (2 hour) = 4.0Q = 400,000 gpd = 278 gpm

2. Influent Composition

The following influent wastewater compositions are based on influent characteristics of similar Phase I packaged wastewater treatment facilities.

- BOD₅ = 250 mg/L
- TSS = 250 mg/L
- NH₃-N = 40 mg/L

3. Organic Loadings.

- BOD₅ = (0.10 MGD)(8.34)(250 mg/L) = 209 lbs BOD₅/day
- TSS = (0.10 MGD)(8.34)(250 mg/L) = 209 lbs TSS/day
- NH₃-N = (0.10 MGD)(8.34)(40 mg/L) = 33 lbs NH₃-N/day

4. Process Equipment.

- a. Screening. The proposed Phase I plant will consist of the construction of a manual bar screen mounted on top of the aeration basin capable of screening a peak flow of 0.4 MGD.
- b. Aeration Basin. The proposed Phase I WWTP will consist of one (1) proposed aeration basin, sized at 12' wide by 52' long. The average water depth is assumed at 10.5'.

i. Total Required Volume

$$\begin{aligned} &\text{Required Volume Using Traditional Design Method (30 TAC §217 Guidelines)} \\ &(0.10 \text{ MGD})(8.34)(250 \text{ mg/L}) / (35 \text{ lb BOD}_5 / 1,000 \text{ ft}^3) \\ &= 5,957 \text{ ft}^3 \end{aligned}$$

ii. Proposed Volume – Phase I

$$(12 \text{ ft})(52 \text{ ft})(10.5 \text{ ft}) = 6,552 \text{ ft}^3$$

iii. Actual Organic Loading

$$(209 \text{ lb BOD}_5 / \text{day}) / (6,552 \text{ ft}^3 / 1,000 \text{ ft}^3) = 31.9 \text{ lb BOD}_5 / \text{day} / 1,000 \text{ ft}^3$$

c. Secondary Clarifier. The proposed Phase I plant will consist of one (1) proposed 30' diameter clarifier with a side water depth of 10'.

- i. Required Surface Area at Peak Flow
 $(400,000 \text{ gpd}) / (1,200 \text{ gpd} / \text{ft}^2) = 333 \text{ ft}^2$
- ii. Proposed Surface Area
 $(\pi/4)(30 \text{ ft})^2 = 707 \text{ ft}^2$
- iii. Surface Loading
 - 1. At Design Flow
 $(100,000 \text{ gpd}) / (707 \text{ ft}^2) = 141 \text{ gpd} / \text{ft}^2$
 - 2. At Peak Flow
 $(400,000 \text{ gpd}) / (707 \text{ ft}^2) = 566 \text{ gpd} / \text{ft}^2$
- iv. Proposed Clarifier Weir Length
 (Includes Launder Allowance)
 $(\pi)(30 \text{ ft} - 2 \text{ ft}) = 88 \text{ ft}$
- v. Proposed Weir Loading at Peak Flow
 $(400,000 \text{ gpd}) / (88 \text{ ft}) = 4,545 \text{ gpd} / \text{ft}$
- vi. Proposed Clarifier Side Water Depth (to top of grout)
 - 1. Proposed Clarifier Side Water Depth = 10 ft
- vii. Hydraulic Detention Times at Peak Flow
 - 1. Proposed Hydraulic Detention Time at Peak Flow
 $(707 \text{ ft}^2)(10 \text{ ft})(7.48 \text{ gal} / \text{ft}^3) / (278 \text{ gal} / \text{min}) = 190 \text{ minutes}$
 $= 3.17 \text{ hours}$

d. Aerobic Digesters. The proposed Phase I WWTP will consist of one (1) multi-stage digester sized at 12' wide by 52' long. The average water depth is assumed at 10.5'.

Assume one (1) pound of solids produced per pound of BOD₅ applied; solids are 70% volatile organics; 30% of the volatiles are destroyed during digestion; 15,000 mg/l MLSS concentration in the digester on average.

- i. Digester Sizing
 - 1. Solids Production
 $(209 \text{ lb BOD}_5 / \text{day})(1 \text{ lb solids} / 1 \text{ lb BOD}_5) = 209 \text{ lb solids} / \text{day}$
 - 2. Digested Solids Production
 $(209 \text{ lb solid} / \text{day})(1 - (0.3)(0.7)) = 165 \text{ lb solids} / \text{day}$

$$3. \quad \text{Average Solids in Digester} \\ (165 \text{ lb solids/day} + 209 \text{ lb solids/day})/2 = 187 \text{ lb solids/day}$$

$$4. \quad \text{Total Solids in Digester for 28-day SRT*} \\ (187 \text{ lb solids/day})(28 \text{ days}) = 5,236 \text{ lb solids}$$

$$\text{ii. Required Volume} \\ (5,236 \text{ lb solids})(10^6)/((8.34)(15,000 \text{ mg/l MLSS in digester})(7.48)) \\ = 5,596 \text{ ft}^3$$

$$\text{iii. Proposed Volume – Phase I} \\ (12 \text{ ft})(52 \text{ ft})(10.5 \text{ ft}) = 6,552 \text{ ft}^3$$

*28-day SRT utilized instead of 40-day SRT for use of a multi-stage digester per EPA publication "Control of Pathogens and Vector Attraction in Sewage Sludge."

e. Cloth-Media Disk Filers. Two tertiary filtration basins will be installed to treat the effluent from the secondary clarifier. One tertiary filter basin will be the main duty and one fully redundant spare.

$$\text{i. Surface Area Loading Rate at Peak Flow} = 6.50 \text{ gpm/ft}^2$$

$$\text{ii. Required Submerged Surface Area Per Basin} \\ (278 \text{ gpm})/(6.50 \text{ gpm/ft}^2) = 42.7 \text{ ft}^2$$

$$\text{iii. Total Submerged Surface Area Provided Per Basin} \\ (\text{Per Manufacturer}) = 48 \text{ ft}^2$$

$$\text{iv. Actual Filtration Rate at Peak Flow Per Basin} \\ (278 \text{ gpm})/(48 \text{ ft}^2) = 5.8 \text{ gpm/ft}^2$$

f. Chlorine Contact Basin. The proposed Phase I plant will consist of one (1) proposed chlorine contact basin sized at 12' wide by 36' long. The maximum water depth is assumed to be 9 ft.

$$\text{i. Required Volume at Peak Flow} \\ (278 \text{ gpm})(20 \text{ min})/(7.48) = 743 \text{ ft}^3$$

$$\text{ii. Proposed Volume – Phase I} \\ (12 \text{ ft})(36 \text{ ft})(9 \text{ ft}) = 3,888 \text{ ft}^3$$

$$\text{iii. Actual Detention Time at Peak Flow} \\ (3,888 \text{ ft}^3)(7.48)/(278 \text{ gpm}) = 105 \text{ minutes}$$

g. Air Requirements.

i. The proposed Phase I plant will utilize coarse bubble aeration.

$$1. \quad \text{Air Required for Treatment} \\ \frac{(1.2)(250 \text{ mg/l BOD}_5) + (4.3)(40 \text{ mg/l NH}_3\text{-N})}{(250 \text{ mg/l BOD}_5)} = 1.9 \text{ lb O}_2/\text{lb BOD}_5$$

* 2.2 lb O₂/lb BOD₅ used instead per TCEQ minimum oxygen requirement for systems intended to nitrify.

2. Coarse Bubble Requirements

$$\frac{(250 \text{ mg/l BOD}_5)(8.34)(0.10 \text{ MGD})(2.2 \text{ lb O}_2/\text{ lb BOD}_5)(1.69)**}{(0.0507*)(0.23)(0.075)(1440)} = 616 \text{ scfm}$$

* TCEQ Wastewater Oxygen Transfer Efficiency for Coarse Bubble aeration (0.65%/ft x (12) ft of submergence)

** TCEQ Chapter 217 Table F.5 Submergence Correction Factor

- ii. Aerobic Digester
(6,552 ft³)(20 scfm/1000 ft³) = 131 scfm
- iii. Chlorine Contact Basin
(3,888 ft³)(20 scfm/1000 ft³) = 78 scfm
- iv. Miscellaneous Air Lifts
(4)(40 scfm) = 160 scfm
- v. Total Air Requirements (Coarse Bubble)
616 scfm + 131 scfm + 78 scfm + 160 scfm = 975 scfm

h. Blower Capacities. The proposed Phase I plant will include three (3) proposed centrifugal blowers. The capacity is calculated at 5.5 psig discharge pressure at 100°F, 80% RH, and 14.64 psia inlet conditions.

- i. Proposed Blower Capacity – Phase I
(3)(600 scfm) = 1,800 scfm
- ii. Firm Blower Capacity with Largest Unit out of Service
(2)(600 scfm) = 1,200 scfm

i. Chlorination Equipment. Calculations are for a 10% trade strength bleach (NaOCl) with a specific gravity of 1.159, has 10% availability chlorine by weight, 9.7 pounds per gallon.

- i. Chlorine Solution Dosage Rate = 6 mg/l
- ii. Required NaOCl Solution Feed Rate at Average Daily Flow
 $\frac{(0.10 \text{ MGD})(8.34)(6 \text{ mg/L})}{((10\%)/1.159)(9.7 \text{ lbs/gal})} = 6.0 \text{ gal/day}$
- iii. Required NaOCl Solution Feed Rate at Peak Flow
 $\frac{(0.40 \text{ MGD})(8.34)(6 \text{ mg/L})}{((10\%)/1.159)(9.7 \text{ lbs/gal})} = 24 \text{ gal/day}$
- iv. Maximum Bleach Storage
(Covered Storage)

$$(15 \text{ days})(12 \text{ gal/day}) = 180 \text{ gal}$$

v. Proposed Bleach Storage
 $(1)(160 \text{ gal}) = 160 \text{ gal}$

One (1) 160-gallon bulk storage tank will be provided.

I. SCOPE

The proposed Phase II plant will consist of facilities that are designed and constructed to treat 0.30 MGD and operate as suspended growth activated sludge process in a single-stage nitrification mode. Phase II construction includes one (1) mechanical screen, one (1) aeration basin, one (1) secondary clarifier, cloth-media filters, one (1) multi-stage aerobic digester, one (1) chlorine contact basin, three (3) centrifugal blowers, a non-potable water system, and a chlorine bleach disinfection system.

II. PROPOSED WASTEWATER TREATMENT PLANT DESIGN

A. DESIGN CRITERIA

1. Proposed Effluent Limits.

- a. BOD₅ = 10 mg/l (daily average)
- b. TSS = 15 mg/l (daily average)
- c. NH₃-N = 3 mg/l (daily average)
- d. *E. coli* = 126 CFU
- e. DO = 4 mg/l (weekly grab)

2. Process Criteria. The process criteria are taken from 30 TAC §217, Design Criteria for Domestic Wastewater Systems.

- a. Maximum Aeration Basin Organic Loading
(lb BOD₅/day/1,000 ft³) = 35
- b. Maximum Clarifier Surface Loading at Peak Flow
(gal/day/ft²) = 1,200
- c. Minimum Clarifier Detention Time
(hours) = 1.8
- d. Maximum Clarifier Weir Loading at Peak Flow
(gal/day/ft) = 30,000
- e. Minimum Chlorine Contact Detention Time at Peak Flow
(minutes) = 20
- f. Mean Cell Residence Time in Aerobic Digester*
(days) = 28*
- g. Minimum Air Required for Digester
(scfm/1,000 ft³) = 20

*28-day SRT utilized instead of a 40-day SRT for use of a multi-stage digester per EPA publication "Control of Pathogens and Vector Attraction in Sewage Sludge."

