R040062 LP

Indigo Water Resource Recovery Facility

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR NEW

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

June 2021

PERKINS ENGINEERING CONSULTANTS, INC.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: **R040062, LP**

PERMIT NUMBER: Click here to enter text

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

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

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 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☒	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: Click here to enter text

Check/Money Order Amount: Click here to enter text

Name Printed on Check: Click here to enter text

EPAY Voucher Number: **515528, 515529**

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES ☐ New TLAP

☐ Major Amendment *with* Renewal ☐ Minor Amendment *with* Renewal

☐ Major Amendment *without* Renewal ☐ Minor Amendment *without* Renewal

☐ Renewal without changes ☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: Click here to enter text.

For existing permits:

Permit Number: WQ00**N/A**

EPA I.D. (TPDES only): TX**N/A**

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	515528
Trace Number:	582EA000435993
Date:	06/07/2021 04:07 PM
Payment Method:	CC - Authorization 000007126C
Voucher Amount:	$800.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor:	TODD TEN HAVE
Actor Email:	accounting@scipioventures.com
IP:	104.55.68.81

Payment Contact Information

Name:	LOUIS MERTZ
Company:	R040062 LP
Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056
Phone:	832-844-5114

Site Information

Site Name:	INDIGO WATER RESOURCE RECOVERY FACILITY
Site Location:	WEST END OF MADISON DRIVE APPROXIMATELY 5 500 FEET WEST OF THE TX 130 TOLL ROAD

Customer Information

Customer Name:	R040062 LP
Customer Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056

Close

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	515529
Trace Number:	582EA000435993
Date:	06/07/2021 04:07 PM
Payment Method:	CC - Authorization 000007126C
Voucher Amount:	$50.00
Fee Type:	30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor:	TODD TEN HAVE
Actor Email:	accounting@scipioventures.com
IP:	104.55.68.81

Payment Contact Information

Name:	LOUIS MERTZ
Company:	R040062 LP
Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056
Phone:	832-844-5114

Close

Expiration Date: **N/A**

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

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

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

R040062, LP

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

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

CN: Click here to enter text

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: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: **Manager**

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: Click here to enter text

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): Click here to enter text

First and Last Name: Click here to enter text

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Click here to enter text

Provide a brief description of the need for a co-permittee: Click here to enter text.

C. Core Data Form

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

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: **Janet Sims**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Sr. Project Manager**

Organization Name: **Perkins Engineering Consultants, Inc.**

Mailing Address: **13740 N. Highway 183, Unit L-6**

City, State, Zip Code: **Austin, TX 78750**

Phone No.: **(512) 735-1001** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **jsims@perkinsconsultants.com**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Manager**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **lmertz@scipioventures.com**

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: **Todd Ten Have**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Controller**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 844-5114** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **ttenhave@scipioventures.com**

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

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.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: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text.

E-mail: **edragon@scipioventures.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: **Georgetown Public Library**

Location within the building: **Reference Desk**

Physical Address of Building: **402 W. 8th Street**

City: **Georgetown** County: **Williamson**

Contact Name: **Ann Evans**

Phone No.: **(512) 930-3551** Ext.: Click here to enter text.

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. **RNN/A**

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):

Indigo Water Resource Recovery Facility

C. Owner of treatment facility: **R040062, LP**

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** E-mail Address: **lmertz@scipioventures.com**

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: N/A

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Click here to enter text

Mailing Address: Click here to enter text

City, State, Zip Code: Click here to enter text

Phone No.: Click here to enter text E-mail Address: Click here to enter text

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): N/A

Prefix (Mr., Ms., Miss): Click here to enter text.

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, Zip Code: Click here to enter text.

Phone No.: Click here to enter text. E-mail Address: Click here to enter text.

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 **New Permit**

If **no**, **or a new permit application**, please give an accurate description:

The water resource recovery facility is located off the west end of Madison Drive approximately 5,500 feet west of the TX 130 Toll Road overpass to CR 105 in Williamson County.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No **New Permit**

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:

The discharge is to an unnamed tributary of Mankins Branch, thence to Mankins Branch, thence to San Gabriel/North Fork San Gabriel in Segment No. 1248 of the Brazos River Basin.

City nearest the outfall(s): **Georgetown**

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

Outfall Latitude: **30.60811** Longitude: **-97.61960**

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.

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.

N/A

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No N/A

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Click here to enter text.

B. City nearest the disposal site: Click here to enter text.

C. County in which the disposal site is located: Click here to enter text.

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

E. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

Click here to enter text.

F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Click here to enter text.

Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit

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

Click here to enter text.

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:

Click here to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click here to enter text. Amount past due: Click here to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click here to enter text. Amount past due: Click here to enter text.

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 **See Attachment B.**
- 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: Click here to enter text.

A. Core Data Form
B. USGS Map
C. Affected Landowners Information
D. Original Photographs
E. Buffer Zone Map
F. Treatment Units
G. Process Flow Diagram
H. Site Drawing
I. Justification for Permit
J. Nearby Collection Systems and Analysis of Expenditures
K. Design Calculations and Plant Features
L. Wind Rose
M. Sewage Sludge Solids Management Plan

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: [redacted]

Applicant: **R040062, LP**

Certification:

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

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

Signatory name (typed or printed): **Louis Mertz**

Signatory title: **Manager**

Signature: Louis M (Use blue ink) Date: 6/2/2021

Subscribed and Sworn to before me by the said Louis Mertz

on this 2nd day of June, 2021.

My commission expires on the 26th day of August, 2024.

Todd Ten Have

Notary Public

TODD TEN HAVE
Notary Public, State of Texas
Comm. Expires 08-26-2024
Notary ID 132643914

[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: **See Attachment C.**

- ☒ 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 County Appraisal District**

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

☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Click here to enter text.

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided. **See Attachment D.**

- ☒ 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. **See Attachment E.**

- 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

Supplemental Permit Information Form

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: **R040062, LP**

Permit No. WQ00 **N/A** EPA ID No. TX **N/A**

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

The facility will be located off the west end of Madison Drive approximately 5,500 feet west of the TX 130 Toll Road overpass to CR 105 near Georgetown, Texas in Williamson County.

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: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Manager**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **lmertz@scipioventures.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.

The property is not publicly owned.

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.

The discharge is to an unnamed tributary of Mankins Branch, thence to Mankins Branch, thence to San Gabriel/North Fork San Gabriel in Segment No. 1248 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). **See SPIF-1 and SPIF-2.**

Provide original photographs of any structures 50 years or older on the property. **None**

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 **Area with agricultural vegetation will be developed. No wetland area will be disturbed.**

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

The estimated depth of excavation is 15 to 20 feet for an 8-foot diameter lift station wet well. Treatment plant facilities will be above-grade. Some subgrade compaction may be needed following receipt of geotechnical report, but excavation will generally be limited to the lift station, piping connecting treatment units, shallow buried electrical duct banks, and the outfall pipe. There are no known caves.

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

The land is currently a cleared pasture area used for agricultural purposes.

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:

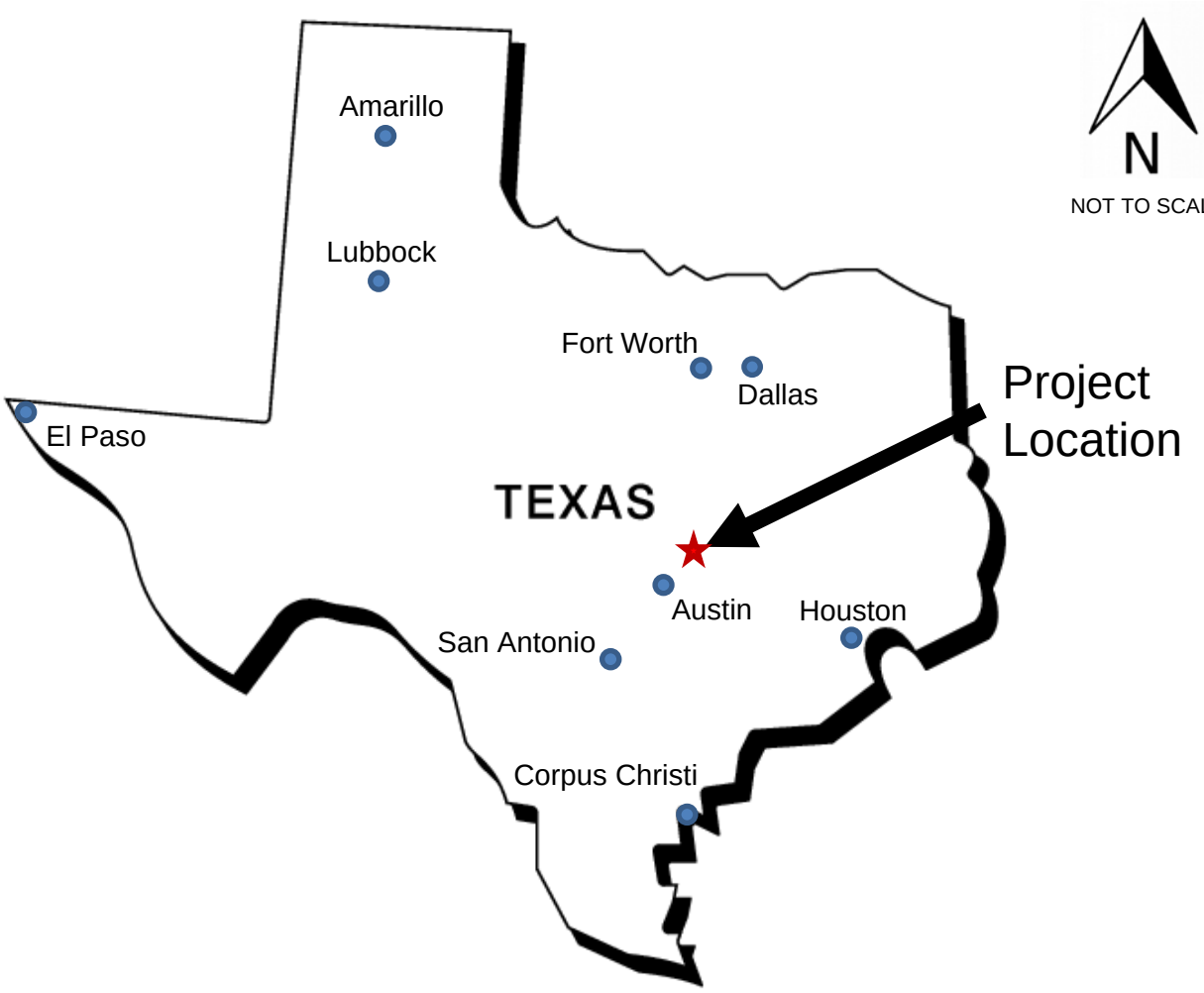
There are no buildings or structures on the property.

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

The property has been used for agricultural purposes, and there are not buildings or structures on the property.

Supplemental Permit Information Form

- **SPIF-1 General Location Map**
- **SPIF-2 USGS Map**



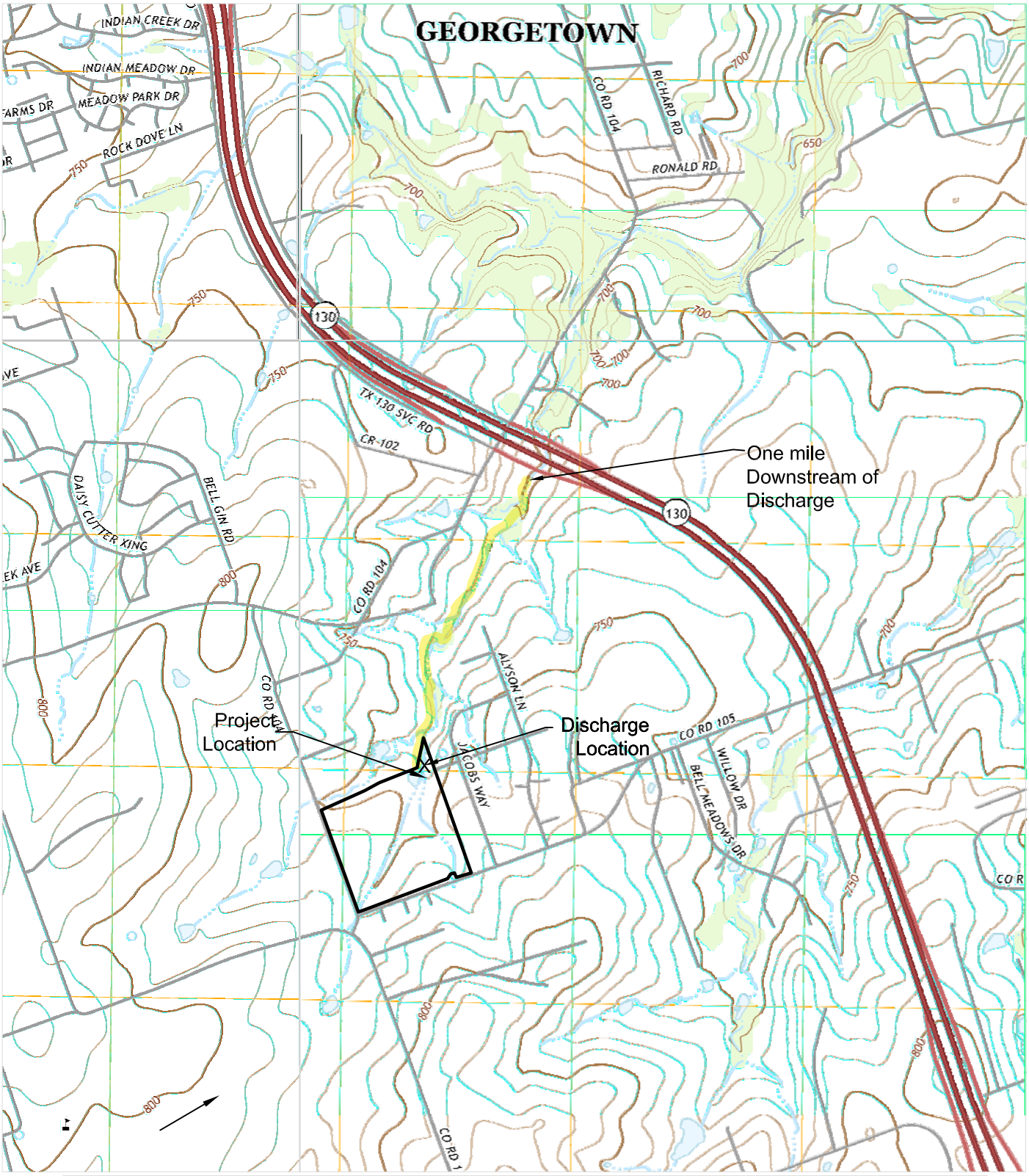
SPIF-1
R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
GENERAL LOCATION MAP

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1

MILE
SCALE 1:24000



SPIF- 2
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

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): **0.075**

2-Hr Peak Flow (MGD): **0.300**

Estimated construction start date: **September 2022**

Estimated waste disposal start date: **July 2023**

B. Interim II Phase

Design Flow (MGD): **N/A**

2-Hr Peak Flow (MGD): Click here to enter text

Estimated construction start date: Click here to enter text

Estimated waste disposal start date: Click here to enter text

C. Final Phase

Design Flow (MGD): **0.200**

2-Hr Peak Flow (MGD): **0.800**

Estimated construction start date: **June 2024**

Estimated waste disposal start date: **March 2025**

D. Current operating phase: N/A

Provide the startup date of the facility: **N/A**

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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

The proposed Indigo Water Resource Recovery Facility is an activated sludge with nitrification process plant operated in the extended aeration mode. The treatment processes for the Interim phase are as follows: Raw wastewater will be pumped into an aeration basin for secondary biological treatment. The secondary treated wastewater will flow into a clarifier for clarification. Then the clarified water will flow into a chlorine contact chamber for disinfection prior to discharge. Activated sludge will be returned from the clarifier to the aeration basin(s) or wasted to an aerated sludge holding tank. The treatment processes will be the same for the Final phases.

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

B. Treatment Units

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

Table 1.0(1) – Treatment Units

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

C. Process flow diagrams

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

Attachment: **G**

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: **H**

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

The area served will be the proposed development and adjacent property outside of the City of Georgetown.

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.

Click here to enter text

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.

Click here to enter text.

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 ☐ **N/A**

If yes, provide the date(s) of approval for each phase: Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 ☐ **N/A**

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

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 Click here to enter text or TXRNE Click here to enter text

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:

Click here to enter text

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.

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

N/A

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.

N/A

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). **W*ater 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					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml)					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/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: **Inframark LLC**

Facility Operator's License Classification and Level: **WWOL**

Facility Operator's License Number: **OC0000232**

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. **See Attachment I.**

☐ Other:

B. Sludge disposal site

Disposal site name: **Austin Wastewater Processing Facility**

TCEQ permit or registration number: **MSW 2384**

County where disposal site is located: **Travis**

C. Sludge transportation method

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

Name of the hauler: **WasteWater Transportation Services**

Hauler registration number: **24343**

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: Click here to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.
- Federal Emergency Management Map:

  Attachment: Click here to enter text.
- Site map:

  Attachment: Click here to enter text.

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: Click here to enter text.

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:

Click here to enter text.

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: Click here to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click here to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click here to enter text.

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click here to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click here to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click here to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

Yes ☐ No ☐

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

Click here to enter text.

D. Site development plan

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

lagoon(s):

Click here to enter text

Attach the following documents to the application.

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

  Attachment: Click here to enter text

- Copy of the closure plan

  Attachment: Click here to enter text

- Copy of deed recordation for the site

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here to enter text

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: Click here to enter text

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:

N/A

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:

N/A

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: **N/A**

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: **Louis Mertz**

Title: **Manager**

Signature: _____

Date: 6/2/2021

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 J.

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: **N/A**

If yes, attach correspondence from the city.

Attachment: **N/A**

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: **N/A**

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: **N/A**

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: **K.1**

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

Attachment: **K.2**

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: **K.3**

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): **N/A**

Average Influent Organic Strength or BOD_5 Concentration in mg/l: **N/A**

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

Provide the source of the average organic strength or BOD_5 concentration.

N/A

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) Interim I/Final	Influent BOD_5 Concentration (mg/l)
Municipality		
Subdivision	**0.075/0.2**	**300**
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park,		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	**0.075/0.2**	
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: Click here to enter text.

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** minutes detention time at peak flow

Dechlorination process: **N/A**

☐ Ultraviolet Light: Click here to enter text. seconds contact time at peak flow

☐ Other: Click here to enter text.

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: **L**

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.

Click here to enter text.

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

The current FEMA Flood Insurance Rate Map, panel 48491C0505F, with an effective date of 12/19/2019.

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: Click here to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click here to enter text.

B. Wind rose

Attach a wind rose. **Attachment**: **M**

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: N/A

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: N/A

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

Attach a solids management plan to the application.

Attachment: N

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: **N/A**

Distance and direction to the intake: **N/A**

Attach a USGS map that identifies the location of the intake.

Attachment: **N/A**

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: Click here to enter text.

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).

Click here to enter text.

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).

Click here to enter text

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: Click here to enter text

Average depth of the entire water body, in feet: Click here to enter text

Average depth of water body within a 500-foot radius of discharge point, in feet: Click here to enter text

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

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: **Aerial photograph**

C. Downstream perennial confluences

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

Mankins Branch

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.

N/A

E. Normal dry weather characteristics

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

The channel for the proposed outfall location was covered with thick grass vegetation. No water observed.

Date and time of observation: **5/13/2021 @ 12:30 pm**

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.

☐ Oil field activities
☐ Urban runoff
☐ Upstream discharges
☒ Agricultural runoff
☐ Septic tanks
☐ Other(s), specify Click here to enter text

B. Waterbody uses

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

☒ Livestock watering
☐ Contact recreation
☐ Irrigation withdrawal
☒ Non-contact recreation
☐ Fishing
☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☐ Other(s), specify Click here to enter text.

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

R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

ATTACHMENT	REFERENCE
A. Core Data Form	Admin Report 1.0, Section 3.C
B. USGS Map	Admin Report 1.0, Section 13
C. Affected Landowner Information	Admin Report 1.1, Section 1
D. Original Photographs	Admin Report 1.1, Section 2
E. Buffer Zone Map	Admin Report 1.1, Section 3
F. Treatment Units	Tech Report 1.0, Section 2.B
G. Process Flow Diagram	Tech Report 1.0, Section 2.C
H. Site Drawing	Tech Report 1.0, Section 3
I. Sludge Acceptance Agreement	Tech Report 1.0, Section 9.A
J. Justification for Permit	Tech Report 1.1, Section 1.A
K. Nearby Collection System and Analysis of Expenditures	Tech Report 1.1, Section 1.B.3
L. Design Calculation and Plant Features	Tech Report 1.1, Section 4
M. Windrose	Tech Report 1.1, Section 5.B
N. Sewage Sludge Solids Management Plan	Tech Report 1.1, Section 7

Attachment A

Core Data Form

Admin Report 1.0, Section 3.C

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.*)

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

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

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)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

R040062 LP

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
802898395	32065843370		

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ Yes ☐ No

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address: 5599 San Felipe St., Suite 565

City	Houston	State	TX	ZIP	77056	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(832) 485-1907		( ) -

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)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ 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.)*

Indigo Water Resource Recovery Facility

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	The facility is located off the west end of Madison Drive approximately 5,500 feet west of the TX 130 Toll Road overpass to CR 105.