B. PROPOSED TREATMENT FACILITIES

1. Flow.

a. Average (Design) = 1.0Q = 300,000 gpd = 208 gpm

b. Peak (2 hour) = 4.0Q = 1,200,000 gpd = 833 gpm

2. Influent Composition

The following influent wastewater compositions are based on similar permanent wastewater treatment facilities that will be subject to full build out of the Development and associated loadings.

BOD₅ = 325 mg/L

TSS = 325 mg/L

NH₃-N = 60 mg/L

3. Organic Loadings.

BOD₅ = (0.30 MGD)(8.34)(325 mg/L) = 813 lbs BOD₅/day

TSS = (0.30 MGD)(8.34)(325 mg/L) = 813 lbs TSS/day

NH₃-N = (0.30 MGD)(8.34)(60 mg/L) = 150 lbs NH₃-N/day

4. Process Equipment.

a. Elevated Headworks Screening. The proposed Phase II WWTP will consist of the construction of an elevated headworks with a mechanical bar screen capable of screening a peak flow of 1.20 MGD.

b. Aeration Basin. The proposed Phase II WWTP will consist of one (1) proposed aeration basin, with a total surface area of 1,783 ft². The average water depth is assumed at 14.5'.

i. Total Required Volume

Required Volume Using Traditional Design Method (30 TAC §217 Guidelines)

$(0.30 \text{ MGD})(8.34)(325 \text{ mg/L}) / (35 \text{ lb BOD}_5 / 1,000 \text{ ft}^3) = 23,233 \text{ ft}^3$

ii. Proposed Volume

$(\pi/4)(1/2)(80 \text{ ft} - 42 \text{ ft})^2(14.5 \text{ ft}) = 25,847 \text{ ft}^3$

iii. Actual Organic Loading
 $(813 \text{ lb BOD}_5/\text{day})/(35 \text{ lb}/1,000 \text{ ft}^3) = 25 \text{ lb BOD}_5/\text{day}/1,000 \text{ ft}^3$

c. Secondary Clarifier. The proposed Phase II WWTP will consist of one (1) proposed 40' diameter clarifier with a side water depth of 14.0'.

i. Required Surface Area at Peak Flow
 $(1,200,000 \text{ gpd})/(1,200 \text{ gpd}/\text{ft}^2) = 1,000 \text{ ft}^2$

ii. Proposed Surface Area
 $(1)(\pi/4)(40 \text{ ft})^2 = 1,257 \text{ ft}^2$

iii. Surface Loading

1. At Design Flow
 $(300,000 \text{ gpd})/(1,257 \text{ ft}^2) = 239 \text{ gpd}/\text{ft}^2$

2. At Peak Flow
 $(1,200,000 \text{ gpd})/(1,257 \text{ ft}^2) = 955 \text{ gpd}/\text{ft}^2$

iv. Proposed Clarifier Weir Length
(Includes Launder Allowance)
 $(1)(\pi)(40 \text{ ft} - 2 \text{ ft}) = 119 \text{ ft}$

v. Proposed Weir Loading at Peak Flow
 $(1,200,000 \text{ gpd})/(119 \text{ ft}) = 10,084 \text{ gpd}/\text{ft}$

vi. Proposed Clarifier Side Water Depth (to top of grout)

1. Proposed Clarifier Side Water Depth = 14.0 ft

vii. Hydraulic Detention Times at Peak Flow

1. Proposed Hydraulic Detention Time at Peak Flow
 $(1,257 \text{ ft}^2)(14.0 \text{ ft})(7.48 \text{ gal}/\text{ft}^3)/(833 \text{ gal}/\text{min})$
= 158 minutes
= 2.6 hours

d. Aerobic Digesters. The proposed Phase II WWTP will consist of one (1) multi-stage digester with a surface area of 1,825 ft². The average water depth is assumed at 14.5'.

Assume one (1) pound of solids produced per pound of BOD₅ applied; solids are 70% volatile organics; 30% of the volatiles are destroyed during digestion; 15,000 mg/l MLSS concentration in the digester on average.

i. Digester Sizing

1. Solids Production
 $(813 \text{ lb BOD}_5/\text{day})(1 \text{ lb solids}/1 \text{ lb BOD}_5) = 813 \text{ lb solids}/\text{day}$

2. Digested Solids Production
 $(813 \text{ lb solid/day})(1-(0.3)(0.7)) = 642 \text{ lb solids/day}$
3. Average Solids in Digester
 $(642 \text{ lb solids/day} + 813 \text{ lb solids/day})/2 = 728 \text{ lb solids/day}$
4. Total Solids in Digester for 28-day SRT*
 $(813 \text{ lb solids/day})(28 \text{ days}) = 22,764 \text{ lb solids}$

ii. Required Volume
 $(813 \text{ lb solids})(10^6)/((8.34)(15,000 \text{ mg/L MLSS in digester})(7.48)) = 778 \text{ ft}^3$

iii. Proposed Volume
 $(\pi/4)(1/2)(80 \text{ ft} - 42 \text{ ft})^2(14.5 \text{ ft}) = 25,847 \text{ ft}^3$

*28-day SRT utilized instead of 40-day SRT for use of a multi-stage digester per EPA publication "Control of Pathogens and Vector Attraction in Sewage Sludge."

- e. Cloth-Media Disk Filers. Two tertiary filtration basins will be installed to treat the effluent from the secondary clarifier. One tertiary filter basin will be the main duty and one fully redundant spare.

i. Surface Area Loading Rate at Peak Flow = 6.50 gpm/ft²

ii. Required Submerged Surface Area Per Basin
 $(833 \text{ gpm})/(6.50 \text{ gpm/ft}^2) = 128 \text{ ft}^2$

iii. Total Submerged Surface Area Provided Per Basin = 150 ft²

iv. Actual Filtration Rate at Peak Flow Per Basin
 $(833 \text{ gpm})/(150 \text{ ft}^2) = 5.6 \text{ gpm/ft}^2$

- f. Chlorine Contact Basin. The proposed Phase II WWTP will consist of one (1) proposed chlorine contact basin sized at 32' wide by 20' long. The average water depth is assumed to be 10 ft.

i. Required Volume at Peak Flow
 $(833 \text{ gpm})(20 \text{ min})/(7.48) = 2,227 \text{ ft}^3$

ii. Proposed Volume
 $(32 \text{ ft})(20 \text{ ft})(10 \text{ ft}) = 6,400 \text{ ft}^3$

iii. Actual Detention Time at Peak Flow
 $(6,400 \text{ ft}^3)(7.48)/(833 \text{ gpm}) = 57.5 \text{ minutes}$

- g. Air Requirements.

- i. The proposed plant will utilize coarse bubble aeration.

$$1. \text{ Air Required for Treatment} \\ \frac{(1.2)(325 \text{ mg/l BOD}_5) + (4.3)(60 \text{ mg/l NH}_3\text{-N})}{(325 \text{ mg/l BOD}_5)} = 2.00 \text{ lb O}_2/\text{lb BOD}_5$$

*2.2 lb O₂/lb BOD₅ used instead per TCEQ minimum oxygen requirement for systems intended to nitrify

2. Coarse Bubble Requirements

$$\frac{(325 \text{ mg/l BOD}_5)(8.34)(0.30 \text{ MGD})(2.2 \text{ lb O}_2/\text{lb BOD}_5)(0.955)**}{(0.0507*)(0.23)(0.075)(1440)} = 1,356 \text{ scfm}$$

* TCEQ Wastewater Oxygen Transfer Efficiency for Coarse Bubble aeration (0.65%/ft x (12) ft of submergence)

** TCEQ Chapter 217 Table F.5 Submergence Correction Factor

- ii. Aerobic Digester
(27,332 ft³)(20 scfm/1000 ft³) = 547 scfm
- iii. Chlorine Contact Basin
(6,400 ft³)(20 scfm/1000 ft³) = 128 scfm
- iv. Miscellaneous Air Lifts
(4)(40 scfm) = 160 scfm
- v. Total Air Requirements (Coarse Bubble)
1,356 scfm + 547 scfm + 128 scfm + 160 scfm = 2,291 scfm

h. Blower Capacities. The proposed plant will include three (3) proposed centrifugal blowers. The capacity is calculated at 5.5 psig discharge pressure at 100°F, 80% RH, and 14.64 psia inlet conditions.

- i. Proposed Blower Capacity
(3)(1,250 scfm) = 3,750 scfm
- ii. Firm Blower Capacity with Largest Unit out of Service
(2)(1,250 scfm) = 2,500 scfm

i. Chlorination Equipment. Calculations are for 10% trade strength bleach (NaOCl) with a specific gravity of 1.159, has 10% availability chlorine by weight, 9.7 pounds per gallon.

- i. Chlorine Solution Dosage Rate = 6 mg/l
- ii. Required NaOCl Solution Feed Rate at Average Daily Flow
 $\frac{(0.30 \text{ MGD})(8.34)(6 \text{ mg/L})}{((10\%)/1.159)(9.7 \text{ lbs/gal})} = 17.9 \text{ gal/day}$
- iii. Required NaOCl Solution Feed Rate at Peak Flow
 $\frac{(1.20 \text{ MGD})(8.34)(6 \text{ mg/L})}{((10\%)/1.159)(9.7 \text{ lbs/gal})}$

- $((10\%)/1.159)(9.7 \text{ lbs/gal}) = 71.7 \text{ gal/day}$
- iv. Maximum Bleach Storage
 (Covered Storage)
 (15 days)(17.9 gal/day) = 268.5 gal
- v. Proposed Bleach Storage
 (1)(250 gal) = 250 gal

One (1) 250-gallon bulk storage tank will be provided.



ATTACHMENT I

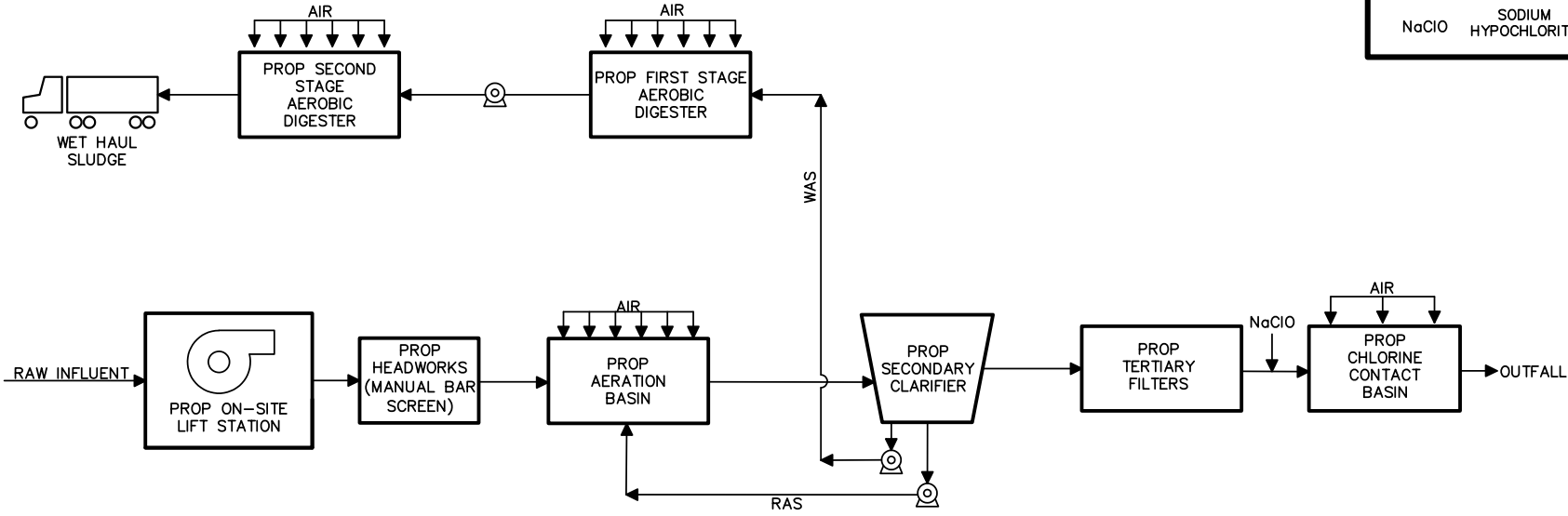
FLOW SCHEMATICS

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

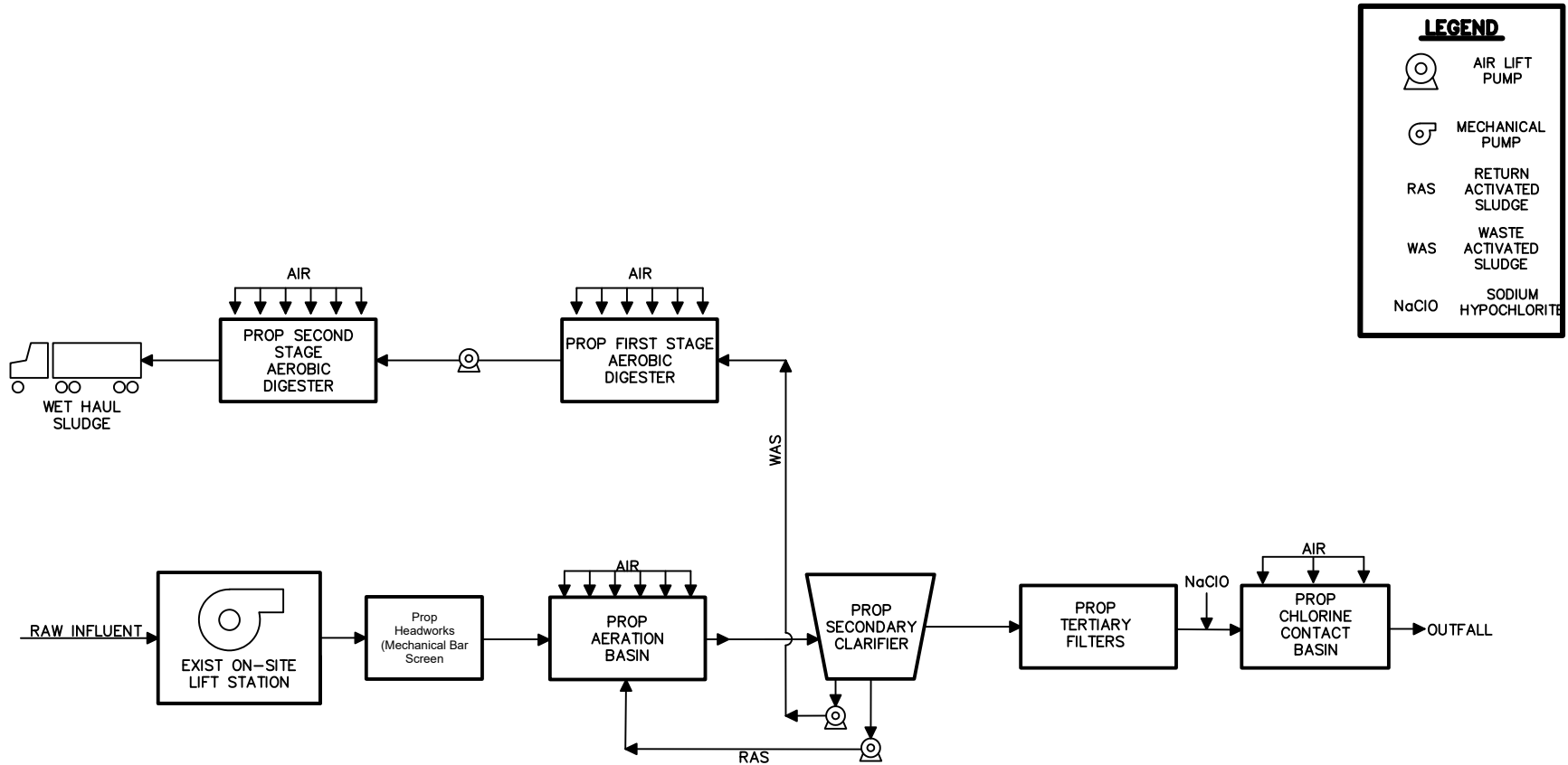
AUGUST 2022



LEGEND	
	AIR LIFT PUMP
	MECHANICAL PUMP
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
NaClO	SODIUM HYPOCHLORITE



FLOW SCHEMATIC
 EPITOME DEVELOPMENT, LLC
 TAYLOR TRACT WASTEWATER
 TREATMENT PLANT
 PHASE I – 0.10 MGD



LEGEND	
	AIR LIFT PUMP
	MECHANICAL PUMP
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
NaClO	SODIUM HYPOCHLORITE

FLOW SCHEMATIC
 EPITOME DEVELOPMENT, LLC
 TAYLOR TRACT WASTEWATER
 TREATMENT PLANT
 PHASE II - 0.30 MGD

ATTACHMENT J

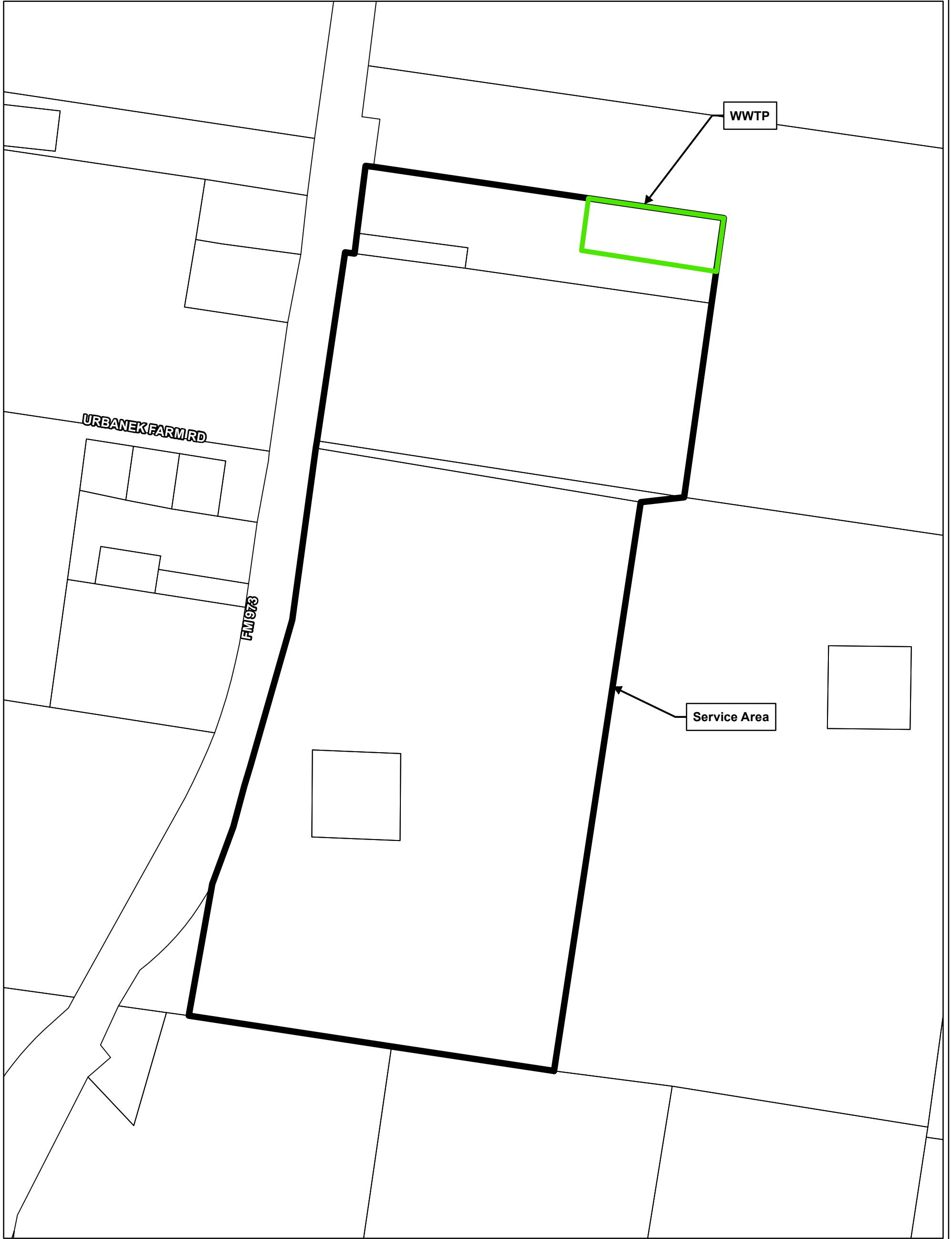
SERVICE AREA MAP

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022

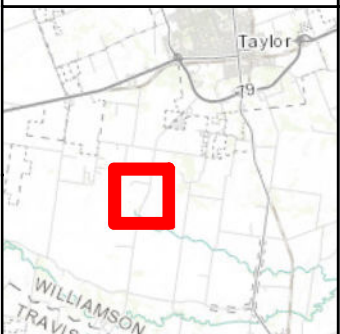


SERVICE AREA MAP

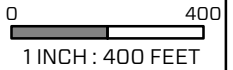


VICINITY MAP

1 INCH = 5 MILES



Epitome Development - Taylor Tract WWTF Williamson County, Texas



LEGEND

- WWTP Boundary
- Service Area
- WCAD Parcels

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



QUIDDITY
Texas Board of Professional Engineers Registration No. F-23290

ATTACHMENT K

JUSTIFICATION

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



**JUSTIFICATION FOR PLANT CONSTRUCTION
EPITOME DEVELOPMENT**

The Taylor Tract Wastewater Treatment Plant will serve a residential subdivision located approximately 2 miles south of the City of Taylor, Williamson County.

At build out, there will be 795 residential connections, 350 apartment units, and 20 commercial connections. For design purposes, the wastewater flow for residential, apartment, and commercial connections is 250 gallons per day per connection (gpd/conn), 175 gpd/conn, and 2,000 gpd/conn, respectively.

Following is the connection and flow projection to complete build out:

Month / yr	Single family residential		Apartment Units		Commercial		Total	
	connections	flow (gpd)	connections	flow (gpd)	connections	flow (gpd)	connections	flow (gpd)
Apr-24	30	7,500	0	0	0	0	30	7,500
Jan-25	165	41,250	0	0	0	0	165	41,250
Jan-26	345	86,250	350	61,250	18	36,000	713	183,500
Jan-27	525	131,250	350	61,250	20	40,000	895	232,500
Jan-28	705	176,250	350	61,250	20	40,000	1,075	277,500
Jul-28	795	198,750	350	61,250	20	40,000	1,165	300,000

Following is the construction schedule for the proposed interim and final plant phases:

<u>Proposed flow</u>	<u>Interim</u>	<u>Final</u>
Design Flow (MGD)	0.10	0.30
2-Hr Peak Flow (MGD)	0.40	1.2
Date construction to commence	6/2023	6/2024
Date construction completed and discharge begins	4/2024	5/2025

ATTACHMENT L

SLUDGE MANAGEMENT PLAN

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



**SLUDGE MANAGEMENT AND DISPOSAL PLAN
EPITOME DEVELOPMENT LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT**

INTRODUCTION

This sludge management and disposal plan is being submitted as an attachment to the TPDES permit application for Epitome Development.