26. Nearest City	**State**	**Nearest ZIP Code**
Georgetown	TX	78626

27. Latitude (N) In Decimal:	30.60798	**28. Longitude (W) In Decimal:**	97.61900

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	36	28.73	-97	37	8.41

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)
6552		237210	

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

Real estate developer

34. Mailing Address:	5599 San Felipe St, Suite 565						
	City	Houston	**State**	TX	**ZIP**	77027	**ZIP + 4**

35. E-Mail Address:	lmertz@scipioventures.com

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(832) 485-1907		( ) -

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

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

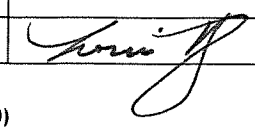
SECTION IV: Preparer Information

40. Name:	Janet Sims	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 734-1001		( ) -	jsims@perkinsconsultants.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:	R040062 LP	**Job Title:**	Manager
Name *(In Print):*	Louis Mertz	**Phone:**	(832) 485- 1907
Signature:		**Date:**	6/2/2021

Attachment B

USGS Map

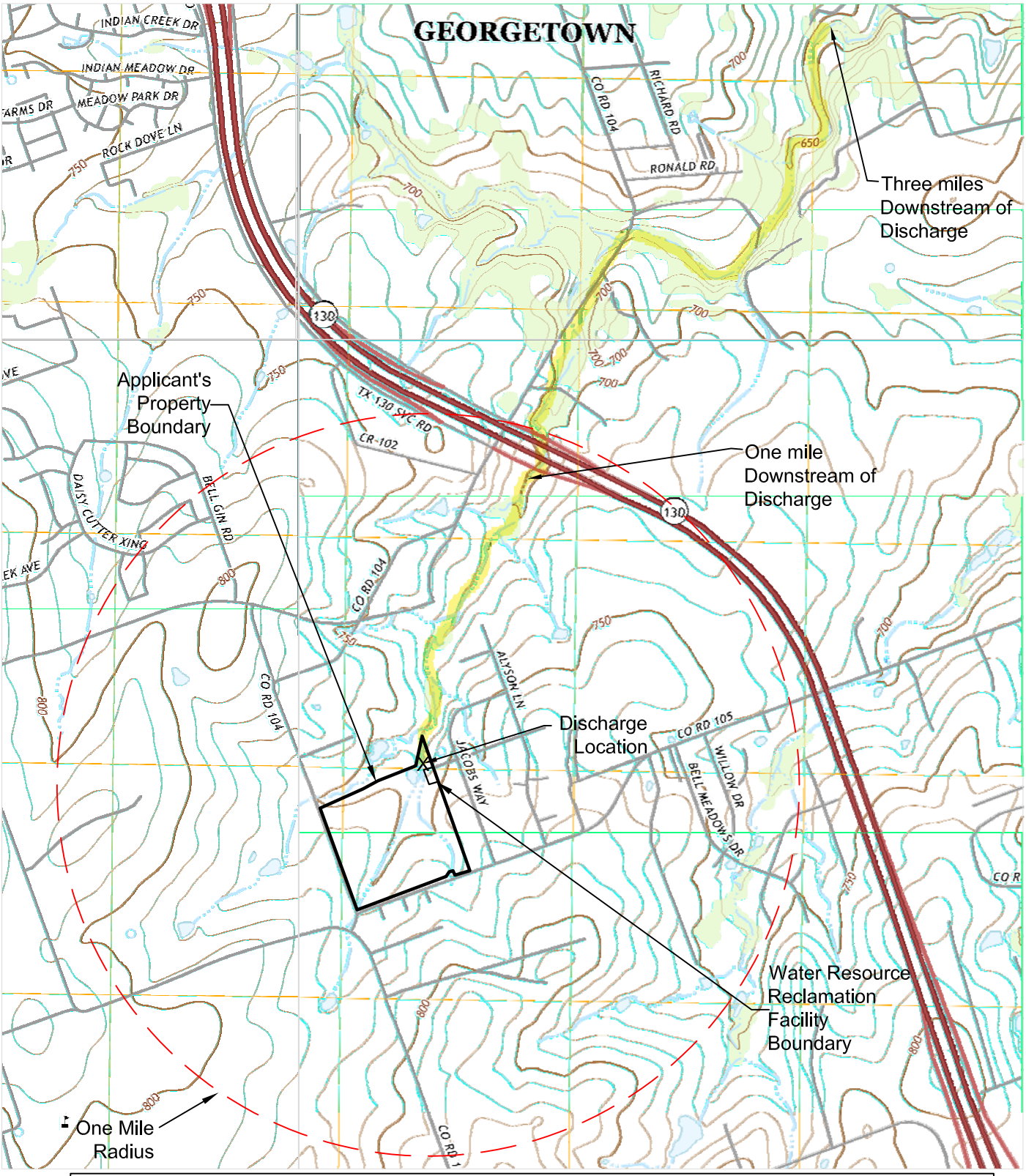
Admin Report 1.0, Section 13

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1

MILE
SCALE 1:24000



ATTACHMENT B
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

Attachment C

Affected Landowner Information

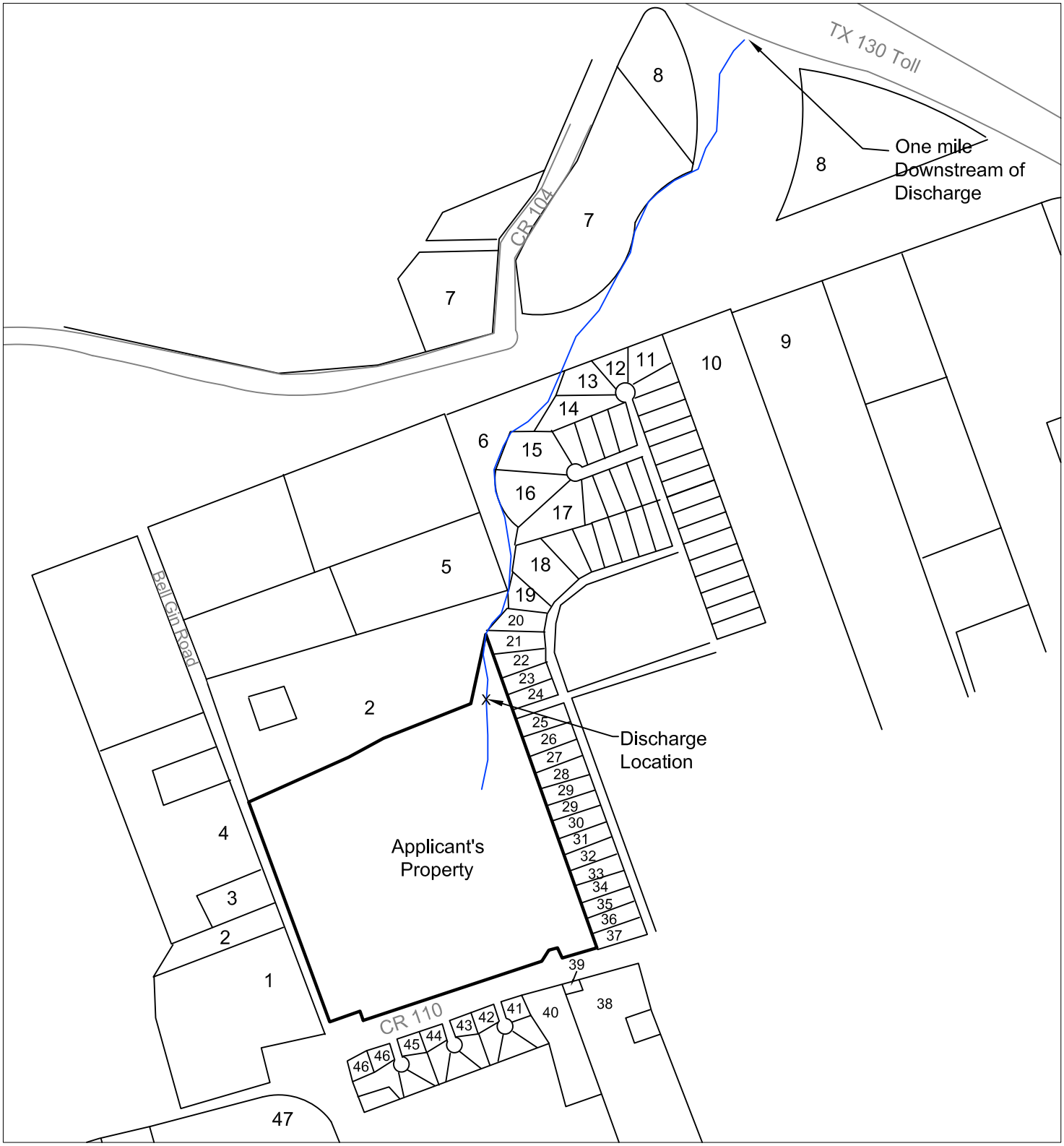
Tech Report 1.1, Section 1

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1000 ft.

SCALE
1 inch = 1,000 feet



ATTACHMENT C.1
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
AFFECTED LANDOWNER MAP

ATTACHMENT C.2
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
AFFECTED LANDOWNER LIST

1 MYRA L VALENTA
3801 COUNTY ROAD 110
GEORGETOWN, TX 78626

2 JIMMY C WEBB
2929 BELL GIN RD
GEORGETOWN, TX 78626-7428

3 KENT E. WEBB
3100 BELL GIN RD
GEORGETOWN, TX 78626-7402

4 JIM & VIRGINIA WEBB
2929 BELL GIN RD
GEORGETOWN, TX 78626-7428

5 EQUITY TRUST DBA STERLING TRUST
408 RIVER CHASE BLVD
GEORGETOWN, TX 78628

6 JOSHUA L RICHARDS
PO BOX 1366
TAYLOR, TX 76574-6366

7 EMMA L LAWHON FAMILY LAND PARTNERSHIP
2200 PATRIOT WAY
GEORGETOWN, TX 78626-7421

8 RIVER CITY PARTNERS LTD
501 E KOENIG LN
AUSTIN, TX 7875

9 RICHARD A & KAREN T SLIVA
717 COUNTY ROAD 105
HUTTO, TX 78634-3013

10 LARRY J & RHONDA G REID
707 COUNTY ROAD 105
HUTTO, TX 78634-3013

11 LORIS TRAN & TRUNG NGUYEN
2801 W 45TH ST
AUSTIN, TX 78731

12 UNKNOWN

13 DOMINGO GRANADOS
337 ALYSON LN
HUTTO, TX 78634-3051

14 KRISTI SWANN
6106 GLEN MEADOW DR
AUSTIN, TX 78745-4143

15 TALON R RICHARDS
PO BOX 1366
TAYLOR, TX 76574

16 CARLOS E CASAS & ALBERTO R DE CASA
520 OLIVIA CT
HUTTO, TX 78634-3064

17 DONALD RAY ROBBINS
P.O. BOX 1088
GEORGETOWN, TX 78627-1088

18 ALEX CIFUENTES
223 JACOBS WAY
HUTTO, TX 78634

19 RADY RICHARD Z & AGATHA O CO TRS RADY FAMILY TRUST
13276 RESEARCH BLVD #105
AUSTIN, TX 78750-3225

20 HILARIO & MARIA A VELAZQUEZ
215 JACOBS WAY
HUTTO, TX 78634-3045

21 SHAWN & ENA BICHSEL
211 JACOBS WAY
HUTTO, TX 78634

22 JOSE & ESMERALDA ARREOLA
209 JACOBS WAY
HUTTO, TX 78634

23 LORENZO & MINERVA VELAZQUEZ RENOJ
205 JACOBS WAY
HUTTO, TX 78634

24 VENANCIO SUAREZ FLORES
300 ALYSON LN
HUTTO, TX 78634

25 PAULINA DE LUNA
153 JACOBS WAY
HUTTO, TX 78634

26 MISAEL HERNANDEZ & TOMASA CHAVEZ & RENE VEGA ALVAREZ & CECILIA HERNANDEZ CHAVEZ
149 JACOBS WAY
HUTTO, TX 78634

27 VICENTE & ANAGELICA T MACIAS
145 JACOBS WAY
HUTTO, TX 78634

28 QUAN P VO
19841 COCHRANE WAY
GAITHERSBURG, MD 20879

29 NATHAN MENDEZ & TRAM VO
137 JACOBS WAY
HUTTO, TX 78634-3021

30 JOSE FELIX & JOSE MEJIA HERNANDEZ
129 JACOBS WAY
HUTTO, TX 78634-3019

31 JOHN PIONTKOWSKI
125 JACOBS WAY
HUTTO, TX 78634-3019

32 LENARD C & GARNETTA D SMITH
121 JACOBS WAY
HUTTO, TX 78634-3019

33 WILEY R HENNIG
117 JACOBS WAY
HUTTO, TX 78634-3019

34 REX NOWLIN
113 JACOBS WAY
HUTTO, TX 78634

35 ESTHER SALAZAR
109 JACOBS WAY
HUTTO, TX 78634

36 MARILYN A SOTER (TOD) TO CLAUDIA NEWMAN
4125 EAST PIKE
ZANESVILLE, OH 43701-8426

37 ANDREW L & MAEDELLE T
101 JACOBS WAY
HUTTO, TX 78634

38 HOMER R THOMAS
350 COUNTY ROAD 105
GEORGETOWN, TX 78626-7426

39 JACK & DIANNE MOORE
% HOMER THOMAS 350 COUNTY ROAD 105
GEORGETOWN, TX 78626-7426

40 ARCANGELS INVESTMENTS LLC
501 LONE STAR DR
CEDAR PARK, TX 78613

41 GREGORY J & MARY D FREDERICK
101 BRIAN CIR
GEORGETOWN, TX 78626-9607

42 THOMAS BROWNFIELD
102 BRIAN CIR
GEORGETOWN, TX 78626-9607

43 ELIZABETH RAMSEY DRISCOLL
513 MALLORY CT
EL PASO, TX 79912-4228

44 DANIEL WISE
102 JENNIFER CIR
GEORGETOWN, TX 78626-9612

45 DONNA L MOORE
101 MELISSA CIR
GEORGETOWN, TX 78626-9606

46 ARCANGELS INVESTMENTS LLC
501 LONE STAR DR
CEDAR PARK, TX 78613

47 BERNARD S ANDERSON TR OF BERNARD &
GLADYS ANDERSON TRUST
16233 CAMERON RD
PFLUGERVILLE, TX 78660

Attachment D

Original Photographs

Admin Report 1.1, Section 2

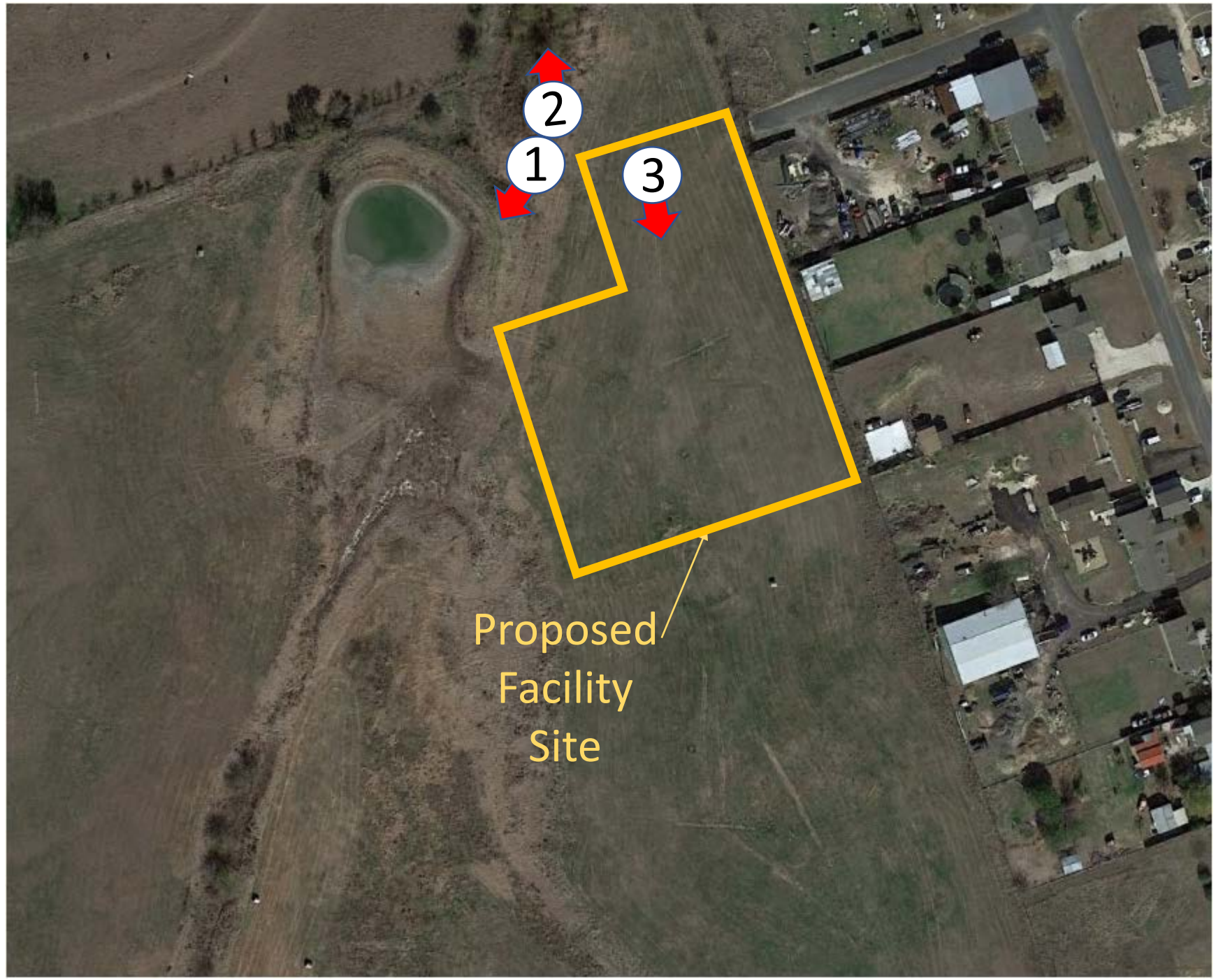
Photograph 1. – At outfall looking south, upstream.

Photograph 2. – At outfall looking north, downstream.

ATTACHMENT D.1
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPHS

Photograph 3. – Proposed site of facility, looking south.

ATTACHMENT D.2
R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPHS



N

NOT TO SCALE

2 Photograph Location

ATTACHMENT D.3
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPH LOCATION MAP

Attachment E

Buffer Zone Map

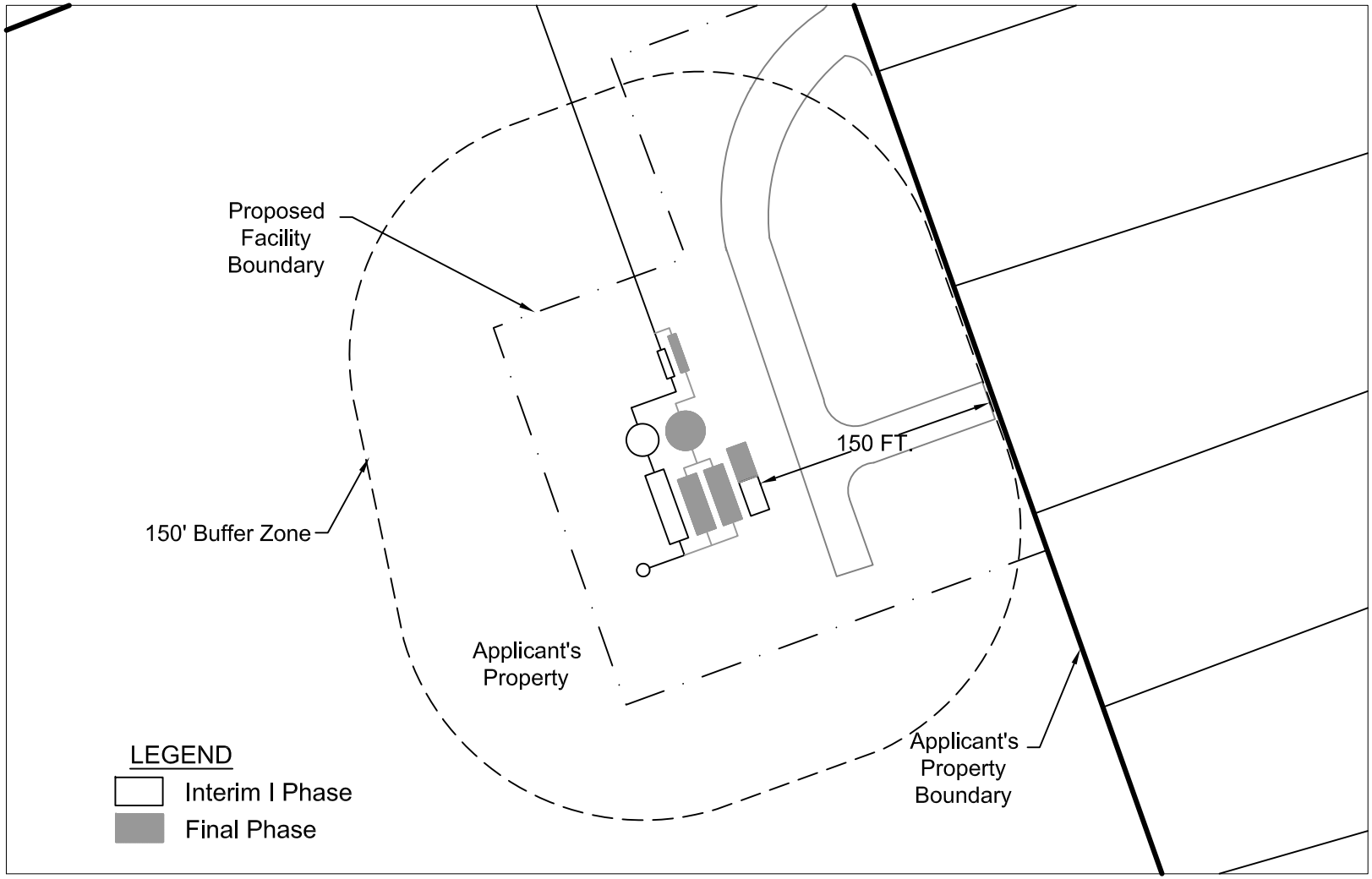
Admin Report 1.1, Section 3

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 100 ft.