The Taylor Tract Wastewater Treatment Plant will be a 0.10 MGD single stage nitrification activated sludge plant with effluent limits of 10 mg/l CBOD₅, 15 mg/l TSS, and 3.0 mg/l NH₃-N.

DIMENSIONS AND CAPACITIES

Excess solids generated from the activated plant will be wasted to an aerobic digester for further treatment. The liquid stabilized sludge will then be hauled away to a TCEQ permitted land application site for disposal by a licensed sludge hauler. The digester will have a volume of at least 13,104 ft³.

SOLIDS GENERATION

Solids to be wasted from the activated sludge process is based on 1.0 pounds of TSS produced per pound of BOD applied. Following is the amount of solids generated by the wastewater treatment plant at design flow and at 75 percent, 50 percent and 25 percent of design flow:

Percent of Design Flow	Flow (MGD)	Solids Generated (lb/day)
25	0.03	52
50	0.05	104
75	0.08	156
100	0.10	209

OPERATING PARAMETERS

The single stage nitrification activated sludge process works best between mixed liquor suspended solids (MLSS) concentrations of 2,000 – 6,000 mg/l. The operator will determine the mixed liquor concentration that produces the highest quality effluent taking into consideration factors such as hydraulic and organic loading, available air capacity, and solids handling. Field testing and laboratory analysis will be done to monitor the MLSS and maintain the appropriate solids concentration.

SOLIDS REMOVAL PROCEDURE

Laboratory analysis and field testing will be conducted to determine the solids concentration in the aeration basin. To maintain an appropriate solids inventory, the amount of solids to be wasted per day is equal to the amount of solids generated per day. This amount is stated in the SOLIDS GENERATION section of this plan. Excess solids will then be wasted from the bottom of the clarifier directly to the aerobic digester to maintain the appropriate solids concentration in the aeration basin.

SOLIDS REMOVAL SCHEDULE

It is assumed that 70% of the solids wasted to the digester are volatile solids and the volatile solids reduction is 30%. For every pound of solids wasted to the digester, 0.79 pounds of solids will need to be disposed of by land application. In addition, it is assumed that the solids can be thickened to 15,000 mg/l in the digester. At this concentration, a 13,104 ft³ digester will hold 12,262 pounds of solids. The capacity of the digester divided by the pounds per day of solids to be disposed of will give the sludge hauling schedule.

Percent of Design Flow	Solids Disposed (lb/day)	Hauling Schedule (days)
25	41	298
50	82	149
75	124	99
100	165	74

ULTIMATE SLUDGE DISPOSAL

Sludge will be liquid hauled from the plant by a TCEQ registered sludge transporter to a TCEQ permitted land application site or another wastewater treatment plant.

A manifest will be issued with each load of sludge that is hauled from the plant. The following information will be on the manifest to document ultimate disposal of the sludge:

1. Date of sludge hauling
2. Generator Name
3. Generator's address
4. Volume of sludge hauled
5. Name of transporter

6. TCEQ transporter registration number
7. Driver's name
8. Name of disposal site
9. TCEQ Site permit number
10. Date of disposal
11. Volume of sludge disposed

This information, along with laboratory and field data will be used to determine the amount of solids disposed of in dry weight form.

**SLUDGE MANAGEMENT AND DISPOSAL PLAN
EPITOME DEVELOPMENT LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT**

INTRODUCTION

This sludge management and disposal plan is being submitted as an attachment to the TPDES permit application for Epitome Development.

The Taylor Tract Wastewater Treatment Plant will be a 0.30 MGD single stage nitrification activated sludge plant with effluent limits of 10 mg/l CBOD₅, 15 mg/l TSS, and 3.0 mg/l NH₃-N.

DIMENSIONS AND CAPACITIES

Excess solids generated from the activated plant will be wasted to an aerobic digester for further treatment. The liquid stabilized sludge will then be hauled away to a TCEQ permitted land application site for disposal by a licensed sludge hauler. The digester will have a volume of at least 21,000 ft³.

SOLIDS GENERATION

Solids to be wasted from the activated sludge process is based on 1.0 pounds of TSS produced per pound of BOD applied. Following is the amount of solids generated by the wastewater treatment plant at design flow and at 75 percent, 50 percent and 25 percent of design flow:

Percent of Design Flow	Flow (MGD)	Solids Generated (lb/day)
25	0.08	203
50	0.15	407
75	0.23	610
100	0.30	813

OPERATING PARAMETERS

The single stage nitrification activated sludge process works best between mixed liquor suspended solids (MLSS) concentrations of 2,000 – 6,000 mg/l. The operator will determine the mixed liquor concentration that produces the highest quality effluent taking into consideration factors such as hydraulic and organic loading, available air capacity, and solids handling. Field testing and laboratory analysis will be done to monitor the MLSS and maintain the appropriate solids concentration.

SOLIDS REMOVAL PROCEDURE

Laboratory analysis and field testing will be conducted to determine the solids concentration in the aeration basin. To maintain an appropriate solids inventory, the amount of solids to be wasted per day is equal to the amount of solids generated per day. This amount is stated in the SOLIDS GENERATION section of this plan. Excess solids will then be wasted from the bottom of the clarifier directly to the aerobic digester to maintain the appropriate solids concentration in the aeration basin.

SOLIDS REMOVAL SCHEDULE

It is assumed that 70% of the solids wasted to the digester are volatile solids and the volatile solids reduction is 30%. For every pound of solids wasted to the digester, 0.79 pounds of solids will need to be disposed of by land application. In addition, it is assumed that the solids can be thickened to 15,000 mg/l in the digester. At this concentration, a 21,000 ft³ digester will hold 19,651 pounds of solids. The capacity of the digester divided by the pounds per day of solids to be disposed of will give the sludge hauling schedule.

Percent of Design Flow	Solids Disposed (lb/day)	Hauling Schedule (days)
25	161	122
50	321	61
75	482	41
100	642	31

ULTIMATE SLUDGE DISPOSAL

Sludge will be liquid hauled from the plant by a TCEQ registered sludge transporter to a TCEQ permitted land application site or another wastewater treatment plant.

A manifest will be issued with each load of sludge that is hauled from the plant. The following information will be on the manifest to document ultimate disposal of the sludge:

1. Date of sludge hauling
2. Generator Name
3. Generator's address
4. Volume of sludge hauled
5. Name of transporter

6. TCEQ transporter registration number
7. Driver's name
8. Name of disposal site
9. TCEQ Site permit number
10. Date of disposal
11. Volume of sludge disposed

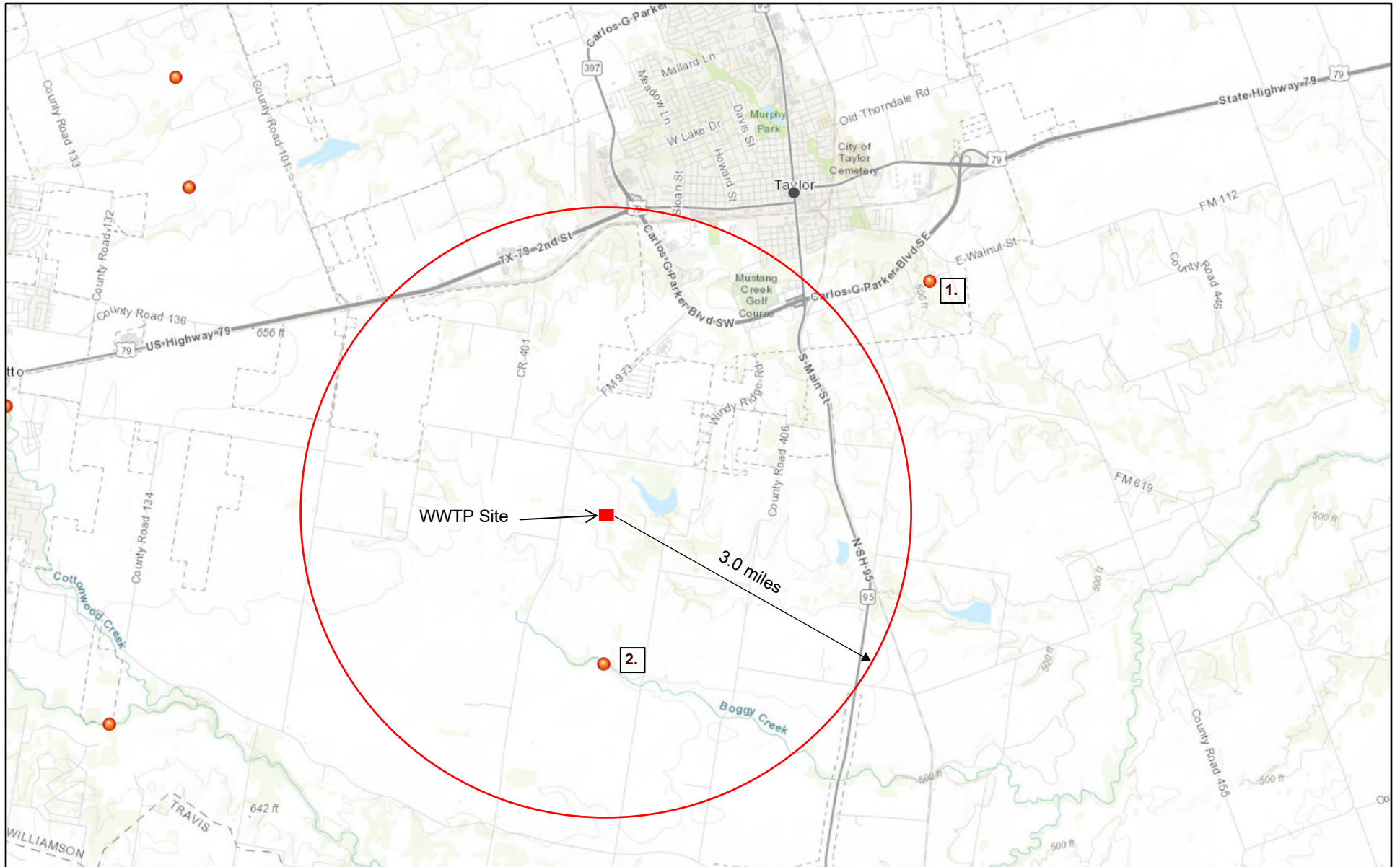
This information, along with laboratory and field data will be used to determine the amount of solids disposed of in dry weight form.

ATTACHMENT M
REGIONALIZATION SURVEYS
EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION

AUGUST 2022

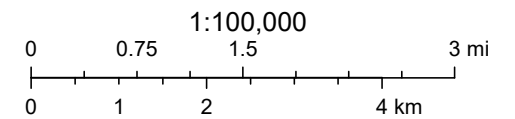


Area WWTPs



4/4/2022, 11:06:58 AM

● Wastewater Outfalls



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

Web AppBuilder for ArcGIS

Austin Community College, City of Austin, County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, METI/NASA, EPA, USDA | TCEQ |

EPI_000105

AREA WASTEWATER TREATMENT PLANTS
EPITOME DEVELOPMENT

1. Mark Daurity
Wastewater Treatment Plant Supervisor
City of Taylor
1201 North Main Street
Taylor, TX 76574
2. Matthew Tiemann
General Manager
Prairie Crossing Wastewater LLC
21100 Carries Ranch Road
Pflugerville, TX 78660

Prairie Crossing Wastewater, LLC

May 4, 2022

Attn: Jonathan Nguyen
Permitting Specialist
Quiddity
3100 Alvin Devane Blvd, Suite 150
Austin, TX 78741
nguyen@quiddity.com

Re: Wastewater Treatment Plan Regionalization Response to Epitome Development

Dear Mr. Nguyen,

This letter is in response to your April 4, 2022 letter and attachment regarding Epitome Development, LLC's ("*Epitome*") application for a TPDES permit and regionalization inquiry. Prairie Crossing Wastewater, LLC ("*Prairie Crossing*") holds TPDES Permit No. WQ0015850001 (the "*Permit*"), issued by the Texas Commission on Environmental Quality on March 5, 2021. This Permit, in its final phase, authorizes Prairie Crossing to treat and discharge up to 0.99 million gallons of treated effluent per day. It is Prairie Crossing's understanding from your April 4th letter that Epitome needs up to 0.3 mgd of wastewater treatment capacity. Accordingly, Prairie Crossing currently has the wastewater treatment capacity to serve such needs of Epitome and enabling Epitome to avoid permitting, building, and operating a second wastewater treatment plant.

To promote regionalization in Williamson County, Prairie Crossing, in order to determine how best to meet Epitome's needs, requires the following information:

- The location of potential customers/service area contemplated by Epitome's TPDES permit application/proposed wastewater treatment plant;
- The location of Epitome's proposed wastewater lines in the development, so that the parties can assess/evaluate how wastewater can be efficiently transported from the development to the Prairie Crossing wastewater treatment plant location or other wastewater facilities; and
- The location of each phase of Epitome's development that corresponds with the schedule provided in the April 4th letter.

Please let me know if you have further questions. You may email me at mtiemann@tlcdevelopment.com or call me at 512-990-1933.

21100 Carries Ranch Road * Pflugerville, Texas 78660-5312
Tel 512-990-1933 * Fax 512-990-1938

EPI_000107

Sincerely,



Matthew Tiemann
General Manager, Prairie Crossing Wastewater, LLC

cc: Dharma Rajah, Epitome Development
David J. Klein, Lloyd Gosselink
Danielle Lam, Lloyd Gosselink
TCEQ Water Supply Division

Epitome Development has been in discussion with Prairie Crossing MUD regarding regionalization with their facility. We provided them the ultimate number of connections and the schedule for development. Prairie Crossing MUD's TPDES permit was issued on March 5, 2022, and to this date, they have not yet finished design of their plant and have not begin developing their subdivision.

A site visit to Epitome's proposed treatment plant was done on June 16, 2022. No signs of development were seen where Prairie Crossing MUD was located, which is directly south of Epitome's tract. The information we provided in our survey should have given Prairie Crossing enough information to provide a service connection fee and to see if our development schedule lines up with theirs. Epitome plans to begin design when the draft permit is received and begin construction on their new subdivision when the permit is issued, which is currently ahead of schedule of Prairie Crossing MUD.

Epitome is willing to tie into Prairie Crossing MUD if their development schedules line up and the cost to connect is more beneficial than building a new plant.



3100 Alvin Devane Blvd, Suite 150
Austin, Texas 78741
Tel: 512.441.9493
www.quiddity.com

April 4, 2022

Mark Daurity
Wastewater Treatment Plant Supervisor
City of Taylor
1201 North Main Street
Taylor, TX 76574

Re: Wastewater Treatment Plant Regionalization Inquiry
Epitome Development
Williamson County, Texas

Epitome Development is applying for a TPDES permit and is seeking to determine if there are any wastewater treatment plants or collection systems within three (3) miles of the wastewater treatment plant that have capacity or are willing to expand to provide capacity for the ultimate needs of Epitome Development's wastewater treatment plant. You have been identified as operating a wastewater collection system and possibly a wastewater treatment plant within three (3) miles of the proposed wastewater treatment plant. It would be greatly appreciated if you could complete the attached survey and either fax, e-mail (nguyen@quiddity.com) or mail this questionnaire to me no later than May 4, 2022.

Please feel free to call should you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan W.", written in a cursive style.

Jonathan Nguyen
Permitting Specialist

SGB

Attachment

EPI_000109



3100 Alvin Devane Blvd, Suite 150
Austin, Texas 78741
Tel: 512.441.9493
www.quiddity.com

April 4, 2022

Matthew Tiemann
General Manager
Prairie Crossing Wastewater LLC
21100 Carries Ranch Road
Pflugerville, TX 78660

Re: Wastewater Treatment Plant Regionalization Inquiry
Epitome Development
Williamson County, Texas

Epitome Development is applying for a TPDES permit and is seeking to determine if there are any wastewater treatment plants or collection systems within three (3) miles of the wastewater treatment plant that have capacity or are willing to expand to provide capacity for the ultimate needs of Epitome Development's wastewater treatment plant. You have been identified as operating a wastewater collection system and possibly a wastewater treatment plant within three (3) miles of the proposed wastewater treatment plant. It would be greatly appreciated if you could complete the attached survey and either fax, e-mail (nguyen@quiddity.com) or mail this questionnaire to me no later than May 4, 2022.

Please feel free to call should you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan W.", written in a cursive style.

Jonathan Nguyen
Permitting Specialist

SGB

Attachment

EPI_000110

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 City, State, ZIP+4® *Waylet, TX 76504*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Postage	\$
Total Postage and Fees	\$ 7.33

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Sent To *Matthew Tilman*
 Street and Apt. No. or PO Box No. *2100 Carnes Ranch Rd*
 City, State, ZIP+4® *Praterville, TX 78660*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Jonathan Nguyen

From: Will McAshan
Sent: Friday, May 13, 2022 7:39 AM
To: Ryan Quinn; Amy Stonaker; Jonathan Nguyen; Michael Gurka, P.E.; Amy S. Hennard, PG, PE
Subject: FW: Prairie Crossing Wastewater LLC Regionalization Response
Attachments: PC WW LLC Regionalization Response.pdf

FYI

William A.C. McAshan, P.E.
Manager | Austin
wmcashan@jonescarter.com
JONES | CARTER
Main 512.441.9493 Ext. 3453
Direct 512.610.2124

From: Will McAshan
Sent: Friday, May 13, 2022 7:36 AM
To: mtiemann@tlcdevelopment.com
Cc: Eric Vann <evann@quiddity.com>; Zachary Morgan <zmorgan@quiddity.com>
Subject: RE: Prairie Crossing Wastewater LLC Regionalization Response

Matt,

Thank you for offering to support our developments wastewater needs. Would you mind answering the questions below to help us incorporate your service into our project plan?

- What will Prairie Crossing MUD (District) charge our development for wastewater service? What will the all-in impact fee be per Living Unit Equivalent (LUE)?
 - o When providing the impact fee, please pass along the gallons per day an LUE equals.
- What is the Districts timing for design, permitting & construction of the wastewater treatment plant?
- Please confirm the location we would discharge our wastewater.

Please provide feedback within 30-days, otherwise we will proceed with our discharge permit submittal to TCEQ.

Thank you,

William A.C. McAshan, P.E.
Manager | Austin
wmcashan@jonescarter.com
JONES | CARTER
Main 512.441.9493 Ext. 3453
Direct 512.610.2124

From: Matthew Tiemann <mtiemann@tlcdevelopment.com>
Sent: Wednesday, May 4, 2022 2:42 PM

Jonathan Nguyen

From: Will McAshan
Sent: Monday, June 13, 2022 10:07 AM
To: Dharma Rajah; Ryan Harper; danny.worrell@bakerbotts.com; Amy Stonaker; Jonathan Nguyen
Cc: Eric Vann
Subject: FW: Prairie Crossing Wastewater LLC Regionalization Response

Dharma – See response from Matt below. Let's chat this afternoon, does 3:30 work?



William A.C. McAshan P.E.

Manager | Austin

Email: wmcashan@quiddity.com

T: 512.441.9493

From: Matthew Tiemann <mtiemann@tlcdevelopment.com>
Sent: Monday, June 13, 2022 9:45 AM
To: Will McAshan <wmcashan@quiddity.com>
Cc: Eric Vann <evann@quiddity.com>; Zachary Morgan <zmorgan@quiddity.com>; David Klein <dklein@lglawfirm.com>; Michaela Dietrich <mdietrich@tlcdevelopment.com>; Robert Tiemann <rziemann@tlcdevelopment.com>
Subject: RE: Prairie Crossing Wastewater LLC Regionalization Response

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Will,

Good Morning. The current status of our development is preliminary plats are in progress and the wastewater treatment plant is under design. At this point, the LUE calculations for our permit used 245 gpd average dry weather wastewater flow. Once designed, our intent to continuing moving forward with securing TCEQ approval of the plans and then start to build the WWTP. The MUD has not yet established a wastewater impact fee, but I anticipate that it will be based upon the cost to design, permit, and construct the WWTP and other central wastewater facilities, if any. The MUD is in the process of hiring consultants now to determine the estimated flow rates and conduct an impact fee study.

While I appreciate you asking for the location where Epitome should be discharging its raw wastewater, I am not sure if we can nail that down at this point. As noted in my May 4, 2022 letter to Mr. Jonathan Nguyen, we asked for detailed information regarding your development plans, so that we can better understand where the best location should be. We have not received such information from him or any other Epitome representative. Know that Prairie Crossing is interested in finding a cost-efficient location, considering both distance and elevation. Generally speaking, having Epitome discharge their wastewater in a location where it can gravity flow down to the plant would appear to be the best solution. That being said, do you have a location that your prefer based upon your build-out schedule? Do you have information on line sizes and depths at that location? Further, are you requesting wholesale service or retail service?

Again, it is hard for us to determine a cost or LUE fee when I don't have information crucial to building one of the major interceptors to the plant. So, please get us the information requested in my May 4th letter and this email so that we can get you an accurate answer. Given the capacity and proximity of Prairie Crossing's TPDES Permit, as well as Prairie Crossing's schedule for getting the WWTP online, it makes no sense for Epitome to obtain a second permit and hire separate WWTP operators and customer service personnel.

Ultimately, my estimation is that Prairie Crossing can meet Epitome's schedule and amount of flows, assuming you can get us the requested information.

Thank you,

Matt Tiemann
Tiemann Land and Cattle Development, Inc.
21100 Carries Ranch Road
Pflugerville, TX 78660
Office: 512-990-1933
Cell: 512-923-1056

From: Will McAshan <wmcashan@quiddity.com>
Sent: Friday, May 13, 2022 7:36 AM
To: Matthew Tiemann <mtiemann@tlcdevelopment.com>
Cc: Eric Vann <evann@quiddity.com>; Zachary Morgan <zmorgan@quiddity.com>
Subject: RE: Prairie Crossing Wastewater LLC Regionalization Response

Matt,

Thank you for offering to support our developments wastewater needs. Would you mind answering the questions below to help us incorporate your service into our project plan?

- What will Prairie Crossing MUD (District) charge our development for wastewater service? What will the all-in impact fee be per Living Unit Equivalent (LUE)?
 - o When providing the impact fee, please pass along the gallons per day an LUE equals.
- What is the Districts timing for design, permitting & construction of the wastewater treatment plant?
- Please confirm the location we would discharge our wastewater.

Please provide feedback within 30-days, otherwise we will proceed with our discharge permit submittal to TCEQ.