SCALE
1 inch = 100 feet



ATTACHMENT E
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATIO N
BUFFER ZONE MAP

Attachment F

Treatment Units

Tech Report 1.0, Section 2.B

ATTACHMENT F
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
TREATMENT UNITS

Interim I Phase (0.075 MGD)

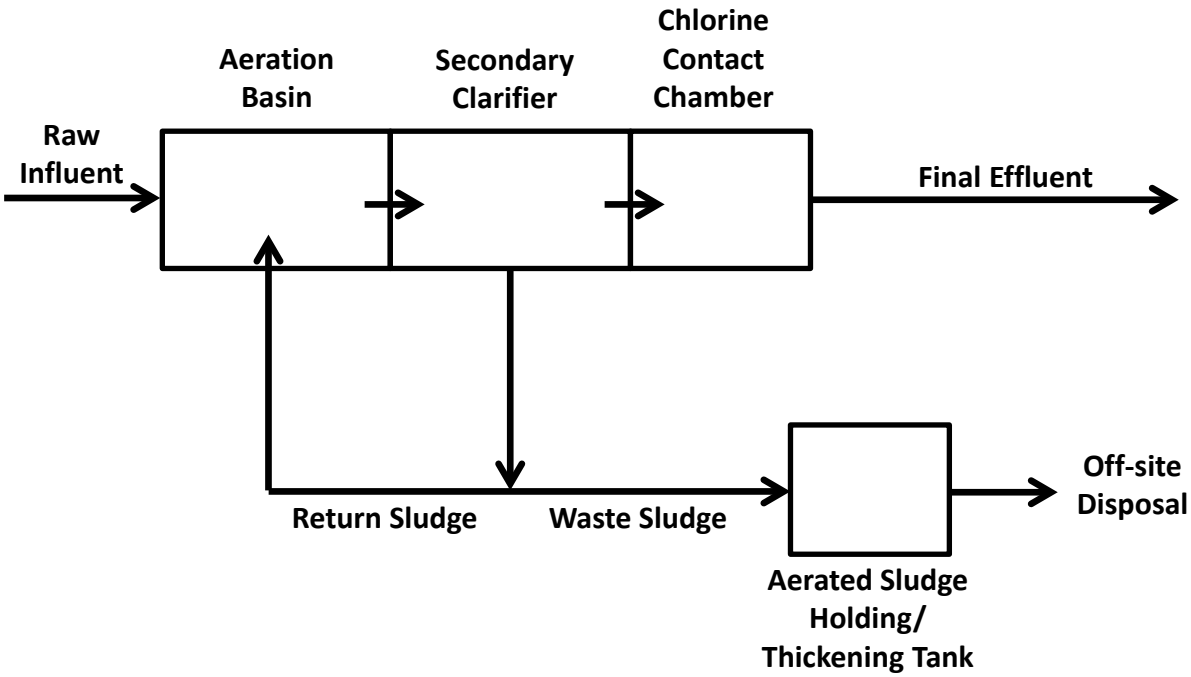
Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	1	45‘ x 12’ x 10.5’ SWD
Secondary Clarifier	1	20’ dia., 11’ SWD
Chlorine Basin	1	18‘ x 7’ x 5‘ SWD
Sludge Holding Tank	1	22.5’ x 12’ x 10.5’

Additions for Final Phase (0.200 MGD)

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	2	36‘ x 12’ x 10.5’ SWD
Secondary Clarifier	1	24’ dia., 11’ SWD
Chlorine Basin	1	24‘ x 8’ x 5‘ SWD
Sludge Holding Tank	1	22.5’ x 12’ x 10.5’

Attachment G
Process Flow Diagram
Tech Report 1.0, Section 2.C

ACTIVATED SLUDGE – EXTENDED AERATION PROCESS



ATTACHMENT G
R040062 LP- INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PROCESS FLOW DIAGRAM

Note: Interim I Phase Shown; Final Phase is expected to be Similar and Parallel to Interim Phase

Attachment H

Site Drawing

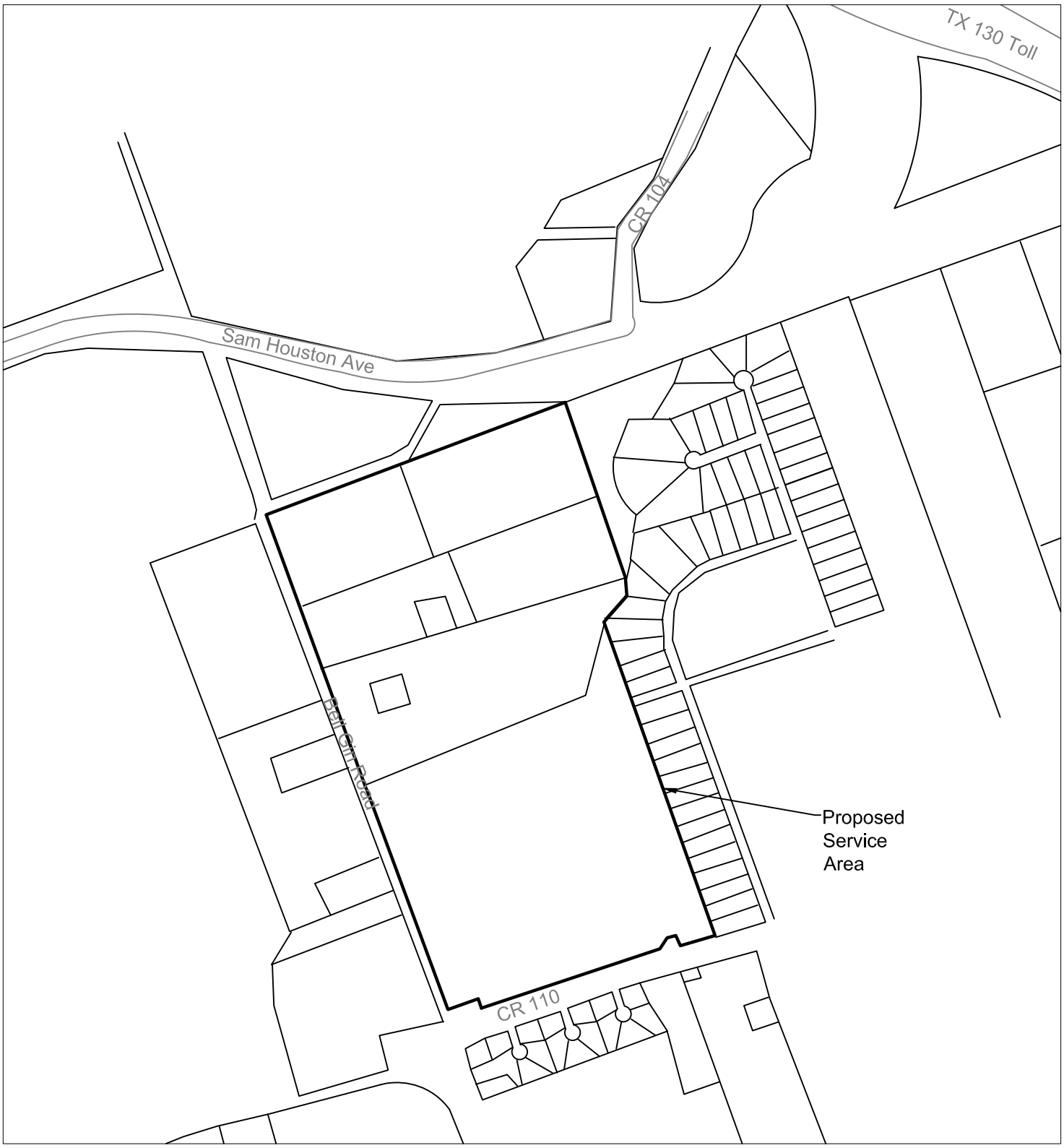
Tech Report 1.0, Section 3

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1000 ft.

SCALE
1 inch = 1,000 feet



ATTACHMENT H
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
SITE DRAWING

080

Attachment I

Sludge Acceptance Agreement

Tech Report 1.0, Section 9.A

Austin Wastewater Processing Facility
826 Linger Ln
Austin, Texas 78721
(512) 973-8484

Waste Stream Acceptance

05/18/2021

Wastewater Residuals Management, LLC, an affiliate of Wastewater Transport Services, LLC, owns and operates the Austin Wastewater Processing Facility. This facility has been permitted by the TCEQ and assigned permit number MSW 2384. The disposal facility is expected to be open for at least the next 5 years.

The facility has been permitted as a Centralized Waste Treatment Facility able to revice to receive the following categorical and non-categorical waste streams:

- Wastewater Treatment Plant Sludge
- Water Treatment Plant Sludge
- Leachate
- Septic
- Sanitary Sewer
- Storm Water
- Food Service Grease
- Car Wash Grit Trap
- Other Class II Non-Hazardous Liquid Waste

***Please note that analytical may be required before the waste stream will be accepted.

Wastewater Residuals Management, LLC agrees to accept any of the above waste streams from the below listed generator.

Generator: R040062 LP

Identifying Info: Indigo Water Resource Recovery Facility - Wastewater Treatment Plant Sludge

Cory R. Juby
Environmental Compliance

Wastewater Residuals Management reserves the right to discontinue acceptance of the below mentioned waste at any time.

Attachment J

Justification for Permit

Tech Report 1.1, Section 1.A

ATTACHMENT J
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
JUSTIFICATION FOR PERMIT

Central Texas is a fast-growing area. The proposed subdivision is in Williamson County TX, outside the corporate limits of the City of Georgetown (City). The site currently does not have wastewater treatment service. In addition, the proposed subdivision is not in the area identified as the "future service area" that was evaluated in the City's 2018 wastewater master plan.

The construction of approximately 600 manufactured housing units will be completed within the next five years. The first phase of construction is for approximately 300 units to be completed within two years after receipt of the requested permit for the proposed Indigo WRRF.

The proposed WWRF that will be constructed in two phases is designed to provide services to the residential population that is expected to average 3 persons per unit. The wastewater generated by the residents is expected to be approximately 75 to 100 gallons per person per day. Therefore, the first phase of the requested permit is for 75,000 gallons per day. A Final phase is requested for 200,000 gallons per day to provide wastewater service to the remaining residents in the proposed service area.

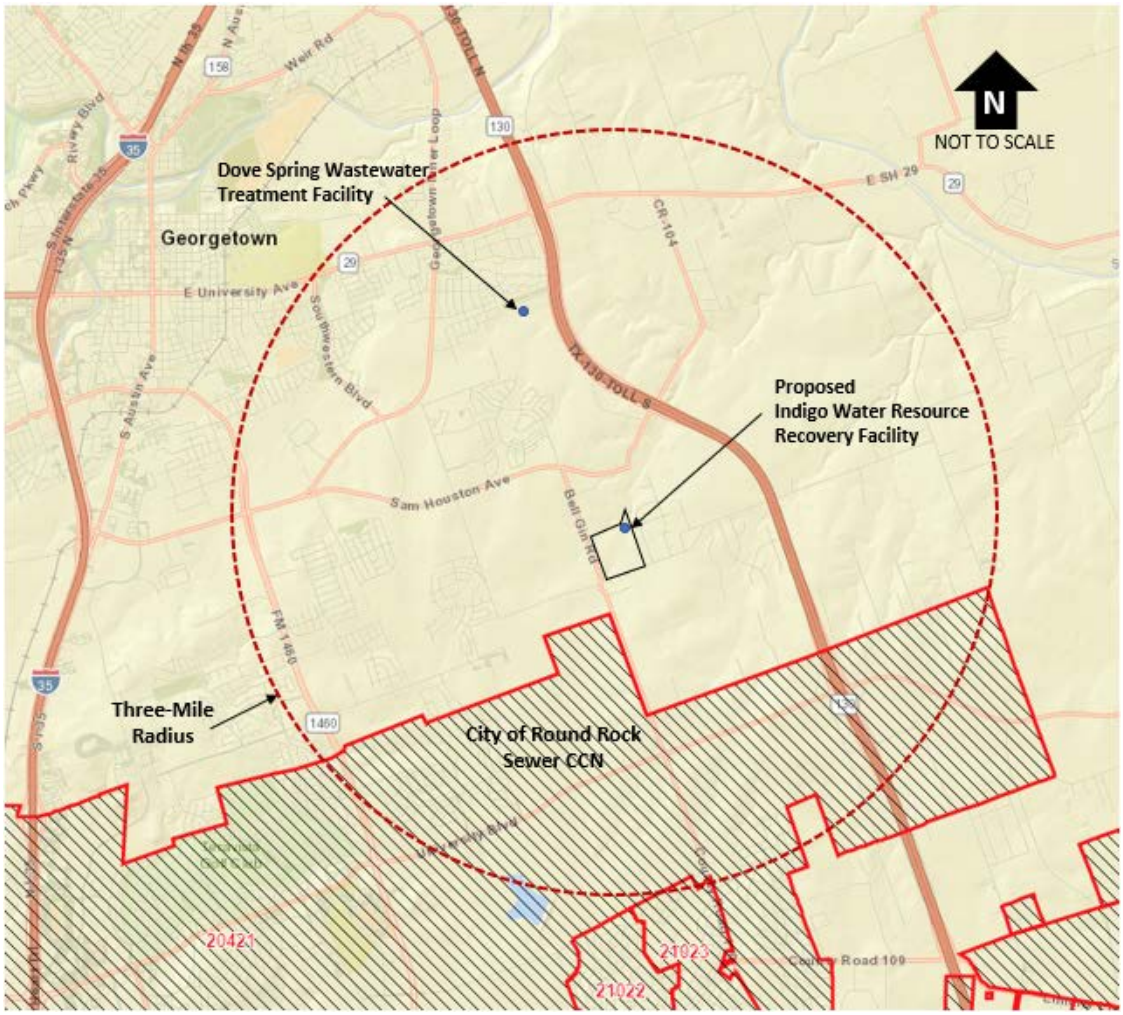
Attachment K
Nearby Collection System and Analysis of Expenditures
Tech Report 1.1, Section 1.B.3

ATTACHMENT K.1
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
NEARBY TREATMENT SYSTEMS

The proposed Indigo Water Resource Recovery Facility (WRRF) for the R040062, LP subdivision lies within Williamson County. The subdivision will have approximately 600 manufactured homes. It is located outside the corporate boundaries of the City of Georgetown (City), but within the City's Extraterritorial Jurisdiction.

The proposed WWRF is located within three miles of the City of Round Rock sewer CCN and the City's Dove Springs Wastewater Treatment Plant (TPDES permit number WQ0010489003). The City of Round Rock does not have any nearby collection system pipes. Figure 1 is a map that presents the location of the proposed WRRF, the nearby Round Rock CCN boundary and the location of the Dove Springs Wastewater Treatment Facility.

Figure 1. Nearby Treatment Facilities Map



Beginning in December 2020, R040062, LP contacted the City concerning connection with their system. A certified letter requesting service, the City's response to the request, and various emails related to acquiring wastewater services are presented as Attachment K.2.

As described in the City's December 23, 2020 response to R040062 LP's Manager, Mr. Mertz, the City indicated that it would provide service for the proposed subdivision but the development must comply with various City requirements. In the preceding email communication between R040062, LP and the City, it also indicated that the proposed subdivision is not within the boundaries of the City's current wastewater master plan. According to the City, R040062 LP will be required to design the infrastructure extension, in accordance with City requirements, and pay for all construction necessary to extend the City's collection system to the proposed site. The City estimated R040062, LP's responsibility for collection system improvements to connect to the City alone would likely approach $10 million and categorized these costs as "relatively expensive up front."

In a pre-application meeting of May 20, 2021, the City further indicated that annexation would be required if the development must use City wastewater and stated that the submittal of an annexation application was among the development applications required for the proposed project. During this May 2021 meeting, the City also stated that R040062, LP's type of residential development – manufactured homes – was only permitted within the Manufactured Housing District which does not presently include Applicant's proposed site.

The analysis of expenditures required to connect to the City's collection system to the site and the comparative option to build an on-site treatment plant were developed. Potential time to complete each option and to have wastewater treatment services in place were also estimated. These cost and time estimates are presented in Attachment K.3.

Based on the cost comparison of the wastewater service options, obtaining service from the City could cost R040062, LP approximately $10 million more than constructing an on-site WRRF. If R040062, LP only constructs the first phase of the project the cost difference between the options could be $13 million.

The evaluation of the two options predicted that the construction of an on-site WRRF also takes less time than connecting to the City's system. The time associated with completing the City connections could be three years longer than constructing an on-site WWRF. Additionally, it is conceivable that City connection could take even longer as the site is not contiguous to the City's system and the City would have to obtain easements which may entail lengthy condemnation proceedings.

Attachment K.3 is a baseline conservative estimate that does not account for professional fees or the lost value of the R040062, LP project associated with annexation. Annexation costs based on lost value when the property is sold, payment of additional City taxes, and costs to comply with the City's numerous other zoning requirements further add to the cost to obtain service form the City. Attachment K.3 also does not consider the significant loss of value the City's prohibition on manufactured homes outside its Manufactured Housing District would have on the project.

In summary, it will require R040062, LP to spend greater than $10 million and wait five years to obtain wastewater services from the City. Therefore, the construction of an on-site treatment facility is an economically better alternative for providing wastewater services to the proposed subdivision.

Attachment K.2

Scipio Capital, LLC
550 Post Oak Blvd., Suite 490
Houston, TX 77024

December 23, 2020

Mr. David Monk
300 Industrial Avenue
Georgetown, TX 78626

Re: Wastewater Service

Mr. Monk,

We are writing to request wastewater service for a parcel of land located in Williamson County, within the Georgetown ETJ. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 64.345 acres located on the northeast side of the intersection of Bell Gin Road and County Road 105 within Williamson County. A legal description of the land is the 64.345 acre tract of land situated in the J McQueen Survey, Abstract No. 426, in Williamson County, Texas, said land being the remainder of those 67.07 acre and 1.16 acre tracts more particularly described in Deed recorded as Document No. 2007004401 of the Official Public Records of Williamson County, Texas. Save and except therefrom that certain 3.885 acre tract described in Document No. 2018082244, Official Public Records, Williamson County, Texas.

Requirement

We estimate needing 85,000 to 90,000 gallons per day of wastewater service with a delivery date of 18 months.

Questions

1. Will the City be able to service the above specified site with wastewater? Please circle one of the below:

(Yes)

No

2. If the answer to Question #1 is "Yes", what would be the cost and how soon could the City service the site? Please provide a response in the below space, or feel free to attach a handwritten or typed response on a separate piece of paper and include in the return envelope.

Service can be provided as soon as the required developer infrastructure extensions are constructed and accepted by the City and Developer complies with City Requirements and regulations related to wastewater service. We do not provide ~~cost~~ detailed estimates for developer required line extensions.

Thank you for your feedback.

Kind regards,

Louis Mertz

Janet Sims

From: Wesley Wright <Wesley.Wright@georgetown.org>
Sent: Wednesday, December 9, 2020 6:03 PM
To: Eli Dragon
Cc: Louis Mertz; David Munk; Lua Saluone; Wayne Reed; Andreina Davila; Sofia Nelson
Subject: FW: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Eli,

Thanks for reaching out and for your interest in Georgetown. We look forward to helping you move forward with your deal.

I understand you're working on setting up a preapp meeting where you'll go over all/most aspects of development. I know there will be some major transportation issues to sort out with two relatively large roads adjacent and through your property, but I think your primary issue will be wastewater. We can certainly talk more at your preapp, but I want to give you our position in advance, so you can properly prepare and work on proformas.