Thank you,

William A.C. McAshan, P.E.
Manager | Austin
wmcashan@jonescarter.com
JONES | CARTER
Main 512.441.9493 Ext. 3453
Direct 512.610.2124

From: Matthew Tiemann <mtiemann@tlcdevelopment.com>
Sent: Wednesday, May 4, 2022 2:42 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>; Jonathan Nguyen <jnguyen@quiddity.com>
Subject: FW: Prairie Crossing Wastewater LLC Regionalization Response

Jonathan Nguyen

From: Eric Vann
Sent: Friday, July 22, 2022 10:57 AM
To: Matthew Tiemann
Cc: Zachary D. Morgan RPLS; David Klein; Michaela Dietrich; Robert Tiemann; dharma@epitome.dev; Jonathan Nguyen; Ramiro Garcia; danny.worrell@bakerbotts.com; Amy Stonaker; Will A. McAshan PE; mark vickery
Subject: RE: Prairie Crossing Wastewater LLC Regionalization Response
Attachments: 17232-0005-00 Boundary Survey 2021 12 06.pdf; CapacitySurv - Prairie.pdf; PCW LLC_WW Treatment Plan Regionalization Response Letter_07182022.pdf

Matt,

As a courtesy, below are the answers to your questions posed in the May 4th, 2022 Regionalization Response.

Note, the information provided below is not needed to answer our May 13th, 2022 Regionalization Response questions, see below email in this chain.

In addition, the April 4th, 2022 Regionalization Inquiry (Notification) provided sufficient information for your engineer to perform a cost analysis of the necessary wastewater collection upsizing between your point of discharge and your northern boundary as it aligns with our point discharge. The Notification also provided sufficient information for a cost analysis of your original wastewater treatment plant compared with the plant that would be needed to serve our additional 300,000 gallons per day. This Notification was sufficient for you to prepare a schedule, which would assist us in understanding your development's critical path constraints.

To date, none of the requested information has been provided by Prairie Crossing.

Question: The location of potential customers/service area contemplated by Epitome's TPDES permit application/proposed wastewater treatment plant.

Response: [The customer service area is approximately 130 acres and is bounded by several tracts \(R019221, R019219, R019215\) on the east side of FM 973 north of Boggy Creek adjacent to Urbanek Farm Rd.](#)

Question: The location of Epitome's proposed wastewater lines in the development, so that the parties can assess/evaluate how wastewater can be efficiently transported from the development to the Prairie Crossing wastewater treatment plant location or other wastewater facilities.

Response: [Proposed wastewater lines internal to the subdivision can be designed in such a way to allow for Prairie Crossing to connect with gravity lines at any elevation between 5 and 20 feet along the south boundary of the property \(R019215\).](#)

Question: The location of each phase of Epitome's development that corresponds with the schedule provided in the April 4th letter.

Response: [Phase 1 will be the south tract \(R019215\) and Phase 2 will be the north tracts \(R019221, R019219\). The phasing schedule provided in the April 4th inquiry corresponded with a projected home building takedown schedule.](#)

Attachments:

1. CapacitySurv-Prarie.pdf – original April 4th notification.

2. PCW LLC_WW Treatment Plan Regionalization Response Letter_07182022.pdf – response to your May 4th request.
3. 17232-0005-00 Boundary Survey 2021 1206.pdf – Boundary Survey.

Thank you,

Eric Vann P.E.

Project Manager | Austin



✉ evann@quiddity.com

☎ D: 512.685.5138
M: 406.600.7659

📍 3100 Alvin Devane Boulevard, Suite 150, Austin, Texas, 78741

www.quiddity.com



From: Matthew Tiemann <mtiemann@tlcdevelopment.com>

Sent: Friday, July 15, 2022 5:44 PM

To: William A.C. McAshan P.E. <wmcashan@quiddity.com>

Cc: Eric Vann <evann@quiddity.com>; Zachary Morgan <zmorgan@quiddity.com>; David Klein <dklein@lglawfirm.com>;
Michaella Dietrich <mdietrich@tlcdevelopment.com>; Robert Tiemann <rtiemann@tlcdevelopment.com>;
dharma@epitome.dev

Subject: RE: Prairie Crossing Wastewater LLC Regionalization Response

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Will,

Good Afternoon. The attached letter should be arriving via certified mail next week to 3100 Alvin Devane Boulevard, Suite 150, Austin, TX 78741. Have a great weekend.

Regards,

Matt Tiemann
Tiemann Land and Cattle Development, Inc.
21100 Carries Ranch Road
Pflugerville, TX 78660
Office: 512-990-1933
Cell: 512-923-1056

From: Matthew Tiemann

Sent: Thursday, June 23, 2022 4:12 PM

To: 'Will McAshan' <wmcashan@quiddity.com>

ATTACHMENT N

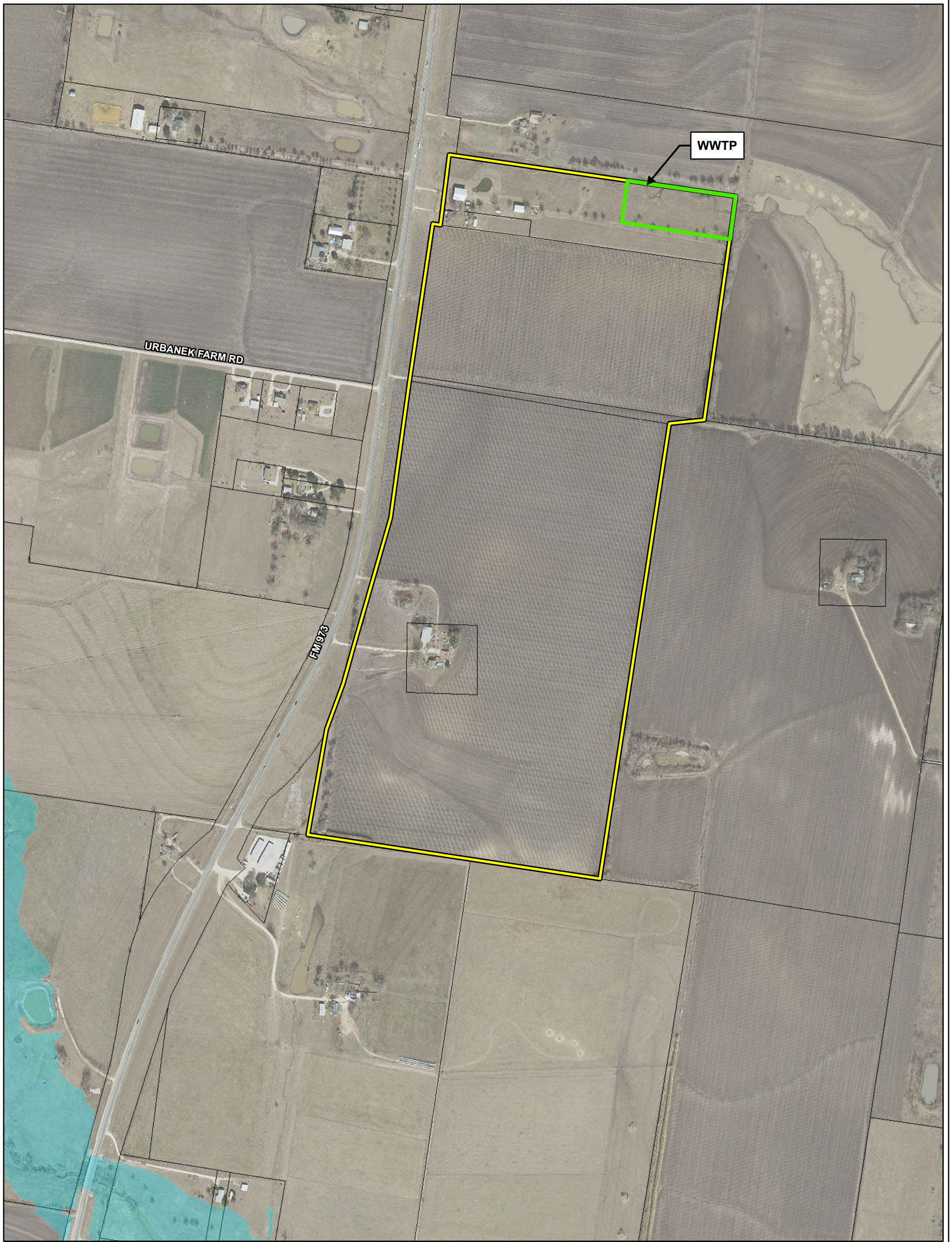
FEMA FLOOD MAP

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

AUGUST 2022



FLOODPLAIN MAP



VICINITY MAP

1 INCH = 5 MILES

Epitome Development - Taylor Tract WWTF

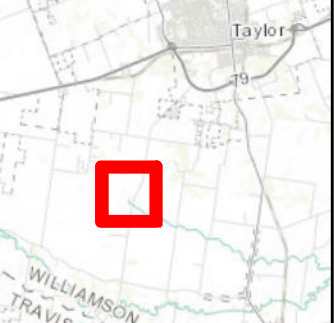
Williamson County, Texas



0 500
1 INCH : 500 FEET
IMAGERY PROVIDED BY GOOGLE

LEGEND

- Tract Boundary
- WWTP Boundary
- WCAD Parcels
- Floodway
- 100 Year
- 500 Year



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QUIDDITY
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ATTACHMENT O

WINDROSE

**EPITOME DEVELOPMENT, LLC
TAYLOR TRACT WASTEWATER TREATMENT PLANT
TPDES APPLICATION**

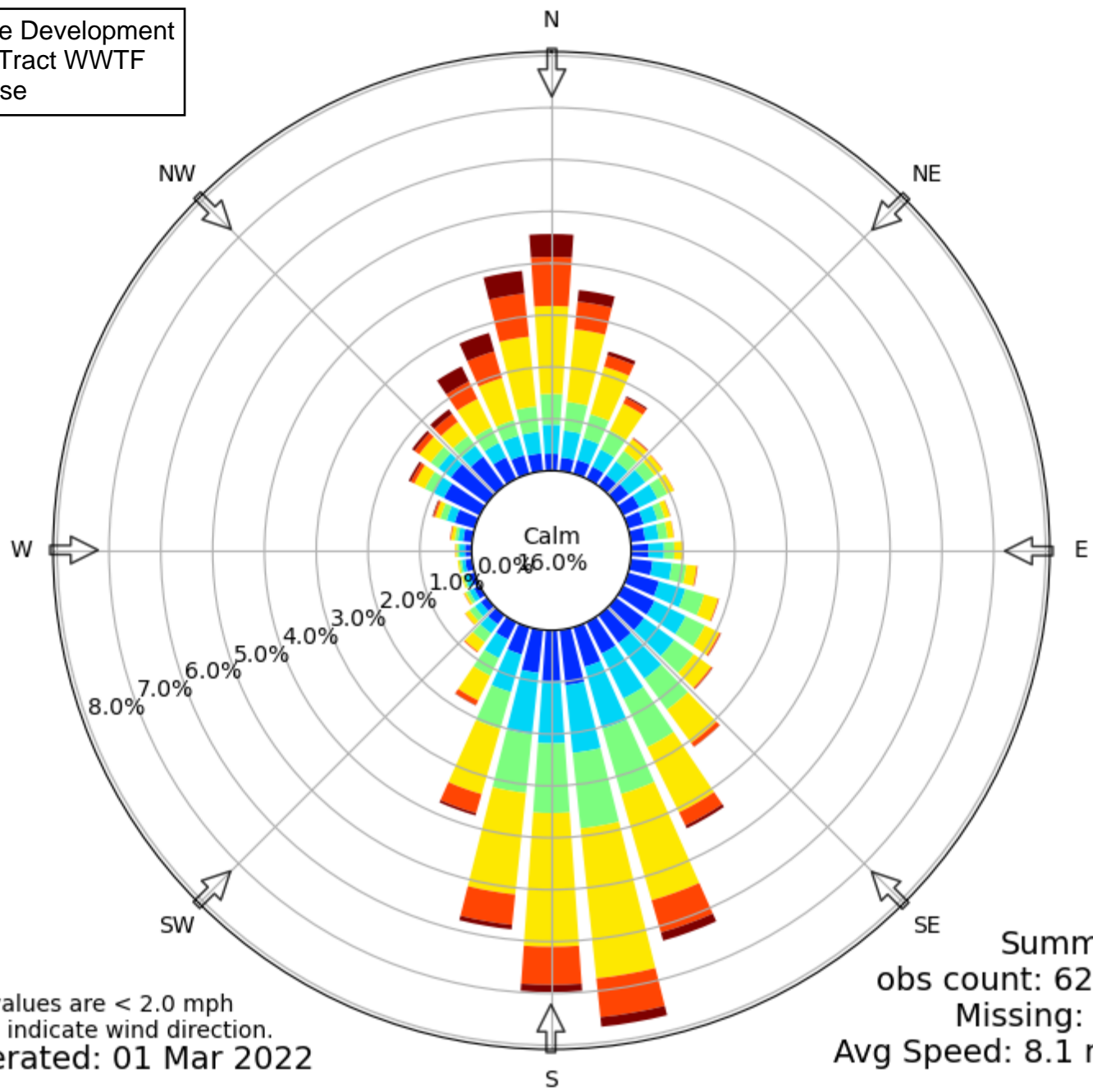
AUGUST 2022





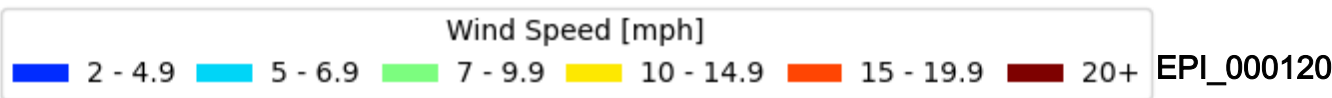
[T74] Taylor
 Windrose Plot
 Time Bounds: 11 Oct 2019 01:35 PM - 01 Mar 2022 05:35 AM America/Chicago

Epitome Development
 Taylor Tract WWTF
 Windrose



Summary
 obs count: 62593
 Missing: 343
 Avg Speed: 8.1 mph

Calm values are < 2.0 mph
 Arrows indicate wind direction.
 Generated: 01 Mar 2022



EPI_000120

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 29, 2022

Mr. Jonathan Nguyen
Permit Specialist
Quiddity Engineering
3100 Alvin Devane Boulevard, Suite 150
Austin, Texas 78741

Re: Application for Proposed Permit No. WQ0016226001 (EPA I.D TX0143570)
To be Issued to Epitome Development LLC
CN606062958, RN111577433

Dear Mr. Nguyen:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following items is requested before we can declare the application administratively complete. Please submit one original and two copies (including a cover letter) of the complete response.

1. Section 1, item C, on page 14 of administrative report 1.1: The application indicated the readable/writeable CD is submitted. However, we are unable to locate the CD. Would you please email the mailing labels in a Microsoft word format to my attention.
2. The following is a portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

Epitome Development LLC, 3040 Post Oak Boulevard #1800-156, Houston, Texas 77056, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016226001 (EPA I.D. No. TX0143570) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 300,000 gallons per day. The domestic wastewater treatment facility will be located 0.72 miles southeast of the intersection of Farm-to-Market Road 973 and Rio Grande Street, in Williamson County, Texas 76574. The discharge route will be from the plant site to an unmade tributary; thence to Battleground Creek; thence to Soil Conservation Service Site 31 Reservoir; thence to Battleground Creek; thence to Brushy Creek. TCEQ received this application on September 27, 2022. The permit application is available for viewing and copying at Taylor Public Library, 801 Vance Street, Taylor, Texas. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application

Mr. Jonathan Nguyen
Page 2
September 29, 2022
Permit No. WQ0016226001

<https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=db5bac44afbc468bbd360f8168250f&marker=-97.443%2C30.523411&level=12>

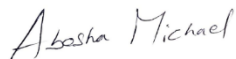
Further information may also be obtained from Epitome Development LLC at the address stated above or by calling Mr. Jonathan Nguyen, Permit Specialist, Quiddity Engineering, at 512-685-5156.

New rule requirements under Title 30 Texas Administrative Code (TAC) Chapter 39 relating to public notices have been implemented. The deficiencies listed below are new items that need to be provided to meet the alternative language requirements.

3. Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. Please provide the PLS in a Microsoft Word document.
4. Section 8, Item E.5 on page 8 of Administrative Report 1.0 indicates that public notices in Spanish are required. Please use the attached PLS Spanish template to translate the plain language summary into Spanish. Please provide the translated Spanish PLS in a Microsoft Word document
5. Section 8, Item E.5 on page 8 of Administrative Report 1.0 indicates that public notices in Spanish are required. After confirming the portion of the English NORI contained in item No. 2 of this letter does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by October 13, 2022. If you should have any questions, please do not hesitate to call me at (512) 239-4912.

Sincerely,



Abesha H. Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Enclosure(s)
Attachment 1 - Municipal TPDES and TLAP PLS Form
Attachment 2 - Municipal TPDES and TLAP PLS Form (Spanish)
Attachment 3 - Municipal Disposal New Spanish NORI

cc: Mr. Eric Vann, P.E., Project Manager, Quiddity Engineering, 3100 Alvin Devane Boulevard, Suite 150, Austin, Texas 78741

EPI_000122

Lynch, Brian

From: Jonathan Nguyen <jnguyen@quiddity.com>
Sent: Friday, September 30, 2022 8:45 AM
To: Abesha Michael
Subject: RE: Application for Proposed Permit No. WQ0016226001, Epitome Development LLC - Notice of Deficiency Letter
Attachments: Epitome Development Spanish NORI.docx; Epitome Plain Language Summary (English and Spanish).docx; Mailing Labels.docx

Good morning Abesha,

Attached are the following items in response to the TCEQ NOD letter dated September 29, 2022.

1. Affected landowners mailing labels
2. Plain language summary (English and Spanish)
3. Spanish Translated NORI
4. The NORI statement in the letter is free of errors.

Please let me know if you have any further questions regarding this application.

Thank you!



Jonathan Nguyen

Permitting Specialist

Email: jnguyen@quiddity.com

T: 512.685.5156

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Thursday, September 29, 2022 1:53 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Eric C. Vann PE <evann@quiddity.com>
Subject: Application for Proposed Permit No. WQ0016226001, Epitome Development LLC - Notice of Deficiency Letter

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Dear Mr. Nguyen:

The attached Notice of Deficiency (NOD) letter dated September 29, 2022, requests additional information needed to declare the application administratively complete. Please email and mail an original and two copies (with two copies of the cover letter) of the complete response to my attention by October 13, 2022.

Please Note: the new alternative language requirements addressed in the attached letter include new items that can either be sent by email attachment or included on a USB drive if physical copies of the response are mailed.

Please let me know if you have any questions.

Thank you,



Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912; c: 346-802-8446
Email: abesha.michael@tceq.texas.gov

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Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ00_____

SOLICITUD. Epitome Development LLC, 3040 Post Oak Boulevard #1800-156, Houston, Texas 77056, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016226001 (EPA I.D. No. TX0143570) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 300,000 galones por día. La planta está ubicada 0.72 millas al sureste de la intersección de Farm-to-Market Road 973 y Rio Grande Street en el Condado de Williamson, Texas. La ruta de descarga es del sitio de la planta a un afluente sin nombre, de allí a Battleground Creek, de allí a Soil Conservation Service Site 31 Reservoir, de allí a Battleground Creek, de allí a Brushy Creek. La TCEQ recibió esta solicitud el 27 de septiembre de 2022. La solicitud para el permiso está disponible para leerla y copiarla en Taylor Public Library, 801 Vance Street, Taylor, Texas. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=db5bac44afbc468bbddd36of8168250f&marker=-97.443%2C30.523411&level=12>

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <https://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la

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

También se puede obtener información adicional del Epitome Development, LLC a la dirección indicada arriba o llamando a Señor Jonathan Nguyen, Permit Specialist, Quiddity Engineering, al 512-685-5156.

Fecha de emisión _____ *[Date notice issued]*

Epitome Development LLC – Taylor Tract Wastewater Treatment Facility
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.

Epitome Development LLC (CN606062958) proposes to operate the Taylor Tract wastewater treatment plant (RN111577433), an activated sludge process plant operated in the extended aeration mode. The facility will be located 0.72 miles southeast of the intersection of Farm-to-Market Road 973 and Rio Grande Street, in Williamson County, Texas 76574.

This application is for a new application to discharge at a daily average flow of 300,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

Epitome Development LLC – Taylor Tract Wastewater Treatment Facility
Plain Language Summary

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

Epitome Development LLC (CN606062958) propone operar la planta de tratamiento de aguas residuales de Taylor Tract (RN111577433), una planta de proceso de lodos activados operada en el modo de aireación extendida. La instalación estará ubicada 0.72 millas al sureste de la intersección de Farm-to-Market Road 973 y Rio Grande Street, en el condado de Williamson, Texas 76574.

Esta solicitud es para una nueva solicitud para descargar a un flujo promedio diario de 300,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbónico (CBOD₅) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH₃-N) y Escherichia coli. Los contaminantes potenciales adicionales se incluyen en el Informe técnico nacional 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 barras, balsas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto de cloro.

C LOPEZ ENTERPRISES LLC
407 RICES CROSSING RD
TAYLOR TX 76574

CARROL & CAROL BACHMAYER
1902 OLD COUPLAND RD
TAYLOR TX 76574

DOUGLAS R & REBECCA LYNN URBANEK
501 URBANEK FARM RD
TAYLOR TX 76574

HAROLD E & MARGARET MCLEAN
1600 COUNTY ROAD 405
TAYLOR TX 76574

HOWARD E JR & MARGARET
TEICHELMAN
2600 FM 973
TAYLOR TX 76574

JACQUELINE & THOMAS ALBERT GATES
2500 FM 973
TAYLOR TX 76574

JOHN B & LINDA K SOUTHARD
250 INVERRARY
ROCKPORT TX 78382

JOHN H & JUDY H COATS
1180 COUNTY ROAD 405
TAYLOR TX 76574

M MOORE FAMILY FARMS LLC
5000 PLAZA ON THE LAKE BLVD
STE 180
AUSTIN TX 78746

MARILYN R & PATRICIA A STEFFEK
MACHU
1401 COUNTY ROAD 406
TAYLOR TX 76574

PATRICIA A DAFFIN
2950 FM 3349
TAYLOR TX 76574

PETERSON HILDA J TR OF PETERSON
FAMILY TRUST DECEDENTS TRUST B
3413 FOREST HILL EAST RD
LA GRANGE TX 78945

ROBERT M & CARRIE TIEMANN
4421 ROWE LN
PFLUGERVILLE TX 78660

SHIRLEY M & LARRY W FLIPPIN
PO BOX 249
COUPLAND TX 78615

SHIRLEY M FLIPPIN
2800 FM 973
TAYLOR TX 76574

THOMAS E & LORI J ORDON
1550 COUNTY ROAD 405
TAYLOR TX 76574

From: [Jonathan Nguyen](#)
To: [Sonia Bhuiya](#)
Cc: [Erwin Madrid](#); [Abesha Michael](#); [Jenna Lueg](#); [Josi Robertson](#)
Subject: RE: WQ0016226001
Attachments: [image001.png](#)
[image003.png](#)
[image005.png](#)
[image002.png](#)
[Epitome Development Taylor TPDES 11-07-2022.pdf](#)

Good morning Sonia,

See attached copy of the letter with attachments that is being sent today. I have removed all reference to Outfall 002 with these resubmitted items. The only map that needed to be updated was the USGS Map and the full sized map is included in the mailed response. The other exhibits that are not included with this correspondence but were with the initial submittal did not require any revision.