A couple images are pasted below. The first image is our current wastewater master plan. Areas in white are NOT currently included in our master plan line, pumping, or treatment calculations. We are in the middle of efforting a mid-term, informal update as there is a lot of interest for wastewater in the white areas. The second image details what we envision your path for wastewater to be and what is expected to be the city's desired solution. We've generally assumed dense (3.6u/ac) single family detached for this area, but are anxious to know more about what you envision for the area.

As you are no doubt aware, your site is at the peak of a drainage basin. Thus, one would expect the collection system improvements necessary to serve you to be relatively expensive up front. The construction of MB-5, MKN-1, and the associated lift station/force main to serve your site is likely to approach $10MM (perhaps less with private development contracts). However, there are also multiple other properties in play in these drainage basins and they need much of the same infrastructure. Cost sharing/subsequent user fees might be available for whoever installs certain infrastructure first.

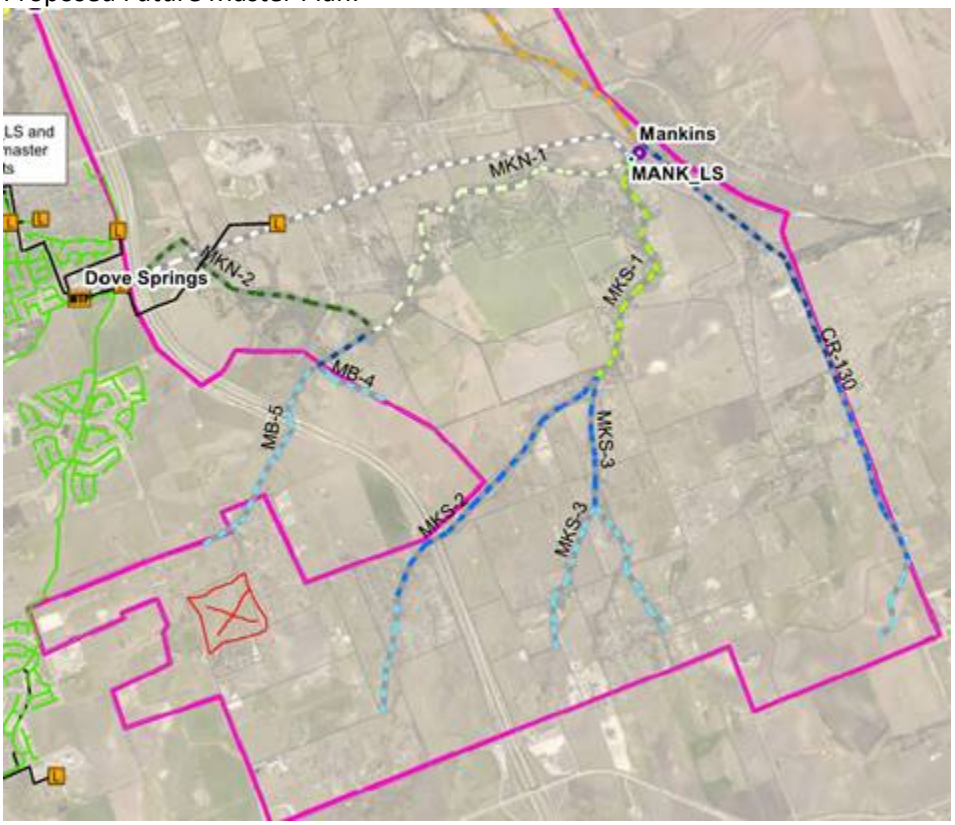
Below there is mention of a private package plant option. For multiple reasons, that's not an option the city is interested in supporting – especially with multiple properties actively seeking entitlement. Our master plan and our priorities are to find regional solutions that work for everyone. Additionally, we are part of a long-standing multi-agency agreement stating that we unilaterally will oppose non-regional, privately owned treatment plants and work towards regionalization. With a clear path to organized wastewater collection via our looming master plan update, we're confident that we can find a better, more regional solution to serve your site (and others).

We look forward to your initial feedback – either here on this thread or at your preapp.

Best,

Current Master Plan:

Proposed Future Master Plan:



Wesley Wright, PE
Systems Engineering Director
City of Georgetown Municipal Complex
300-1 Industrial Ave.
Georgetown, TX 78627
Phone: 512-931-7672
Email: wesley.wright@georgetown.org

Trust : Professionalism : Teamwork : Communication : Work/Life Balance

The Systems Engineering Department's mission is to facilitate system maintenance and growth for our stakeholders through ownership and exceptional engineering services.

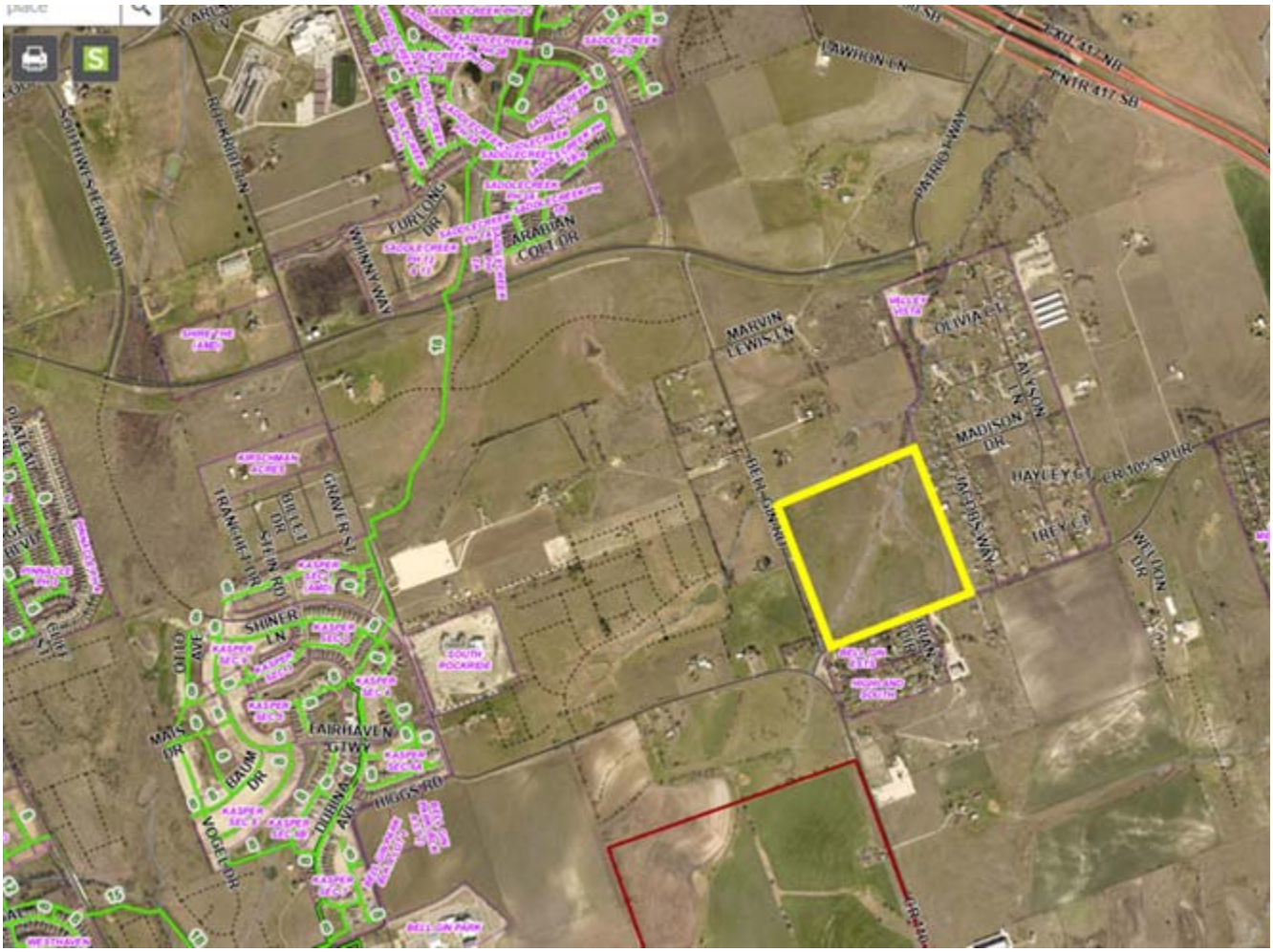
From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Monday, December 7, 2020 8:59 AM
To: David Munk <david.munk@georgetown.org>
Cc: Wesley Wright <Wesley.Wright@georgetown.org>
Subject: FW: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

David,
Eli with Scipio Ventures would like to develop a 64 acre tract (in yellow) at the corner of Bell Gin and CR 105; this tract is just east of Patterson Ranch. This tract isn't on our wastewater master plan but would be served by the MB-5 interceptor and lift station.
From their emails below and the one in blue, they want to install a package plant and in the future when the City or other developer constructs MB-5, they would then tie over to this line.

We are evaluating all opportunities for wastewater.

Our intent is to develop the site in the immediate future. Given the information provided above, it seems that any municipal wastewater solutions will not be available in the immediate future. We are experienced wastewater owners and operators, with systems in a number of areas across Texas. Therefore based on the above, our base case would be pursuing a package pant to service the site until at a later date municipal services may be available.

Can you please begin these discussions internally? We would like to see what the City thinks.



From: Eli Dragon <edragon@scipioventures.com>
Sent: Friday, December 4, 2020 5:19 PM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>; Louis Mertz <lmertz@scipioventures.com>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Lua –

We would like to connect to discuss this further.

1. What are the plans and what is the timing on this service area, MB-5?
2. Our intent is to proceed with development site in the immediate future. What are our options for wastewater service? A TPDES permit with the plans to later switch to the City's service, years down the line?
3. Other considerations we should think through on wastewater service for this area.

What is your availability on Monday?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490

Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Eli Dragon
Sent: Wednesday, December 2, 2020 3:13 PM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Lua –

Noted. Can we schedule a time to connect to discuss in further detail? Do you have availability to connect tomorrow for 45 minutes so I can better understand the current plan in more detail?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Wednesday, December 2, 2020 3:12 PM
To: Eli Dragon <edragon@scipioventures.com>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

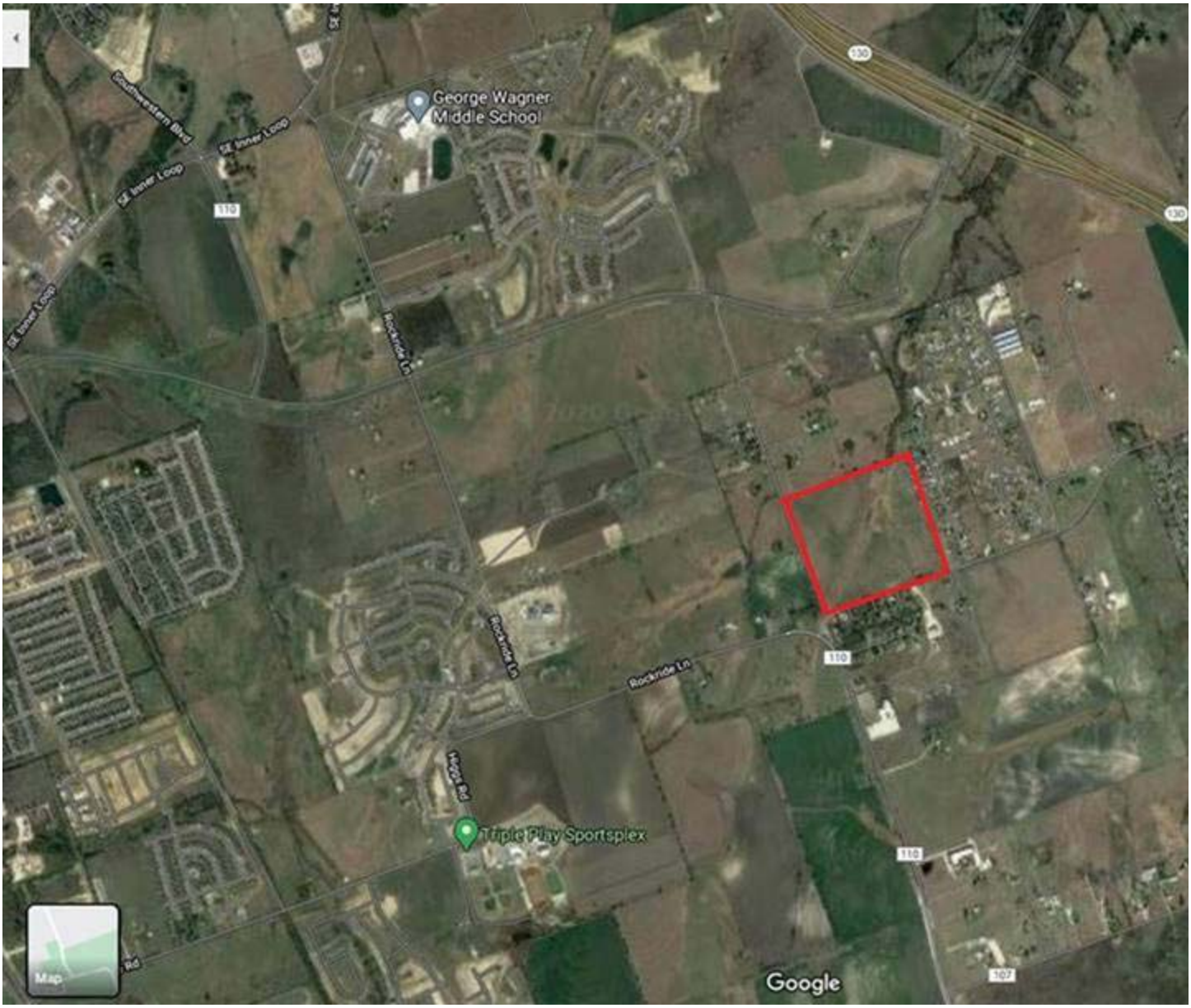
Eli,
Yes, on the current WW master plan, that tract of land wasn't included but with the update to the master plan, it would fall within the MB-5 service area.

From: Eli Dragon <edragon@scipioventures.com>
Sent: Wednesday, December 2, 2020 11:25 AM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Lua –

Apologies, I thought I shared the site. Please see below. It is the Property at Bell Gin Rd & FM 105 / FM 110. It looks like right now we would be landing outside of your master wastewater plan?



Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Eli Dragon
Sent: Wednesday, December 2, 2020 11:20 AM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Lua –

Thank you. I will review the attached and get back to you.

We are still in the early stages of feasibility, but right now we estimate 350 – 400 LUEs.

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Wednesday, December 2, 2020 9:31 AM
To: Eli Dragon <edragon@scipioventures.com>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Eli,
See attached document for our current wastewater master plan. We are in the process of updating the master plan but I don't think the updates will change according to the area you are referencing. The tract of land from your description falls within the MB-5 proposed service area which would require the lift station also.
If you are wanting to send your wastewater to the west, that is something we would need to talk internally about.
How much capacity are you looking for in terms of flow or LUE's?

From: Eli Dragon <edragon@scipioventures.com>
Sent: Wednesday, December 2, 2020 9:05 AM
To: GRP_Engineering <Engineering@georgetown.org>
Subject: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Good Morning –

I am hoping to connect with someone in engineering to discuss prospective wastewater solutions for a residential project we are working on in the City of Georgetown ETJ. This is in southeast Georgetown, about a mile east of Fairhaven Gateway and a mile south of Saddleback. I know the City currently has the WWTP on the west side of SH-130 called Dove Springs WWTP. I am looking to understand the City's plans as far as does that system have capacity, is the City willing to allow new projects to hook up to this system, or what are the current plans for the City?

Is there someone I can quickly connect with to better understand the current position?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

Project Name: Kimbro Prop-Manufactured Housing Community Meeting Date: 5/20/2021

Property Information: Address: NE corner of CR 105 (Westinghouse) & Bell Gin Rd ☐ City / ☒ ETJ

Platted: ☐Yes / ☒ No Legal Description: 64.345 acres out of the John McQueen Survey

Zoning: N/A Overlay: N/A Future Land Use: Neighborhood and CC

Historic Resource Survey: ☐ High ☐ Medium ☐ Low ☒ N/A

MEETING COMMENTS:

Zoning:

Annexation can be required by use of:

1. Wastewater – If this development must use City wastewater annexation will be required. But, this property is not currently contiguous and eligible to be annexed. If annexation is not possible there may be a path forward through a development agreement option.

Described product is only permitted within the Manufactured Housing District as it cannot be certified to meet the requirements of the IRC and it is built to HUD Standards. This district has specific design guidelines in UDC 6.02.100.

Zoning requirements like building design, parking minimums, landscaping, lighting, etc. only apply in the city limits.

Signage requires a permit per UDC Chapter 10 in both the city limits and the ETJ.

Subdivision:

A legal lot letter has been issued. But, if any public utilities are extended to this site a plat would be required.

- Preliminary Final Plat Combo is four lots or less.
- Preliminary and Final Plats if five or more lots.

If platting is triggered, then ROW dedication is required along permitter roadways. ROW dedication and construction of the the Patriot Way extension is required, too.

Parkland Dedication and Development Fees are required regardless of in the City or the ETJ. Depends on if the property is classified as single-family or multi-family per UDC definitions.

Parkland Dedication	
One or two dwelling units on a lot or parcel	$650 per unit
Three or more dwelling units on a lot or parcel	$475 per unit
Parkland Development	
One or two dwelling units on a lot or parcel	$1000 per unit
Three or more dwelling units on a lot or parcel	$750 per unit

Applicable Development and Zoning Standards:

The zoning standards applicable to the property will be determined by the zoning district. Standards for residential zoning districts are outlined in Chapter 6. Standards for non-residential zoning districts are outlined in Chapter 7.

Overall development standards are outlined in the UDC sections listed below. However, please note this is not an all-inclusive list and that other sections of the UDC may apply to your project:

- Permitted Use Tables – Chapter 5
  - Residential Uses – Sec. 5.02
  - Civic Uses – Sec. 5.03
  - Commercial Uses – Sec. 5.04
  - Transportation and Utility Uses – Sec. 5.05
  - Industrial Uses – Sec. 5.06
  - Agricultural Uses – Sec. 5.07
  - Temporary Uses – Sec. 5.08
  - Outdoor Display and Storage – Sec. 5.09
  - Wireless Transmission Facilities – Sec. 5.10
- Residential Development Standards – Sec. 6.02
  - Please note that all buildings, structures and other site improvements and features must be located outside of required setbacks. For a list of features allowed within required setbacks, please refer to Sec. 6.04.020.C
  - Dimensional interpretations and exceptions are outlined in UDC Sec. 6.04
  - Additional standards for accessory structures, garages and carports are outlined in UDC Sec. 6.05
  - Please note that front loaded garages must be set back 25 feet.
- Common Amenity Area requirements – Sec. 6.06
- Non-Residential Development Standards – Sec. 7.02
  - Please note that all buildings, structures and site improvements and features must be located outside required setbacks. For a list of features allowed within required setbacks, please refer to Sec. 7.02.030.C
- Building Design requirements (elements, architectural features, articulation, etc.) – Sec. 7.03
- Lighting requirements – Sec. 7.04
- Tree Preservation requirements – Sec. 8.02
- Landscape, bufferyard and screening requirements – Sec. 8.03 (Residential) and Sec. 8.04 (Non-Residential)
- Residential Fences – Sec. 8.07.040
  - Within the front yard and street side setback, fences are limited to 4 feet in height and 50% transparency.
- Apartment Fences – Sec. 8.07.050
- Residential Boundary Wall requirements – Sec. 8.07.060
- Non-residential Fences – Sec. 8.07.070
- Parking Requirements – Sec. 9.02
  - Parking spaces in excess of the minimum number required, require additional landscaping as outlined in the UDC.
- Vehicle Stacking – Sec. 9.04
- Off-Street Loading – Sec. 9.05
- Signage – Ch 10
- Impervious Cover – Sec 11.02
- Stormwater Management – Sec 11.04
- Water Quality – Sec 11.07
- Special Development Types

- Housing Diversity Development – Sec. 4.05.010 and Sec. 6.07.010
- Conservation Subdivision – Sec. 4.05.020, Sec. 6.07.010 and Sec. 11.06
- Multi-Lot Unified Development – Sec. 4.05.030, Sec. 6.07.030 (Residential) and 7.02.030.E (Non-Residential)
- Workforce Housing Development – Sec. 6.07.040

Required Applications:

For the proposed project, the following development applications are required and thus must be submitted for review and approval (in the order identified below – **bold** applications are only required if annexing; italicized items are only required if subdivided):

- **Annexation – Sec. 3.25**
  - **Approval Criteria – Sec. 3.25.030**
- **Rezoning – Sec. 3.06**
  - **Approval Criteria (Base Zoning) – Sec. 3.06.030**
- *Subdivision Plat: Preliminary and Final – Sec. 3.08*
  - *Preliminary Plats – Sec. 3.08.070*
  - *Recording Plats – Sec. 3.08.080*
- *Subdivision Constructions Plans – Sec. 3.08.100*
  - *Subdivision Construction Plans must be submitted prior to or concurrent with the submission of the Final Plat.*
- **Site Development Plan – Sec. 3.09**
  - **Site Development Plan may not be approved until the Final Plat is recorded.**

NOTES COMPLETED BY:

☒	Ethan Harwell	Senior Planner	(512) 930-3692	ethan.harwell@georgetown.org
☐	Michael Patroski	Planner	(512) 930-3580	michael.patroski@georgetown.org
☐	Ryan Clark	Planner	(512) 931-7746	ryan.clark@georgetown.org
☐	Britin Bostick	Historic Planner	(512) 930-3581	Britin.bostick@georgetown.org

ATTACHMENT K.3
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
COMPARISON OF COST AND TIMING OF SERVICE

Wastewater service was requested from the City of Georgetown (City) prior to submittal of this permit application. It was determined that wastewater service options available from the City were neither timely nor economically viable.

The City did not provide definitive costs or a list of specific facilities necessary for connection to their system. Maps were provided showing conceptual routes for gravity sewers and a new lift station and force main preliminarily planned to serve the general area. The cost of the facilities needed was estimated as potentially being greater than $10 million in one email from the City. With exact routes, line sizes, depths and developer agreements not being available, it is very difficult to develop potential costs for connection to the City's system. However, based on maps provided by the City and on pipeline costs consistent with those used in the City's 2018 Wastewater Master Plan for similar pipelines, a potential cost for connection of $15.8 million was developed. Either cost estimate would be substantially higher than the $2.1 million cost estimated for the first phase of the treatment facility that is proposed in this permit application.

In addition, since the pipelines needed for connection to the City's system would require route investigations, geotechnical testing, surveying, land ownership research, easement acquisition (possibly including condemnation), multiple road crossing permits, design, and competitive bidding, it is estimated that City-provided wastewater service through the routes proposed by the City would be unlikely to be available in less than five years from the date route and sizing investigations could begin. Service through the treatment facility proposed in this permit application, conversely, could be active in approximately two years from the date a permit application is submitted to TCEQ.

Figure 1 is a map that illustrates the pipelines proposed by the City of Georgetown as being necessary for connection to their system. It is acknowledged that exact line lengths, depths, slopes and sizes are not known. However, it appears that approximately 20,600 linear feet of gravity sewer would need to be constructed, not counting the applicant's connection to Georgetown's future system, and that a new lift station and approximately 17,300 linear feet of force main would be needed to deliver flows from the gravity system to the City's treatment plant. The size, depth and the capacity of the new lift station are not known and would need planning to determine.

Figure 1 – Routes for Potential Connection to City System

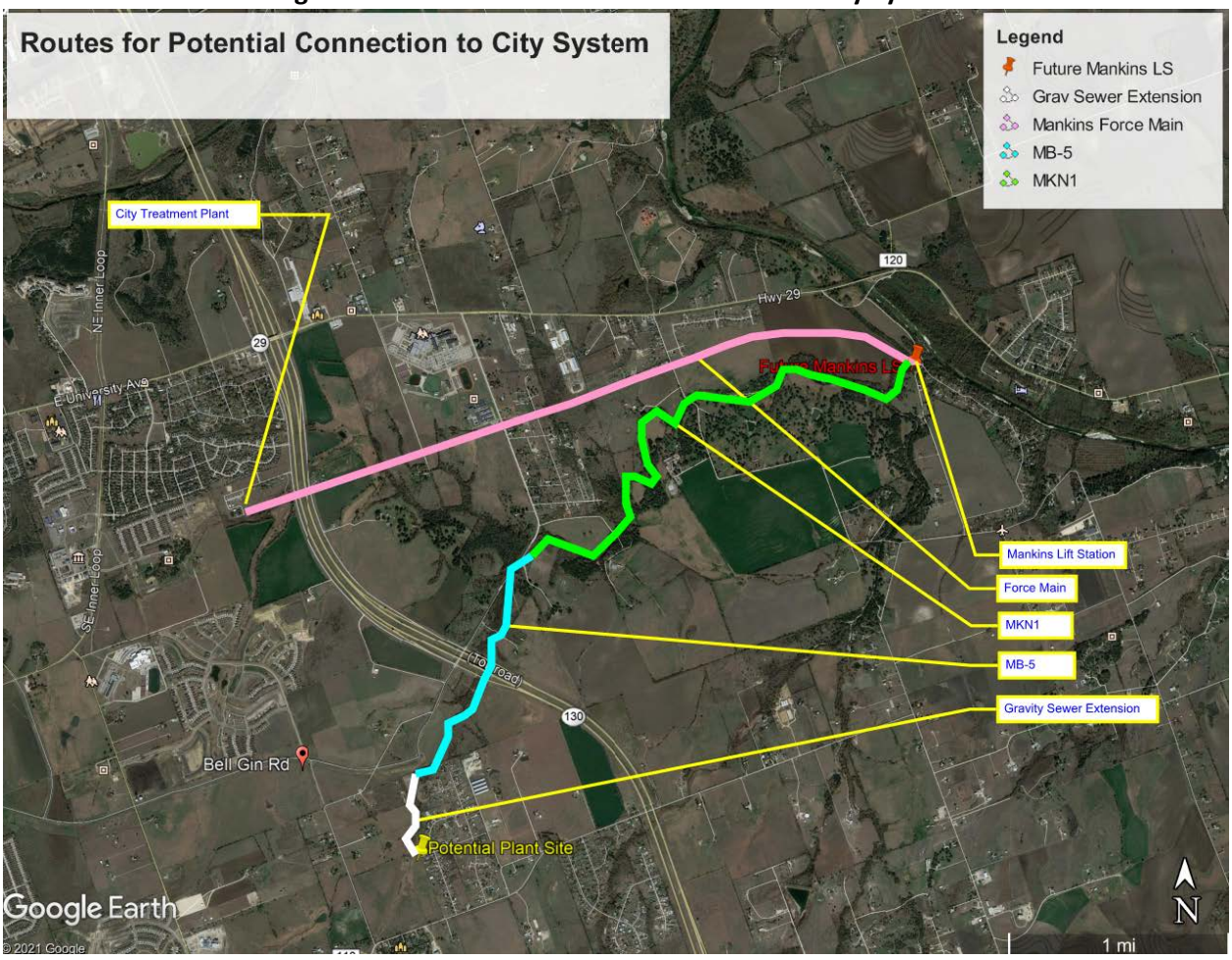
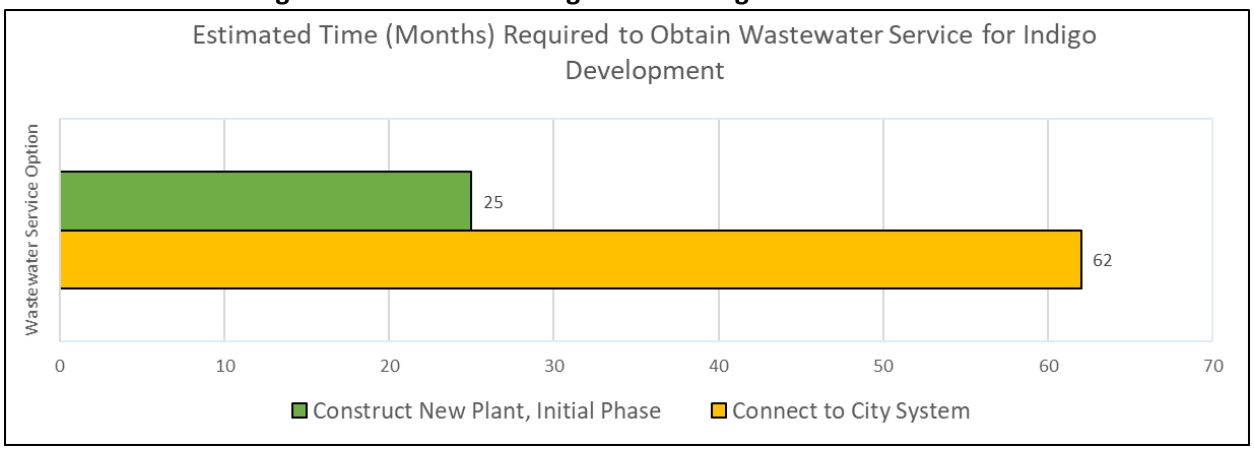


Figure 2 is a bar graph that illustrates the potential timing for obtaining wastewater service from the City as opposed to obtaining service through an independently constructed on-site treatment system. Due to the time required to plan pipeline routes and obtain necessary permits and land rights, development of the piping necessary for a connection to the City is projected to take three years longer than building the proposed treatment plant.

Figure 2 – Potential Timing for Obtaining Wastewater Service



The cost comparison table below illustrates the cost advantage of constructing the initial phase of the proposed treatment plant as opposed to connecting to the City's system. It is acknowledged that because detailed planning has not yet been performed, insufficient information exists to accurately project the costs of all lines needed to connect to the City's system. Using unit costs consistent with those used in the City's 2018 Wastewater Master Plan, however (for size *ranges* anticipated rather than for specific pipe sizes or depths) and assigning assumed costs to a potential first phase lift station, it is clear that the cost of developing wastewater service in the immediate future is substantially less if a new treatment plant is built at the site proposed in the permit application as opposed to connecting to the City's system. The cost advantage is still clear even at the $10 million plus figure initially cited in City email correspondence. The cost comparison below does not account for potential cost recovery through developer's agreements, nor does it account for potentially significant lost value opportunities potentially attributable to land use controls and property taxes if annexation is required as a condition of service from the City.

Table 1 – Cost Comparisons of Treatment Options

Independent Water Resource Recovery Plant		
Initial Phase Only - Probable Cost	$	2,156,250
Second Phase - Probable Cost	$	3,593,750
Total Potential Cost for Treatment Plant, Two Phases	**$**	**5,750,000**
Connection to City of Georgetown System		
Impact Fees[2]	$	716,450
Potential Cost, Connector to MB-5[3] (White)	$	910,000
Potential Cost, Initial City Lift Station [4]	$	3,000,000
Cost to install MB-5[3] (Blue)	$	2,880,000
Cost to install MKN-1[3] (Green)	$	7,360,000
Mankins Force Main[3] (Pink)	$	1,630,000
Total Potential Cost of Connection to City Wastewater System	**$**	**15,780,000**

This narrative was prepared by Mark A. Perkins, Texas PE 60329, Perkins Engineering Consultants, Inc., TBPELS Firm F 8699, June 8th, 2021

Attachment L

Design Calculations and Plant Features

Tech Report 1.1, Section 4

ATTACHMENT L
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
DESIGN CALCULATIONS AND PLANT FEATURES - INTERIM I PHASE

Flow and Loading

Design Flow	0.075	MGD
BOD5 Design Concentration	300	mg/L
Design Organic Loading	188	lb BOD5/day
Peak Flow	0.3000	MGD
Peaking Factor	4.0	

Activated Sludge Treatment

No. of Basins	1	
Volume at Normal WSE	5,670	cf
Nominal Basin Dimensions 45'L 12'W 10.5' SWD	42,417	gal
Detention Time at Design Flow	13.6	hrs
Detention Time at Peak Flow	3.4	hrs
Organic Loading at Design Flow	33.1	lb BOD/d/1000 cf
TCEQ Design Max. Allowable Organic Loading	**35.0**	**lb BOD/d/1000 cf**

Secondary Clarification

No. of Basins	1	
SWD	11.0	ft
Diameter	20.0	ft
Surface Area, Total	314	sf
Volume, Total	3,456	cf
	25,850	gal
Surface Loading Rate at Design Flow	239	gpd/sf
Surface Loading Rate at Peak Flow	955	gpd/sf
TCEQ Max. Surface Loading Rate at Peak Flow	**1,200.0**	**gpd/sf**
Detention Time at Design Flow	8.3	hrs
Detention Time at Peak Flow	2.1	hrs
TCEQ Min. Detention Time at Peak Flow	**1.8**	**hrs**
Allowable Peak Flow = Volume/120mins=	310,200.0	gpd
Peak Flow =	300,000.0	gpd
2 Hour Peak Flow Capacity of Clarifier based on TCEQ Max Surface Loading	**376,991.1**	**gpd**
2 Hour Peak Flow Capacity of Clarifier Based on TCEQ Min. Detention Time Criteria	**344,666.7**	**gpd**

Chlorine Contact

No. of Chlorine Contact Basins	1	
Volume, Total	630	cf
Nominal Basin Dimensions 18'L 5'W 7'SWD	4,713	gal
Detention Time at Peak Flow	22.6	min
TCEQ Min Detention Time at Peak Flow	**20.0**	**min**
Peak Flow =	208.3	gpm

Note: Exact basin dimensions will vary by equipment manuacturer selected

For TCEQ Permit Purposes

Prepared under the supervision of Mark A. Perkins, Texas PE 60329

Perkins Engineering Consultants, Inc., TBPELS Firm F8699

20-May-21

ATTACHMENT L
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
DESIGN CALCULATIONS AND PLANT FEATURES - FINAL PHASE (Parallel to Interim Phase)

Flow and Loading

Design Flow	0.125	MGD
BOD5 Design Concentration	300	mg/L
Design Organic Loading	313	lb BOD5/day
Peak Flow	0.5000	MGD
Peaking Factor	4.0	

Activated Sludge Treatment

No. of Basins	1	
Volume at Normal WSE	9,072	cf
	67,868	gal
Nominal Basin Dimensions 72'L 12'W 10.5'SWD (This may be two basins at 36' nminal length each)		
Detention Time at Design Flow	13.0	hrs
Detention Time at Peak Flow	3.3	hrs
Organic Loading at Design Flow	34.5	lb BOD/d/1000 cf
TCEQ Design Max. Allowable Organic Loading	**35.0**	**lb BOD/d/1000 cf**

Secondary Clarification

No. of Basins	1	
SWD	11.0	ft
Diameter	24.0	ft
Surface Area, Total	452	sf
Volume, Total	4,976	cf
	37,230	gal
Surface Loading Rate at Design Flow	276	gpd/sf
Surface Loading Rate at Peak Flow	1,105	gpd/sf
TCEQ Max. Surface Loading Rate at Peak Flow	**1,200.0**	**gpd/sf**
Detention Time at Design Flow	7.1	hrs
Detention Time at Peak Flow	1.8	hrs
TCEQ Min. Detention Time at Peak Flow	**1.8**	**hrs**
Allowable Peak Flow = Volume/120mins=	446,760.0	gpd
Peak Flow =	500,000.0	gpd
2 Hour Peak Flow Capacity of Clarifier based on TCEQ Max Surface Loading	**542,867.2**	**gpd**
2 Hour Peak Flow Capacity of Clarifier Based on TCEQ Min. Detention Time Criteria	**496,400.0**	**gpd**

Chlorine Contact

No. of Chlorine Contact Basins	1	
Volume, Total	960	cf
Nominal Basin Dimensions 24'L 5'W 8'SWD	7,182	gal
Detention Time at Peak Flow	20.7	min
TCEQ Min Detention Time at Peak Flow	**20.0**	**min**
Peak Flow =	278.0	gpm

Note: Exact basin dimensions will vary by equipment manuacturer selected

For TCEQ Permit Purposes

Prepared under the supervision of Mark A. Perkins, Texas PE 60329

Perkins Engineering Consultants, Inc., TBPELS Firm F8699

20-May-21

ATTACHMENT L

R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
APPLICATION FOR NEW
TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT
DESIGN CALCULATIONS AND PLANT FEATURES

Facility Design Features

a. Design Features for Reliability and Operating Flexibility

The WWTP will be designed with galvanized, stainless steel, and protective coatings to prevent corrosion and provide a long- lasting system. Air diffusers will be constructed to allow removal, replacement, and inspection without drain the basins. With the small size of this system, temporary pumping and hauling of wastewater can be done for short periods of time if necessary. When ultimately expanded to satisfy capacities needed for the Final phase, dual treatment trains are expected to be present.

b. Excessive inflow or infiltration

All treatment units will have the freeboard needed to satisfy TCEQ Design Criteria.
The Water Resource Reclamation Facility will initially serve the proposed residential subdivision in its initial phase, followed by an expansion to serve a second phase when developed. The collection system is relatively short and will not cross waterways that are continually flowing. The residential development will have new sewer collection lines, constructed with gasketed joints and non-porous pipe materials. Because the collection system will be new construction, minimal infiltration and inflow is expected.

c. Power Failure

A generator is recommended for backup power.

d. Equipment Malfunction

Each major piece of mechanical equipment (pumps, blowers, and RAS pumps) is being provided in duplicate. The plant is expected to be designed such that its capacity is met with the largest of each of these pieces of equipment out of service.

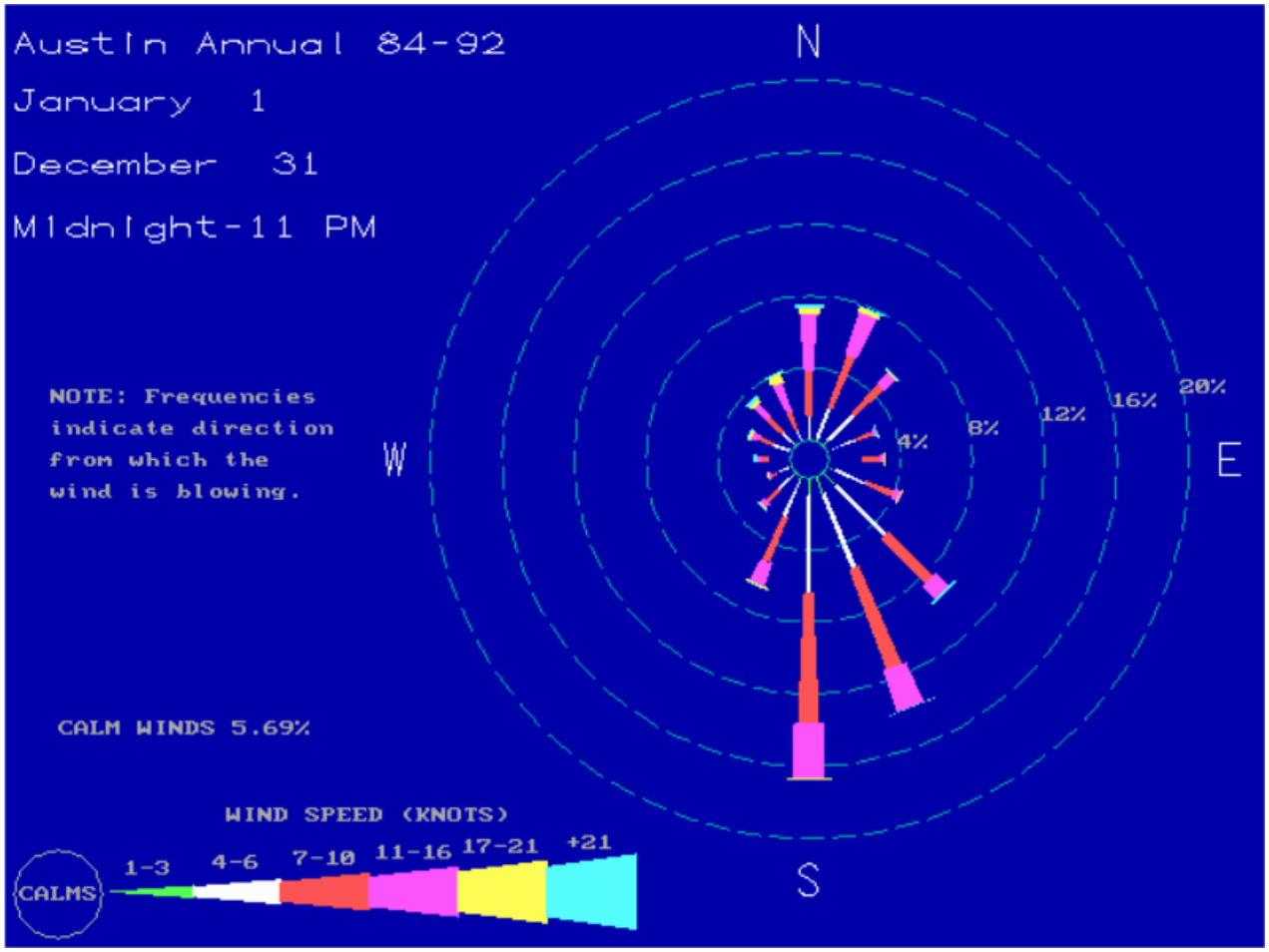
e. Facility unit Maintenance & Repair

To the extent practical, all major equipment will be accessible and retrievable from the working surface above the plant or from ground level beside the plant.

Attachment M

Wind Rose

Tech Report 1.1, Section 5.B



ATTACHMENT M
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
WIND ROSE

Attachment N

Sewage Sludge Solids Management Plan

Tech Report 1.1, Section 7

ATTACHMENT N
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

- **TREATMENT UNITS AND PROCESS DIMENSIONS**

See Treatment Units presented in Section 3.B of the Technical Report, (form TCEQ-10054) page 2 of 80.

- **PROJECTED SOLIDS GENERATION:**

The table below shows the amount of solids generated at design flow, and at 75%, 50%, and 25% design flow. The proposed Final Phase Design Flow is 0.2 MGD.