Please let me know if you have any further questions. I appreciate all the help!

Thank you!



Jonathan Nguyen

Permitting Specialist

Email: jnguyen@quiddity.com

T: [512.685.5156](tel:512.685.5156)

From: Firoj Vahora <firoj.vahora@tceq.texas.gov>
Sent: Thursday, November 3, 2022 2:01 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Sonia Bhuiya <sonia.bhuiya@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Firoj Vahora <firoj.vahora@tceq.texas.gov>; Abesha Michael <Abesha.Michael@tceq.texas.gov>; Jenna Lueg <Jenna.Lueg@tceq.texas.gov>; Josi Robertson <Josi.Robertson@tceq.texas.gov>
Subject: RE: WQ0016226001

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Thanks Jonathan.

Yes, please send us a written correspondence with this understanding that after reviewing the DO Modeling recommendations, the permittee has decided to keep only one Outfall in the permit , i.e., Outfall 001.

If any reference to any map in the record, please revise the map and/or landowner list. I am keeping Erwin Madrid, Team Leader, and Abesha Michael, Admin Reviewer, Application Review & Processing Team in the loop. Please work with them to update any information for their Admin review, i.e.,

EPI_000131

landowner list and map for only Outfall 001.

Please let me know, if you have any additional questions in this regard.

Thanks,

Firoj Vahora, Team Leader

Municipal Permits Team (MC 148)

Wastewater Permitting Section

Water Quality Division, TCEQ

email: firoj.vahora@tceq.texas.gov

phone: 512-239-4540

Please consider whether it is necessary to print this e-mail

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Sonia: Once you receive the written request from Jonathan, please make sure to work with Jenna and Josi to revise their interoffice memo to clarify the record as only one Outfall for this permit.

Thanks, Firoj

From: Jonathan Nguyen <jnguyen@quiddity.com>

Sent: Thursday, November 3, 2022 12:37 PM

To: Firoj Vahora <firoj.vahora@tceq.texas.gov>

Cc: Sonia Bhuiya <sonia.bhuiya@tceq.texas.gov>

Subject: RE: WQ0016226001

Good afternoon Firoj and Sonia,

I was very surprised reading that modeling memo. With that, we see no reason to include Outfall 002 in this permit. If there is any application revisions needed from me, please let me know.

Thank you!



Jonathan Nguyen

Permitting Specialist

Email: jnguyen@quiddity.com

T: [512.685.5156](tel:512.685.5156)

From: Firoj Vahora <firoj.vahora@tceq.texas.gov>
Sent: Wednesday, November 2, 2022 2:51 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Sonia Bhuiya <sonia.bhuiya@tceq.texas.gov>; Firoj Vahora <firoj.vahora@tceq.texas.gov>
Subject: FW: WQ0016226001
Importance: High

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Hello Jonathan:

Please take a look at the attached memos. Do you think, there is a need for Outfall 002?

Please let us know.

Thanks,

Firoj Vahora, Team Leader

Municipal Permits Team (MC 148)

Wastewater Permitting Section

Water Quality Division, TCEQ

email: firoj.vahora@tceq.texas.gov

phone: 512-239-4540

Please consider whether it is necessary to print this e-mail

How is our Customer Service? Fill out our online customer satisfactory survey at
www.tceq.texas.gov/customersurvey

From: Sonia Bhuiya <sonia.bhuiya@tceq.texas.gov>

Sent: Wednesday, November 2, 2022 1:06 PM

To: Firoj Vahora <firoj.vahora@tceq.texas.gov>

Subject: WQ0016226001

Hi Firoj,

Attached are the memo.

Sonia

This e-mail and any attachments are intended only for the named recipient(s) and may contain information that is legally privileged, confidential, or exempt from disclosure under applicable law. If you have received this message in error, or are not the named recipient(s), you may not retain copy or use this e-mail or any attachment for any purpose or disclose all or any part of the contents to any other person. Any such dissemination, distribution or copying of this e-mail or its attachments is strictly prohibited. Please immediately notify the sender and permanently delete this e-mail and any attachment from your computer and/or electronic devices. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Quiddity Engineering, Inc.

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3100 Alvin Devane Blvd, Suite 150
Austin, Texas 78741
Tel: 512.441.9493
www.quiddity.com

November 7, 2022

Texas Commission on Environmental Quality
Water Quality Division
Municipal Permits Team (MC 148)
Attn: Sonia Bhuiya
12100 Park 35 Circle
Austin, Texas 78753

Re: Epitome Development LLC
TPDES Permit Application – WQ0016226001

After reviewing the TCEQ Water Quality Assessment Memos, we have decided to not include Outfall 002 in the permit and just discharge through Outfall 001. Enclosed are 1 original and 2 copies of the following application items. These have been revised to remove any reference of Outfall 002.

- Administrative Report 1.0, Section 10
- Technical Report 1.0, Section 2
- Full sized USGS Map

Please contact me (jnguyen@quiddity.com) should you have any questions or need any additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Nguyen".

Jonathan Nguyen

HJN

<K:\17232\17232-0005-01 Taylor 131 - TPDES\2 Design Phase\001 - TPDES Permit\02 - Negotiate Permit\3 - Technical Review\Remove Outfall 002 Correspondence\COVLTR.docx>

Enclosures

EPI_000135

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): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

A. 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:

0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973, in Williamson County, Texas 76574

B. 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:

To an unnamed tributary, then to Battleground Creek, thence to Soil Conservation Service Site 31 Reservoir, then to Battleground Creek, then to Brushy Creek in Segment No. 1244 of the Brazos River Basin.

City nearest the outfall(s): Taylor

County in which the outfalls(s) is/are located: Williamson

Outfall Latitude: 30.523506

Longitude: -97.442402

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.

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:

See Attachment H.

Port or pipe diameter at the discharge point, in inches: to be determined

B. Treatment Units

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

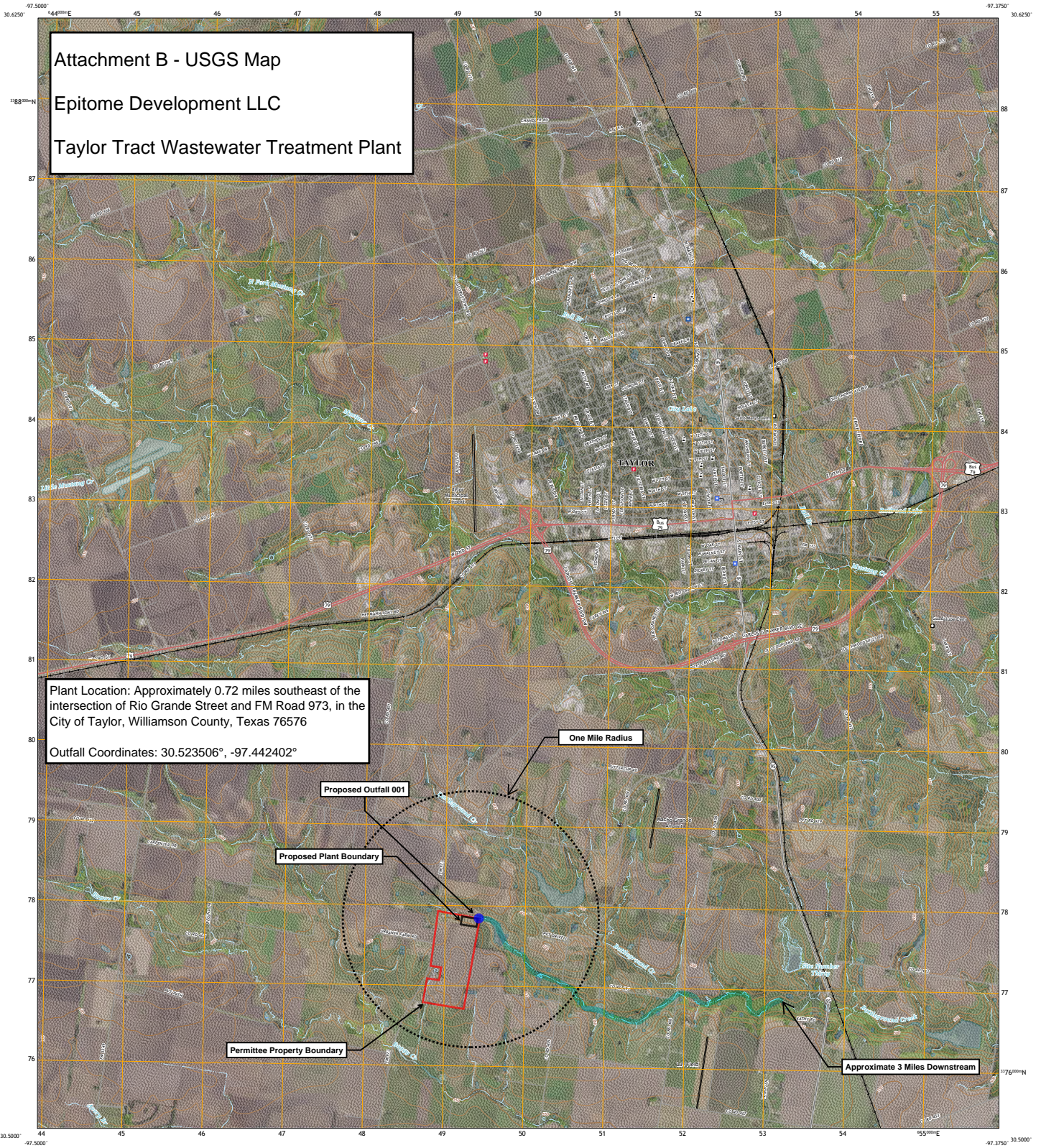
Table 1.0(1) - Treatment Units

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

C. Process flow diagrams

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

Attachment: Attachment I



Attachment B - USGS Map
Epitome Development LLC
Taylor Tract Wastewater Treatment Plant

Plant Location: Approximately 0.72 miles southeast of the intersection of Rio Grande Street and FM Road 973, in the City of Taylor, Williamson County, Texas 76576
Outfall Coordinates: 30.523506°, -97.442402°

One Mile Radius

Proposed Outfall 001

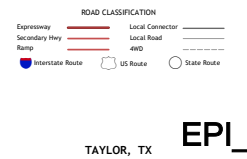
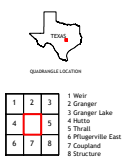
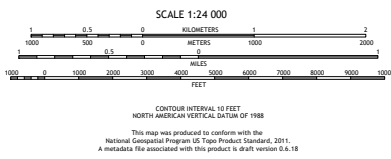
Proposed Plant Boundary

Permitte Property Boundary

Approximate 3 Miles Downstream

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1,000-meter grid (Universal Transverse Mercator, Zone 14R)
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery	U.S. Census Bureau	2015
Base	NAD	September 2016 - November 2016
Hydrography	National Hydrography Dataset	2002, 2018
Contours	National Elevation Dataset	2002, 2004
Boundaries	Multiple sources	see metadata file 2016, 2017
Wetlands	FWS National Wetlands Inventory	1982



EPI_000138

TAYLOR, TX
2019

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