Interim I Phase:

Percent of Design Flow	Dry Pounds Per Day
25%	38
50%	75
75%	113
100%	150

Final Phase:

Percent of Design Flow	Dry Pounds Per Day
25%	100
50%	200
75%	300
100%	400

It is expected that sludge can be thickened by decanting to 1.5-percent solids in the plant's solids holding tank. Hauling frequency will vary based on flows, wasteloads, and thickening efficiency. Quantities shown above are based on an assumed production of 1.0 dry tons of solids per million gallons treated.

- **MLSS RANGE:**

MLSS in the aeration basin is expected to be in the 2,000 to 5,000 mg/l range.

- **OWNERSHIP OF ULTIMATE SLUDGE DISPOSAL SITE:**

Liquid sludge is transported by registered hauler, WasteWater Transportation Services, Registration No. 24343, to a sludge processing facility in Travis County Texas (Austin Wastewater Processing Facility, MSW 2384).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 15, 2021

CERTIFIED MAIL

Mr. Eli Dragon
Principal
R040062, LP
5599 San Felipe Street, Suite 565
Houston, Texas 77056

Re: Application for Proposed Permit No. WQ0016008001 (EPA I.D TX0141437)
Issued to R040062, LP
CN605905942, RN111287538

Dear Mr. Dragon:

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. Please address the following items on the Core Data Form:
    a. Section 2, items 7 and 8 on page 1: After a routine check with the Texas Secretary of State and Texas State Comptroller, we have found that the charter number and tax identification number provided is for Scipio Ventures, LLC not R040062, LP. Please confirm if the applicant is Scipio Ventures, LLC or R040062, LP. If the applicant is R040062, LP, please provide a revised page indicating the correct charter number and tax identification number. If the applicant is Scipio Ventures, LLC, please provide revised pages indicating the correct name of the applicant.
    b. Section 3, item 25 on page 2, Section 10.a on page 9 and Supplemental Permit Information Form, item 1 on page 16: The location description indicated is accurate; however, the description must include the distance in feet or miles from road intersections. We have provided a suggestion to use for the location description, the facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way. Please provide a revised facility location description that uses road intersections.
2. Section 8.d on page 7 of the administrative report: Please confirm Angelina & Neches River Authority Central Office is open to the public. The public viewing location must be available at the time the notice is published in the paper. If the location is not available, a new public viewing location in the county is required. Due to COVID-19, if a publicly owned building cannot be found, the new location may consist of any reasonable location within the county that is accessible to the public where the application can be reviewed and copied (or where extra copies are made available by the applicant for public distribution) during reasonable hours during the day. The location does not need

to be a publicly owned building; however, it must be accessible to the public. If a publicly accessible physical viewing location cannot be found in the county, the complete application can be posted online for public viewing. A direct weblink to the documents must be provided and included in the public notice. Also, a written statement certifying that a diligent search to locate a publicly accessible physical viewing location was made and the required application documents will be posted online at the time the notice is published is required.

3. Section 8.e, item 4 on page 8 of the administrative report: This question was not addressed; however, it is required. Please provide a revised page indicating a response to question 4.
4. Section 14 on page 13 of the administrative report: Please verify that Louis Mertz, Manager, is an authorized officer that meets the signatory requirements specified in 30 Texas Administrative Code (TAC) 305.44. According to the application instructions, for a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively. If Louis Mertz does not meet these requirements, please provide a new signature page signed by an authorized officer that meets the signatory requirements.
5. Domestic Administrative Report 1.1, Section 1.b on page 14: The landowners list submitted indicates that information for Landowner #12 is unknown. Please provide a screen shot from the Williamson County Appraisal District showing that information is not available for landowner #12.
6. 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.

   APPLICATION. *(Pending response) R040062, LP,* 5599 San Felipe Street, Suite 565, Houston, Texas 77056, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016008001 (EPA I.D. No. TX0141437) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 200,000 gallons per day. The domestic wastewater treatment facility will be located *(pending response of location description that meets TCEQ requirements)* in Williamson County, Texas 78626. The discharge route will be from the plant site to an unnamed tributary of Mankins Branch; thence to Mankins Branch; thence to the San Gabriel/North Fork San Gabriel River. TCEQ received this application on June 11, 2021. The permit application is available for viewing and copying at Georgetown Public Library, 402 West 8th Street, Georgetown, 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.

   https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=db5bac44afbc468bbddd360f8168250f&marker=-97.619%2C30.60798&level=12

Notice prepared with information from current permit. At time of preparation of this notice, there are pending responses. (Applicant's name and revised facility location description)

Further information may also be obtained from *R040062, LP* at the address stated above or by calling Mr. Eli Dragon at 832-487-0576.

Please submit the complete response, addressed to my attention by August 14, 2021. If the requested information is not received by the given deadline, pursuant to 30 TAC Chapter 281, the application will be removed from our list of pending applications. If you should have any other questions, please do not hesitate to call me at (512) 239-0084.

Sincerely,

Michelle A. Teller
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

cc: Ms. Janet Sims, Sr. Project Manager, Perkins Engineering Consultants, Inc., 13740 North Highway 183, Unit L-6, Austin, Texas 78750

bcc: Region 11, Water Program Manager

PERKINS
ENGINEERING
CONSULTANTS, INC.

13740 N. Highway 183 #L6
Austin, TX 78750
Office: 512-735-1001
Fax: 512-735-1002
www.perkinsconsultants.com

July 19, 2021

Michelle Teller
Application Review and Processing Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: R040062 LP
Application for Proposes Permit No. WQ0016008001 (EPA I.D. TX0141437)
CN605905942, RN111287538

Dear Ms. Teller:

Your comments presented in a letter dated July 15, 2021, have been reviewed. Following are the responses to your comments.

1.a. Section 2, item 7 and 8 on page 1 of Core Data Form: The application is R040062, LP. The Core Data Form has been revised. The charter number and tax identification number for R040062, LP have been corrected. See Enclosure A.

1.b Section 3, item 25 on page 2 of the Core Data Form, Section 10.a on page 9 of the Administrative Report and item 1 of the Supplemental Permit Information Form, page 16: The location description for the proposed facilities has been revised as requested. See Enclosure B.

2. Section 8.d on page 7 of the Administrative Report 1.0: The public viewing location for the permit documents is the Georgetown Public Library as described in the application. The library is open to the public.

3. Section 8.e, item 4 on page 8 of the Administrative Report 1.0: The question related to a waiver out of the bilingual education program is not relevant given the response to items 1 and 2 of the section that indicates there are students enrolled in a bilingual education program. Page 8 of the Administrative Report has been revised. An “N/A” has been added. See Enclosure C.

4. Section 14 on page 13 of the Administrative Report 1.0: Mr. Louis Mertz is an authorized officer that meets the signatory requirement as specified in 30 Texas Administrative Code 305.44.

5. Section 1.b on page 14 of the Administrative Report 1.1: The information for landowner #12 is not known. A screen shot from the Williamson County Appraisal District is provided as Enclosure D. The property identified as #12 on the figure labeled

Attachment C.1 in the application is highlighted. The records show the owner information is unavailable.

6. The portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit that was provided in your letter has been reviewed. The information is accurate and complete.

R040062, LP appreciates your assistance with this permit application. If you have questions about the information presented, please contact me at (512) 735-1001.

Sincerely,

Janet Sims
Perkins Engineering Consultants, Inc.

Enclosures (4)

Cc: Eli Dragon, R040062, LP
Mark Perkins, PECI

Enclosure A
Core Data Form, page 1

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.*)

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

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

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)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

R040062 LP

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
803969672	32078183665		

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ Yes ☐ No

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address: 5599 San Felipe St., Suite 565

City	Houston	State	TX	ZIP	77056	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(832) 485-1907		( ) -

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)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ 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.)*

Indigo Water Resource Recovery Facility

Enclosure B
Core Data Form, page 2
Administrative Report, page 9
Supplemental Permit Information Form, page 16

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	The facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way.

26. Nearest City	State	Nearest ZIP Code
Georgetown	TX	78626

27. Latitude (N) In Decimal:	30.60798	28. Longitude (W) In Decimal:	97.61900

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	36	28.73	-97	37	8.41

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)
6552		237210	

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

Real estate developer

34. Mailing Address:	5599 San Felipe St, Suite 565						
City	Houston	State	TX	ZIP	77027	ZIP + 4	
35. E-Mail Address:	lmertz@scipioventures.com						

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(832) 485-1907		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Janet Sims	41. Title:	Project Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 734-1001		( ) -	jsims@perkinsconsultants.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:	R040062 LP	Job Title:	Manager
Name *(In Print)*:	Louis Mertz	Phone:	(832) 485- 1907
Signature:		Date:	

F. Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant): N/A

Prefix (Mr., Ms., Miss): Click here to enter text.

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, Zip Code: Click here to enter text.

Phone No.: Click here to enter text. E-mail Address: Click here to enter text.

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 **New Permit**

If **no**, **or a new permit application**, please give an accurate description:

The water resource recovery facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way in Williamson County.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No **New Permit**

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:

The discharge is to an unnamed tributary of Mankins Branch, thence to Mankins Branch, thence to San Gabriel/North Fork San Gabriel in Segment No. 1248 of the Brazos River Basin.

City nearest the outfall(s): **Georgetown**

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

Outfall Latitude: **30.60811** Longitude: **-97.61960**

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.

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: **R040062, LP**

   Permit No. WQ00 **N/A** EPA ID No. TX **N/A**

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

   The facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way.

Enclosure C
Administrative Report 1.0, page 8

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. **RNN/A**

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):

Indigo Water Resource Recovery Facility

C. Owner of treatment facility: **R040062, LP**

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** E-mail Address: **lmertz@scipioventures.com**

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: N/A

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Click here to enter text

Mailing Address: Click here to enter text

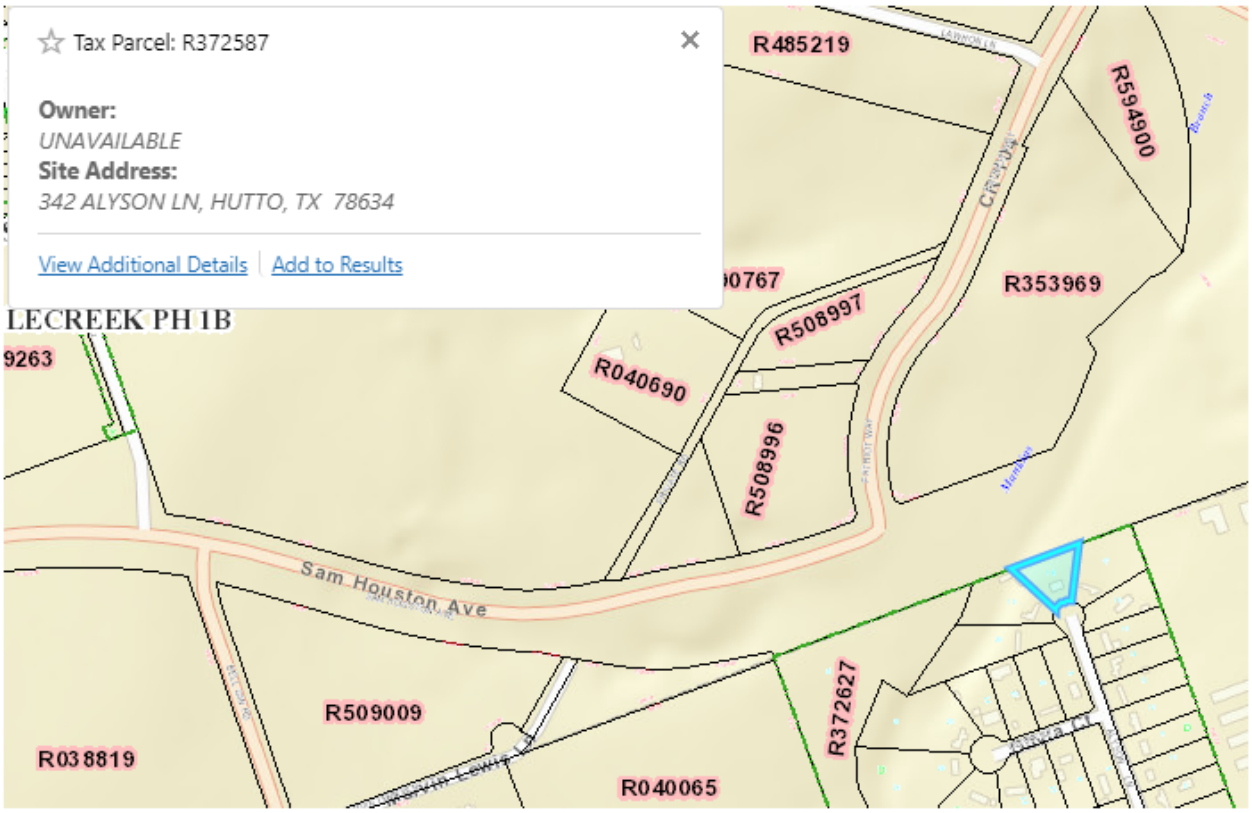
City, State, Zip Code: Click here to enter text

Phone No.: Click here to enter text E-mail Address: Click here to enter text

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**

Enclosure D
Williamson County Appraisal District Screen Shot


Tax Parcel: R372587
Owner:
UNAVAILABLE
Site Address:
342 ALYSON LN, HUTTO, TX 78634
View Additional Details
Add to Results
R485219
R594900
R353969
R508997
R040690
R508996
LECREEK PH 1B
9263
Sam Houston Ave
R509009
R038819
R040065
R372627

PERKINS ENGINEERING CONSULTANTS, INC.
A Mead & Hunt Company

January 21, 2022

Sonia Bhuiya
Municipal Wastewater Permit Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: R040062, L.P. – Indigo Resource Recovery Facility
Draft Permit WQ0016008001

Dear Ms. Bhuiya:

R040062, LP and Perkins Engineering Consultants, Inc. (PECI) have reviewed the draft permit, statement of basis/technical summary (Fact Sheet), and the portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) that were provided on December 13, 2021. Following are comments to the documents:

1. Fact Sheet and Draft Permit - The name of the facility is misspelled several times in the document. The name is “Indigo,” not Indi~~d~~o.
2. Fact Sheet, Project Description and Location - The word “holding” is misspelled in the second sentence, first paragraph of the Project Description and Location section.
3. Fact Sheet, Project Description and Location - The list of treatments identified for the Final phase should indicate that the units are additional units to the Interim I phase facilities.
4. The last sentence of the first paragraph of the Project Description and Location section should read as follows:

   Treatment units <u>added</u> in the Final phase will include two aeration basins, one final clarifier, one sludge holding tank, and a chlorine contact chamber.
5. Fact Sheet, Project Description and Location - The word “intermittent” is misspelled in the second sentence of the fourth paragraph of the Project Description and Location section.
6. Fact Sheet, Project Description and Location - The last sentence of the fourth paragraph of the Project Description and Location section should be deleted. The document does not provide the link to the electronic location map.
7. Fact Sheet, Summary of Changes from Application - The Summary of Changes from Application section is not accurate. The Fact Sheet indicates the draft permit is consistent with the application. However, the applicant did not request the total phosphorus limits that are proposed for both the Interim I (0.075 MGD) phase and the Final (0.20 MGD) phase.
8. Fact Sheet, Basis for Draft Permit - The application was received by TCEQ on June 10, 2021.
9. Fact Sheet, Basis for Draft Permit - Additional information was provided to TCEQ on July 19th and not August 24th.

10. Draft Permit, Cover Page - The facility is a water resource recovery facility. Please delete the words “Wastewater Treatment Facility” in the first sentence of page 1.
11. Draft Permit, Effluent Limitations and Monitoring Requirements - The word “Continuous,” which is the measurement frequency associated with flow is misspelled on pages 2 and 2a.
12. Draft Permit, Effluent Limitations and Monitoring Requirements - The description of the meter used to monitor flow should be “Totalizer Meter” not Totalization.
13. Draft Permit, Effluent Limitations and Monitoring Requirements - The TCEQ Nutrient Screening results for the proposed R040062, LP – Indigo Water Resource Recovery Facility WQ0016008001 differ substantially from the stream characteristics PECI identified based on a site visit of the discharge route on January 10, 2022 for 3 miles downstream of the outfall. The stream characteristics PECI observed and documented (see attached photographs and photo location map) identify a significantly lower average scoring than calculated by TCEQ. No phosphorus limit is appropriate based on a proper characterization of the stream segment.

    The characteristics of the receiving stream downstream of the discharge as observed and documented on January 10, 2022, a day that fairly represents typical conditions in the stream, are as follows:

    - Bottom – The description of the receiving water substrate as having larger rocks and boulders, rock slabs for the receiving water is incorrect. The upper end of the receiving stream is mud. Other portions of the stream are dirt and clay. Only a small portion of the receiving stream contains what could be characterized as having rock slabs.
    - Depth –The majority of the creek along the discharge route has well defined steep banks with deep areas. Only a small portion of the receiving stream is properly characterized as shallow.
    - Water clarity – The water in the stream is not clear. It is very turbid in the areas where ponding occurs and most of the stream has tannic discoloration.
    - Observation (Sensitivity to growth of aquatic vegetation) – The characteristics related to presence or absence of aquatic vegetation was not rated by TCEQ. However, at the confluence of Mankins Branch with the unnamed tributary that receives the discharge from the City of Georgetown Dove Spring Wastewater Treatment Facility (TPDES Permit No. WQ0010489003) no algae or presence of aquatic vegetation that would be an indication of sensitivity to growth was observed. See photographs 9 and 10. Accordingly, the characteristics relating to presence or absence of aquatic vegetation should have been rated, consistent with the existing conditions.
    - Consistency – Similar permits of this size and receiving stream characteristics do not have a total phosphorus limit of 0.5 mg/L. In fact, the City of Georgetown, which discharges to an unnamed tributary to Mankins Branch and is permitted with an annual average flow not to exceed 2.5 MGD (more than 10x the discharge of the pending permit) does not have a limit. It has a reporting requirement for total phosphorus and a City system-wide annual average total mass loading limit. The average daily discharge of total phosphorus from the Dove Spring Wastewater Treatment Facility during the period of 1/1/2020 through 11/30/21 is 3.75 mg/L.

    Based on the characteristics of the stream as observed and document by PECI, a total phosphorus limit in the permit is not warranted.
14. The portion of the NORI has been reviewed. The word “intermittent” is misspelled in the third sentence of the second paragraph.

If you have questions about the information presented or require additional information, please contact me at (512) 735-1001.

Sincerely,

Janet Sims
Senior Project Manager
Perkins Engineering Consultants, Inc.,
A MEAD & HUNT Company

Attachment

cc: Louis Mertz, R040062, LP
Eli Dragon, R040062, LP

Photograph 1

Photograph 2

Photograph 3

Photograph 4

Photograph 5

Photograph 6

Photograph 7

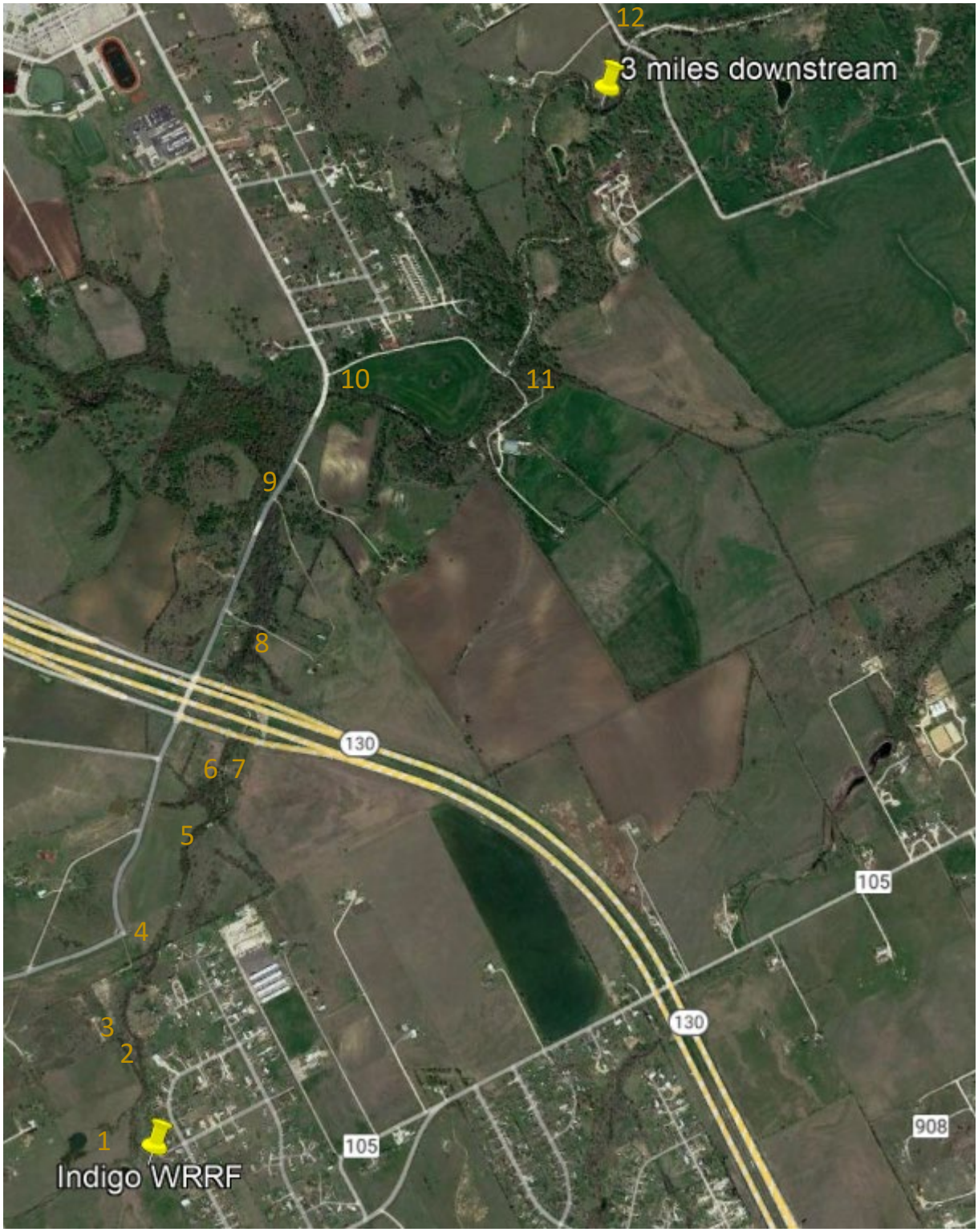
Photograph 8

Photograph 9

Photograph 10

Photograph 11

Photograph 12



R0040026, L.P. – Indigo Water Resource Recovery Facility
TPDES Permit No. WQ0016008001
Photograph Location Map

From:	Janet Sims
To:	Sonia Bhuiya; Firoj Vahora
Cc:	Rahul Jain
Subject:	R040062 LP, Proposed TPDES Permit No. WQ0016008001- Application correction
Date:	Wednesday, September 7, 2022 8:09:46 AM
Attachments:	WQ0016008001 Technical Report Rev Sept 6 2022 p 2.pdf WQ0016008001 Att G - Flow Diagram Rev Sept 6 2022.pdf

Sonia,
It has come to my attention that there is an inconsistency in the permit application for R040062 LP.
The description of the treatment process is not correct.
The proposed plant is a conventional activated sludge process with nitrification plant.
It will not be an extended aeration plant.

Attached are revisions to the permit application (Technical Report, Section 2a, page 2) and the flow schematic (Attachment G) that reflect the correct treatment process.
The design calculations that were submitted on June 6, 2021 are based on the conventional mode.
Therefore, no revisions are submitted for Attachment L.

Revisions to the Fact Sheet to accurately describe the treatment process are requested.
Please revise the first sentence of the Project Description and Location sections to read as follows:

> The Indigo Water Resource Recovery Facility will be an activated sludge process with nitrification plant operated in the conventional ~~extended aeration~~ mode.

If you have questions about the information presented in this email, please do not hesitate to contact me.

Sincerely,

Janet Sims

JANET SIMS
SENIOR PROJECT MANAGER, WATER/WASTEWATER
Mead & Hunt
Direct: 512-735-1001 | Cell: 512-695-2468 | Transfer Files
meadhunt.com | LinkedIn | Twitter | Facebook | Instagram

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:

The proposed Indigo Water Resource Recovery Facility is an activated sludge with nitrification process plant operated in the conventional mode. The treatment processes for the Interim phase are as follows: Raw wastewater will be pumped into an aeration basin for secondary biological treatment. The secondary treated wastewater will flow into a clarifier for clarification. Then the clarified water will flow into a chlorine contact chamber for disinfection prior to discharge. Activated sludge will be returned from the clarifier to the aeration basin(s) or wasted to an aerated sludge holding tank. The treatment processes will be the same for the Final phases.

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

B. Treatment Units

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

Table 1.0(1) – Treatment Units

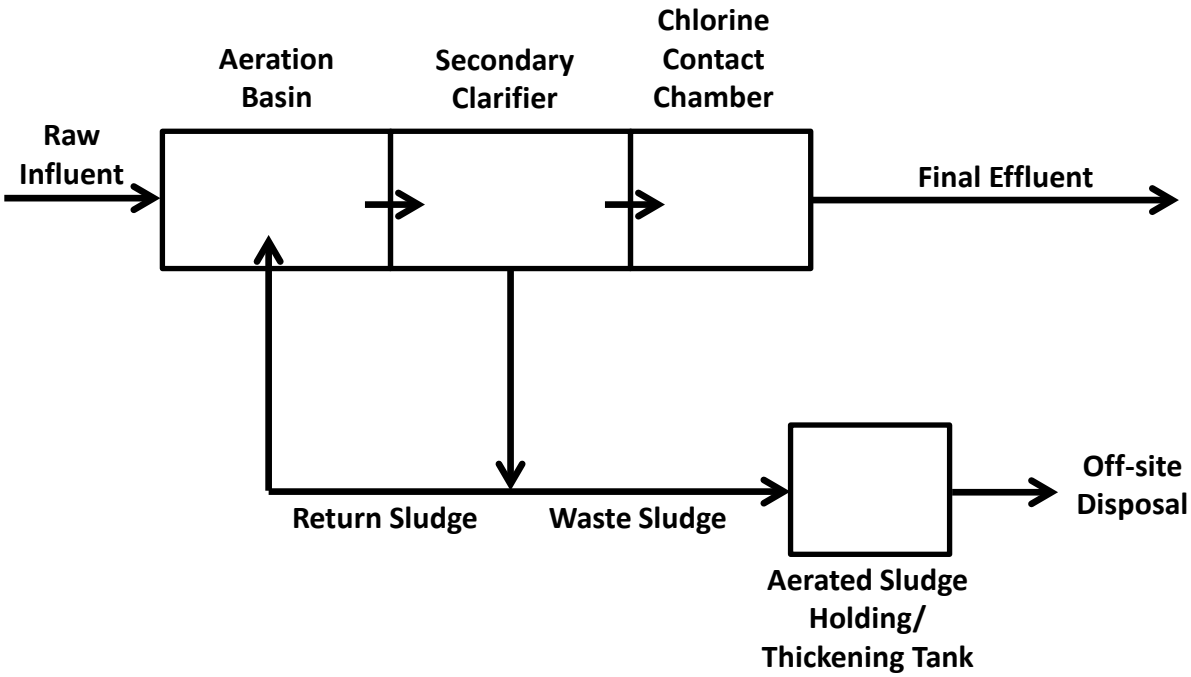
Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment F.		

C. Process flow diagrams

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

Attachment: **G**

ACTIVATED SLUDGE



ATTACHMENT G
R040062 LP- INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PROCESS FLOW DIAGRAM

Note: Interim I Phase Shown; Final Phase is expected to be Similar and Parallel to Interim Phase

R040062 LP

Indigo Water Resource Recovery Facility

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR NEW

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

June 2021

PERKINS ENGINEERING CONSULTANTS, INC.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: **R040062, LP**

PERMIT NUMBER: Click here to enter text

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

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

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 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☒	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: Click here to enter text

Check/Money Order Amount: Click here to enter text

Name Printed on Check: Click here to enter text

EPAY Voucher Number: **515528, 515529**

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES ☐ New TLAP

☐ Major Amendment *with* Renewal ☐ Minor Amendment *with* Renewal

☐ Major Amendment *without* Renewal ☐ Minor Amendment *without* Renewal

☐ Renewal without changes ☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: Click here to enter text.

For existing permits:

Permit Number: WQ00**N/A**

EPA I.D. (TPDES only): TX**N/A**

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	515528
Trace Number:	582EA000435993
Date:	06/07/2021 04:07 PM
Payment Method:	CC - Authorization 000007126C
Voucher Amount:	$800.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor:	TODD TEN HAVE
Actor Email:	accounting@scipioventures.com
IP:	104.55.68.81

Payment Contact Information

Name:	LOUIS MERTZ
Company:	R040062 LP
Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056
Phone:	832-844-5114

Site Information

Site Name:	INDIGO WATER RESOURCE RECOVERY FACILITY
Site Location:	WEST END OF MADISON DRIVE APPROXIMATELY 5 500 FEET WEST OF THE TX 130 TOLL ROAD

Customer Information

Customer Name:	R040062 LP
Customer Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056

Close

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	515529
Trace Number:	582EA000435993
Date:	06/07/2021 04:07 PM
Payment Method:	CC - Authorization 000007126C
Voucher Amount:	$50.00
Fee Type:	30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor:	TODD TEN HAVE
Actor Email:	accounting@scipioventures.com
IP:	104.55.68.81

Payment Contact Information

Name:	LOUIS MERTZ
Company:	R040062 LP
Address:	5599 SAN FELIPE ST STE 565, HOUSTON, TX 77056
Phone:	832-844-5114

Close

Expiration Date: **N/A**

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

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

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

R040062, LP

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

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

CN: Click here to enter text

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: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: **Manager**

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: Click here to enter text

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): Click here to enter text

First and Last Name: Click here to enter text

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Click here to enter text

Provide a brief description of the need for a co-permittee: Click here to enter text.

C. Core Data Form

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

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: **Janet Sims**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Sr. Project Manager**

Organization Name: **Perkins Engineering Consultants, Inc.**

Mailing Address: **13740 N. Highway 183, Unit L-6**

City, State, Zip Code: **Austin, TX 78750**

Phone No.: **(512) 735-1001** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **jsims@perkinsconsultants.com**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Manager**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **lmertz@scipioventures.com**

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: **Todd Ten Have**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Controller**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 844-5114** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **ttenhave@scipioventures.com**

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

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.com**

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **edragon@scipioventures.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: **Eli Dragon**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Principal**

Organization Name: **R040062, LP**

Phone No.: **(832) 487-0576** Ext.: Click here to enter text.

E-mail: **edragon@scipioventures.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: **Georgetown Public Library**

Location within the building: **Reference Desk**

Physical Address of Building: **402 W. 8th Street**

City: **Georgetown** County: **Williamson**

Contact Name: **Ann Evans**

Phone No.: **(512) 930-3551** Ext.: Click here to enter text.

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. **RNN/A**

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):

Indigo Water Resource Recovery Facility

C. Owner of treatment facility: **R040062, LP**

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: **R040062, LP**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** E-mail Address: **lmertz@scipioventures.com**

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: N/A

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Click here to enter text

Mailing Address: Click here to enter text

City, State, Zip Code: Click here to enter text

Phone No.: Click here to enter text E-mail Address: Click here to enter text

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): N/A

Prefix (Mr., Ms., Miss): Click here to enter text.

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, Zip Code: Click here to enter text.

Phone No.: Click here to enter text. E-mail Address: Click here to enter text.

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 **New Permit**

If **no**, **or a new permit application**, please give an accurate description:

The water resource recovery facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way in Williamson County.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No **New Permit**

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:

The discharge is to an unnamed tributary of Mankins Branch, thence to Mankins Branch, thence to San Gabriel/North Fork San Gabriel in Segment No. 1248 of the Brazos River Basin.

City nearest the outfall(s): **Georgetown**

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

Outfall Latitude: **30.60811** Longitude: **-97.61960**

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.

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.

N/A

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No N/A

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Click here to enter text.

B. City nearest the disposal site: Click here to enter text.

C. County in which the disposal site is located: Click here to enter text.

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

E. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

Click here to enter text.

F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Click here to enter text.

Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit

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

Click here to enter text.

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:

Click here to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click here to enter text. Amount past due: Click here to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click here to enter text. Amount past due: Click here to enter text.

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 **See Attachment B.**
- 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: Click here to enter text.

A. Core Data Form
B. USGS Map
C. Affected Landowners Information
D. Original Photographs
E. Buffer Zone Map
F. Treatment Units
G. Process Flow Diagram
H. Site Drawing
I. Justification for Permit
J. Nearby Collection Systems and Analysis of Expenditures
K. Design Calculations and Plant Features
L. Wind Rose
M. Sewage Sludge Solids Management Plan

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: [redacted]

Applicant: **R040062, LP**

Certification:

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

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

Signatory name (typed or printed): **Louis Mertz**

Signatory title: **Manager**

Signature: Louis M (Use blue ink) Date: 6/2/2021

Subscribed and Sworn to before me by the said Louis Mertz

on this 2nd day of June, 2021.

My commission expires on the 26th day of August, 2024.

Todd Ten Have

Notary Public

TODD TEN HAVE
Notary Public, State of Texas
Comm. Expires 08-26-2024
Notary ID 132643914

[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: **See Attachment C.**

- ☒ 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 County Appraisal District**

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

☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Click here to enter text.

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided. **See Attachment D.**

- ☒ 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. **See Attachment E.**

- 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

Supplemental Permit Information Form

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: **R040062, LP**

Permit No. WQ00 **N/A** EPA ID No. TX **N/A**

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

The facility is located off the west end of Madison Drive approximately 1,500 feet northwest of the intersection of County Road 105 and Jacobs Way.

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: **Louis Mertz**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Manager**

Mailing Address: **5599 San Felipe St, Suite 565**

City, State, Zip Code: **Houston, TX 77056**

Phone No.: **(832) 485-1907** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **lmertz@scipioventures.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.

The property is not publicly owned.

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.

The discharge is to an unnamed tributary of Mankins Branch, thence to Mankins Branch, thence to San Gabriel/North Fork San Gabriel in Segment No. 1248 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). **See SPIF-1 and SPIF-2.**

Provide original photographs of any structures 50 years or older on the property. **None**

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 **Area with agricultural vegetation will be developed. No wetland area will be disturbed.**

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

The estimated depth of excavation is 15 to 20 feet for an 8-foot diameter lift station wet well. Treatment plant facilities will be above-grade. Some subgrade compaction may be needed following receipt of geotechnical report, but excavation will generally be limited to the lift station, piping connecting treatment units, shallow buried electrical duct banks, and the outfall pipe. There are no known caves.

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

The land is currently a cleared pasture area used for agricultural purposes.

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:

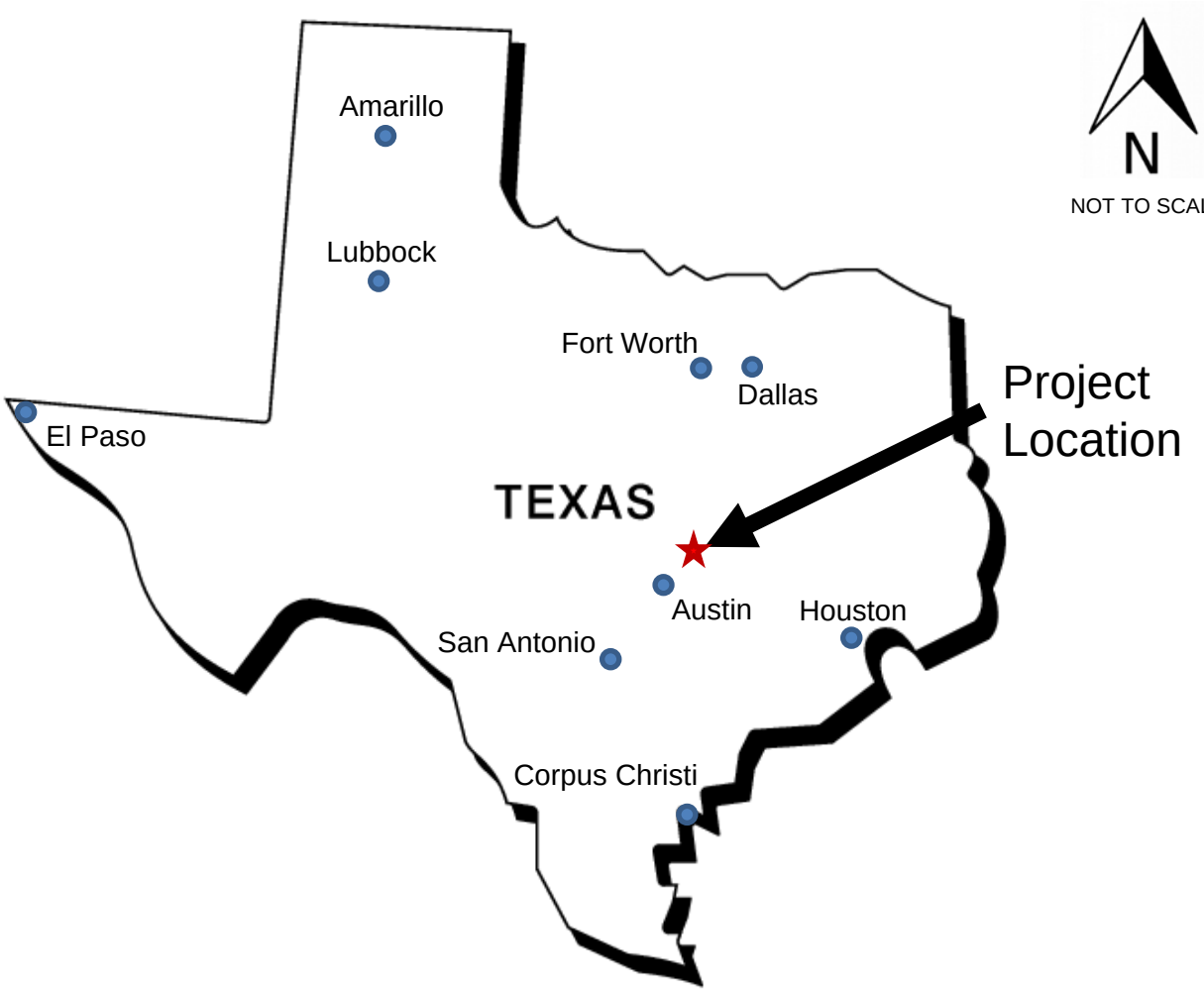
There are no buildings or structures on the property.

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

The property has been used for agricultural purposes, and there are not buildings or structures on the property.

Supplemental Permit Information Form

- **SPIF-1 General Location Map**
- **SPIF-2 USGS Map**



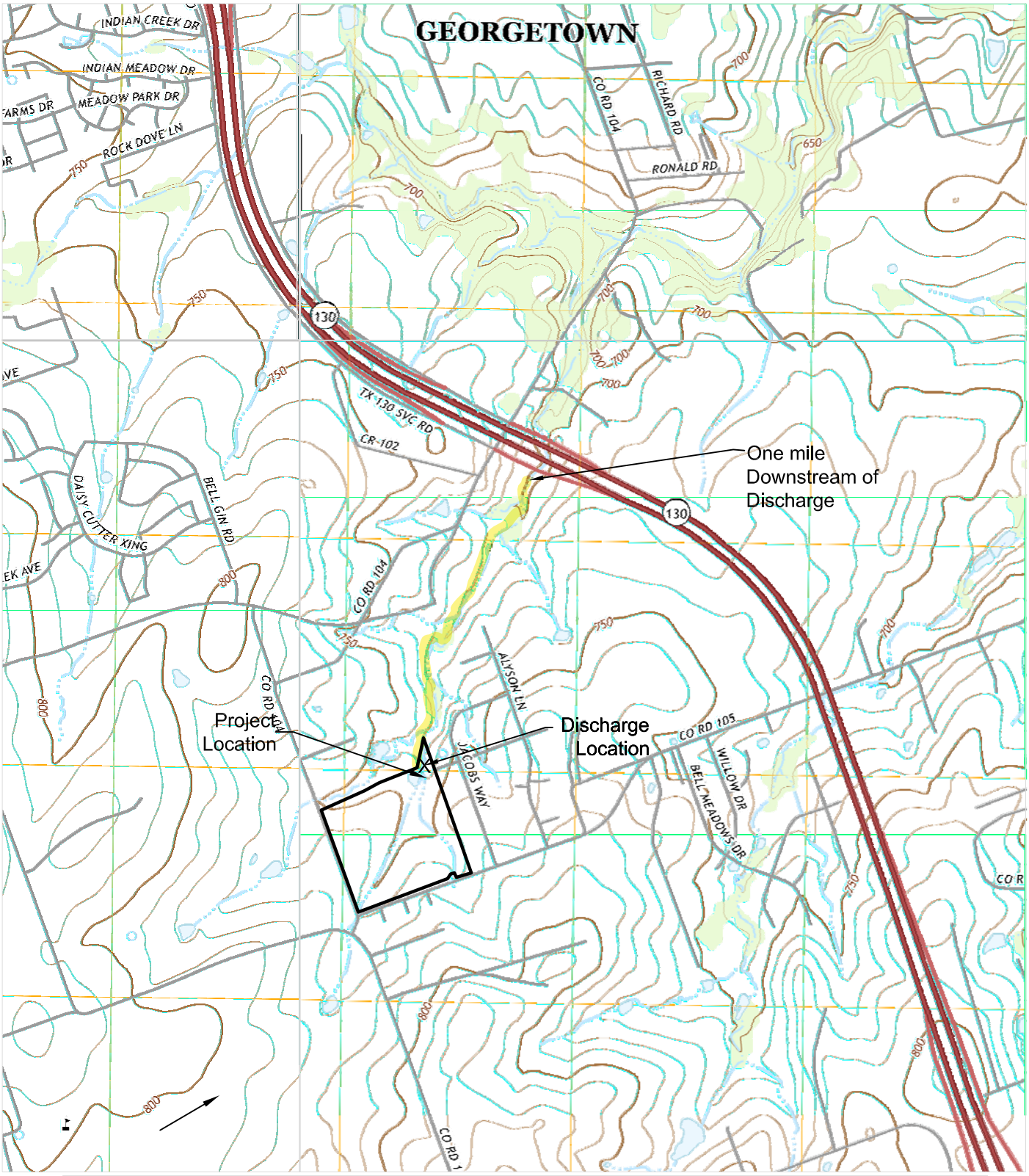
SPIF-1
R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
GENERAL LOCATION MAP

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1

MILE
SCALE 1:24000



SPIF- 2
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

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): **0.075**

2-Hr Peak Flow (MGD): **0.300**

Estimated construction start date: **September 2022**

Estimated waste disposal start date: **July 2023**

B. Interim II Phase

Design Flow (MGD): **N/A**

2-Hr Peak Flow (MGD): Click here to enter text

Estimated construction start date: Click here to enter text

Estimated waste disposal start date: Click here to enter text

C. Final Phase

Design Flow (MGD): **0.200**

2-Hr Peak Flow (MGD): **0.800**

Estimated construction start date: **June 2024**

Estimated waste disposal start date: **March 2025**

D. Current operating phase: N/A

Provide the startup date of the facility: **N/A**

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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

The proposed Indigo Water Resource Recovery Facility is an activated sludge with nitrification process plant operated in the extended aeration mode. The treatment processes for the Interim phase are as follows: Raw wastewater will be pumped into an aeration basin for secondary biological treatment. The secondary treated wastewater will flow into a clarifier for clarification. Then the clarified water will flow into a chlorine contact chamber for disinfection prior to discharge. Activated sludge will be returned from the clarifier to the aeration basin(s) or wasted to an aerated sludge holding tank. The treatment processes will be the same for the Final phases.

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

B. Treatment Units

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

Table 1.0(1) – Treatment Units

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

C. Process flow diagrams

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

Attachment: **G**

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: **H**

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

The area served will be the proposed development and adjacent property outside of the City of Georgetown.

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.

Click here to enter text

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.

Click here to enter text.

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 ☐ **N/A**

If yes, provide the date(s) of approval for each phase: Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 ☐ **N/A**

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

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 Click here to enter text. or TXRNE Click here to enter text.

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:

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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.

Click here to enter text.

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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

N/A

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.

N/A

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). W***ater 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					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml)					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/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: **Inframark LLC**

Facility Operator's License Classification and Level: **WWOL**

Facility Operator's License Number: **OC0000232**

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. **See Attachment I.**

☐ Other:

B. Sludge disposal site

Disposal site name: **Austin Wastewater Processing Facility**

TCEQ permit or registration number: **MSW 2384**

County where disposal site is located: **Travis**

C. Sludge transportation method

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

Name of the hauler: **WasteWater Transportation Services**

Hauler registration number: **24343**

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: Click here to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.
- Federal Emergency Management Map:

  Attachment: Click here to enter text.
- Site map:

  Attachment: Click here to enter text.

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: Click here to enter text.

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:

Click here to enter text.

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: Click here to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click here to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click here to enter text.

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click here to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click here to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click here to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

Yes ☐ No ☐

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

Click here to enter text.

D. Site development plan

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

lagoon(s):

Click here to enter text

Attach the following documents to the application.

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

  Attachment: Click here to enter text

- Copy of the closure plan

  Attachment: Click here to enter text

- Copy of deed recordation for the site

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here to enter text

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: Click here to enter text

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:

N/A

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:

N/A

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: **N/A**

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: **Louis Mertz**

Title: **Manager**

Signature: _____

Date: 6/2/2021

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 J.

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: **N/A**

If yes, attach correspondence from the city.

Attachment: **N/A**

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: **N/A**

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: **N/A**

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: **K.1**

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

Attachment: **K.2**

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: **K.3**

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): **N/A**

Average Influent Organic Strength or BOD_5 Concentration in mg/l: **N/A**

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

Provide the source of the average organic strength or BOD_5 concentration.

N/A

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) Interim I/Final	Influent BOD_5 Concentration (mg/l)
Municipality		
Subdivision	**0.075/0.2**	**300**
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park,		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	**0.075/0.2**	
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: Click here to enter text.

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** minutes detention time at peak flow

Dechlorination process: **N/A**

☐ Ultraviolet Light: Click here to enter text. seconds contact time at peak flow

☐ Other: Click here to enter text.

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: L

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.

Click here to enter text.

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

The current FEMA Flood Insurance Rate Map, panel 48491C0505F, with an effective date of 12/19/2019.

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: Click here to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click here to enter text.

B. Wind rose

Attach a wind rose. **Attachment**: **M**

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: N/A

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: N/A

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

Attach a solids management plan to the application.

Attachment: N

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: **N/A**

Distance and direction to the intake: **N/A**

Attach a USGS map that identifies the location of the intake.

Attachment: **N/A**

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: Click here to enter text.

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).

Click here to enter text.

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).

Click here to enter text

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: Click here to enter text

Average depth of the entire water body, in feet: Click here to enter text

Average depth of water body within a 500-foot radius of discharge point, in feet: Click here to enter text

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

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: **Aerial photograph**

C. Downstream perennial confluences

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

Mankins Branch

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.

N/A

E. Normal dry weather characteristics

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

The channel for the proposed outfall location was covered with thick grass vegetation. No water observed.

Date and time of observation: **5/13/2021 @ 12:30 pm**

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.

☐ Oil field activities
☐ Urban runoff
☐ Upstream discharges
☒ Agricultural runoff
☐ Septic tanks
☐ Other(s), specify Click here to enter text

B. Waterbody uses

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

☒ Livestock watering
☐ Contact recreation
☐ Irrigation withdrawal
☒ Non-contact recreation
☐ Fishing
☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☐ Other(s), specify Click here to enter text.

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

R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

ATTACHMENT	REFERENCE
A. Core Data Form	Admin Report 1.0, Section 3.C
B. USGS Map	Admin Report 1.0, Section 13
C. Affected Landowner Information	Admin Report 1.1, Section 1
D. Original Photographs	Admin Report 1.1, Section 2
E. Buffer Zone Map	Admin Report 1.1, Section 3
F. Treatment Units	Tech Report 1.0, Section 2.B
G. Process Flow Diagram	Tech Report 1.0, Section 2.C
H. Site Drawing	Tech Report 1.0, Section 3
I. Sludge Acceptance Agreement	Tech Report 1.0, Section 9.A
J. Justification for Permit	Tech Report 1.1, Section 1.A
K. Nearby Collection System and Analysis of Expenditures	Tech Report 1.1, Section 1.B.3
L. Design Calculation and Plant Features	Tech Report 1.1, Section 4
M. Windrose	Tech Report 1.1, Section 5.B
N. Sewage Sludge Solids Management Plan	Tech Report 1.1, Section 7

Attachment A

Core Data Form

Admin Report 1.0, Section 3.C

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

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

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

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)

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

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

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

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

R040062 LP

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
803969672	32078183665		

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees: ☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated? ☒ Yes ☐ No

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

☐ Owner ☐ Operator ☒ Owner & Operator

☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address: 5599 San Felipe St., Suite 565

City	Houston	State	TX	ZIP	77056	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(832) 485-1907		( ) -

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)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ 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.)*

Indigo Water Resource Recovery Facility

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	The facility is located off the west end of Madison Drive approximately 5,500 feet west of the TX 130 Toll Road overpass to CR 105.

26. Nearest City	**State**	**Nearest ZIP Code**
Georgetown	TX	78626

27. Latitude (N) In Decimal:	30.60798	**28. Longitude (W) In Decimal:**	97.61900

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	36	28.73	-97	37	8.41

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)
6552		237210	

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

Real estate developer

34. Mailing Address:	5599 San Felipe St, Suite 565						
	City	Houston	**State**	TX	**ZIP**	77027	**ZIP + 4**

35. E-Mail Address:	lmertz@scipioventures.com

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(832) 485-1907		( ) -

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

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

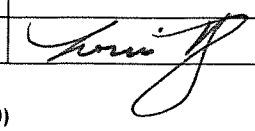
SECTION IV: Preparer Information

40. Name:	Janet Sims	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 734-1001		( ) -	jsims@perkinsconsultants.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:	R040062 LP	**Job Title:**	Manager
Name *(In Print):*	Louis Mertz	**Phone:**	(832) 485- 1907
Signature:		**Date:**	6/2/2021

Attachment B

USGS Map

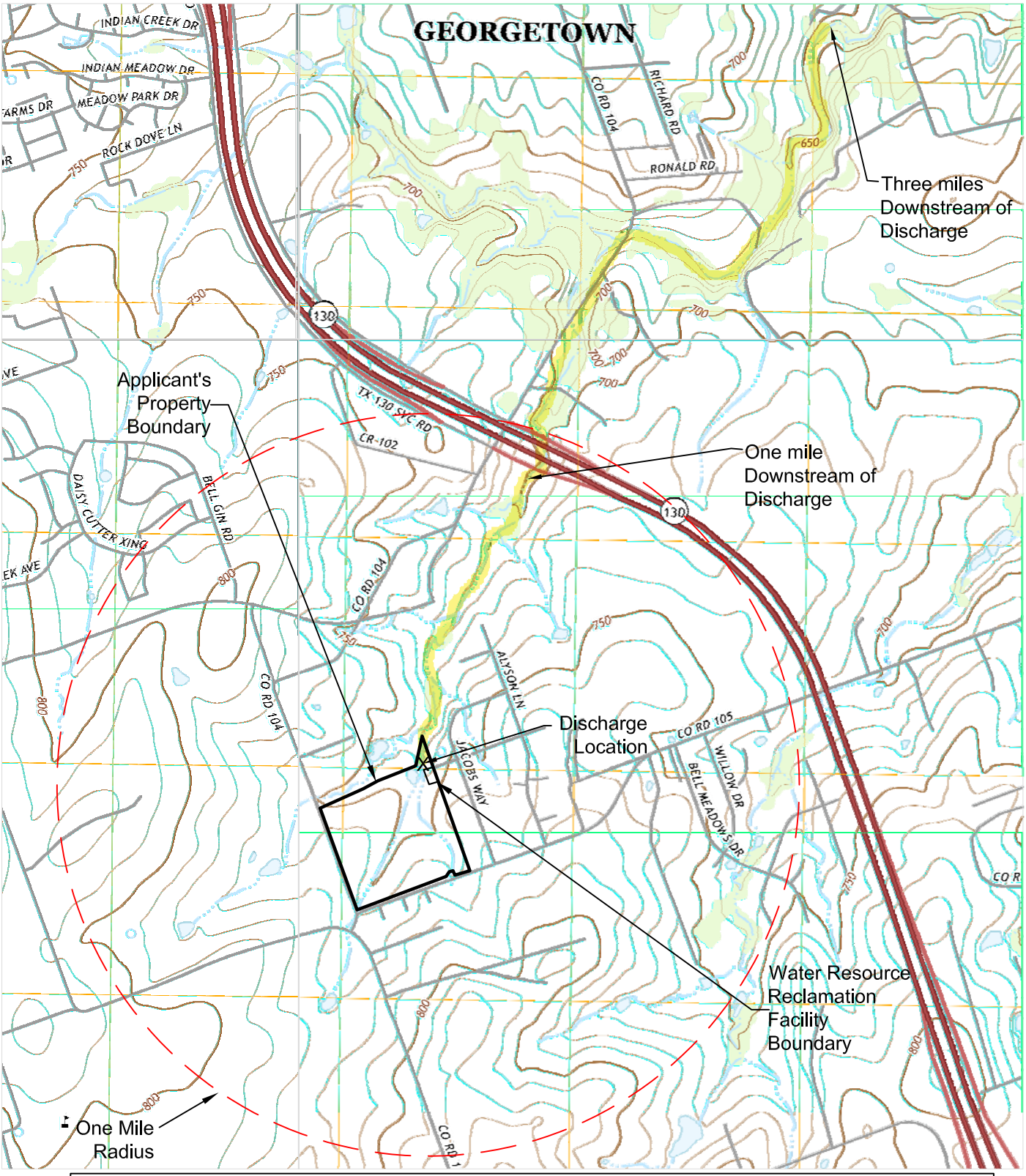
Admin Report 1.0, Section 13

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1

MILE
SCALE 1:24000



ATTACHMENT B
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

Attachment C

Affected Landowner Information

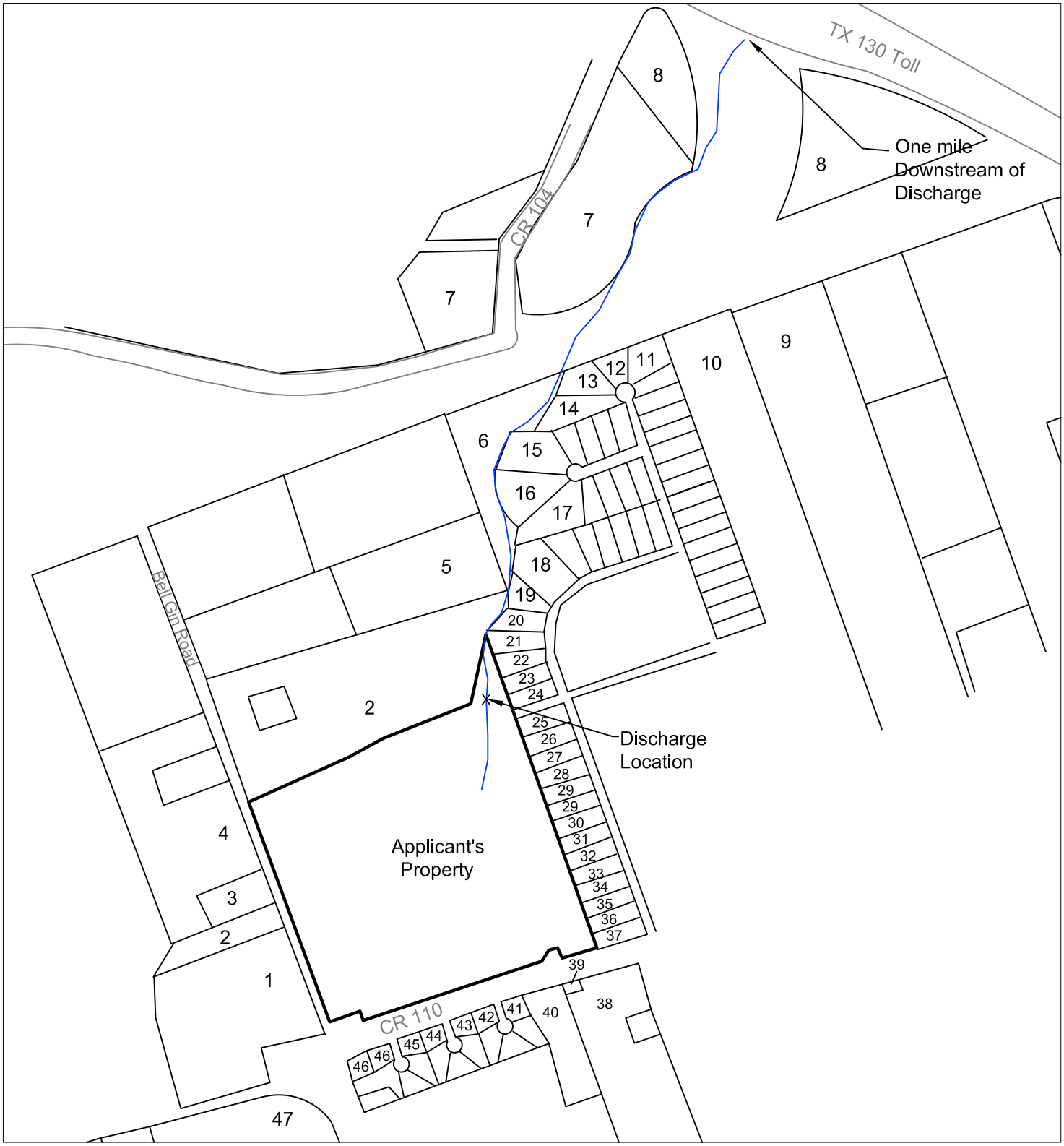
Tech Report 1.1, Section 1

PERKINS
ENGINEERING
CONSULTANTS,INC.

N

0 1000 ft.

SCALE
1 inch = 1,000 feet



ATTACHMENT C.1
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
AFFECTED LANDOWNER MAP

ATTACHMENT C.2
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
AFFECTED LANDOWNER LIST

1 MYRA L VALENTA
3801 COUNTY ROAD 110
GEORGETOWN, TX 78626

2 JIMMY C WEBB
2929 BELL GIN RD
GEORGETOWN, TX 78626-7428

3 KENT E. WEBB
3100 BELL GIN RD
GEORGETOWN, TX 78626-7402

4 JIM & VIRGINIA WEBB
2929 BELL GIN RD
GEORGETOWN, TX 78626-7428

5 EQUITY TRUST DBA STERLING TRUST
408 RIVER CHASE BLVD
GEORGETOWN, TX 78628

6 JOSHUA L RICHARDS
PO BOX 1366
TAYLOR, TX 76574-6366

7 EMMA L LAWHON FAMILY LAND PARTNERSHIP
2200 PATRIOT WAY
GEORGETOWN, TX 78626-7421

8 RIVER CITY PARTNERS LTD
501 E KOENIG LN
AUSTIN, TX 7875

9 RICHARD A & KAREN T SLIVA
717 COUNTY ROAD 105
HUTTO, TX 78634-3013

10 LARRY J & RHONDA G REID
707 COUNTY ROAD 105
HUTTO, TX 78634-3013

11 LORIS TRAN & TRUNG NGUYEN
2801 W 45TH ST
AUSTIN, TX 78731

12 UNKNOWN

13 DOMINGO GRANADOS
337 ALYSON LN
HUTTO, TX 78634-3051

14 KRISTI SWANN
6106 GLEN MEADOW DR
AUSTIN, TX 78745-4143

15 TALON R RICHARDS
PO BOX 1366
TAYLOR, TX 76574

16 CARLOS E CASAS & ALBERTO R DE CASA
520 OLIVIA CT
HUTTO, TX 78634-3064

17 DONALD RAY ROBBINS
P.O. BOX 1088
GEORGETOWN, TX 78627-1088

18 ALEX CIFUENTES
223 JACOBS WAY
HUTTO, TX 78634

19 RADY RICHARD Z & AGATHA O CO TRS RADY FAMILY TRUST
13276 RESEARCH BLVD #105
AUSTIN, TX 78750-3225

20 HILARIO & MARIA A VELAZQUEZ
215 JACOBS WAY
HUTTO, TX 78634-3045

21 SHAWN & ENA BICHSEL
211 JACOBS WAY
HUTTO, TX 78634

22 JOSE & ESMERALDA ARREOLA
209 JACOBS WAY
HUTTO, TX 78634

23 LORENZO & MINERVA VELAZQUEZ RENOJ
205 JACOBS WAY
HUTTO, TX 78634

24 VENANCIO SUAREZ FLORES
300 ALYSON LN
HUTTO, TX 78634

25 PAULINA DE LUNA
153 JACOBS WAY
HUTTO, TX 78634

26 MISAEL HERNANDEZ & TOMASA CHAVEZ & RENE VEGA ALVAREZ & CECILIA HERNANDEZ CHAVEZ
149 JACOBS WAY
HUTTO, TX 78634

27 VICENTE & ANAGELICA T MACIAS
145 JACOBS WAY
HUTTO, TX 78634

28 QUAN P VO
19841 COCHRANE WAY
GAITHERSBURG, MD 20879

29 NATHAN MENDEZ & TRAM VO
137 JACOBS WAY
HUTTO, TX 78634-3021

30 JOSE FELIX & JOSE MEJIA HERNANDEZ
129 JACOBS WAY
HUTTO, TX 78634-3019

31 JOHN PIONTKOWSKI
125 JACOBS WAY
HUTTO, TX 78634-3019

32 LENARD C & GARNETTA D SMITH
121 JACOBS WAY
HUTTO, TX 78634-3019

33 WILEY R HENNIG
117 JACOBS WAY
HUTTO, TX 78634-3019

34 REX NOWLIN
113 JACOBS WAY
HUTTO, TX 78634

35 ESTHER SALAZAR
109 JACOBS WAY
HUTTO, TX 78634

36 MARILYN A SOTER (TOD) TO CLAUDIA NEWMAN
4125 EAST PIKE
ZANESVILLE, OH 43701-8426

37 ANDREW L & MAEDELLE T
101 JACOBS WAY
HUTTO, TX 78634

38 HOMER R THOMAS
350 COUNTY ROAD 105
GEORGETOWN, TX 78626-7426

39 JACK & DIANNE MOORE
% HOMER THOMAS 350 COUNTY ROAD 105
GEORGETOWN, TX 78626-7426

40 ARCANGELS INVESTMENTS LLC
501 LONE STAR DR
CEDAR PARK, TX 78613

41 GREGORY J & MARY D FREDERICK
101 BRIAN CIR
GEORGETOWN, TX 78626-9607

42 THOMAS BROWNFIELD
102 BRIAN CIR
GEORGETOWN, TX 78626-9607

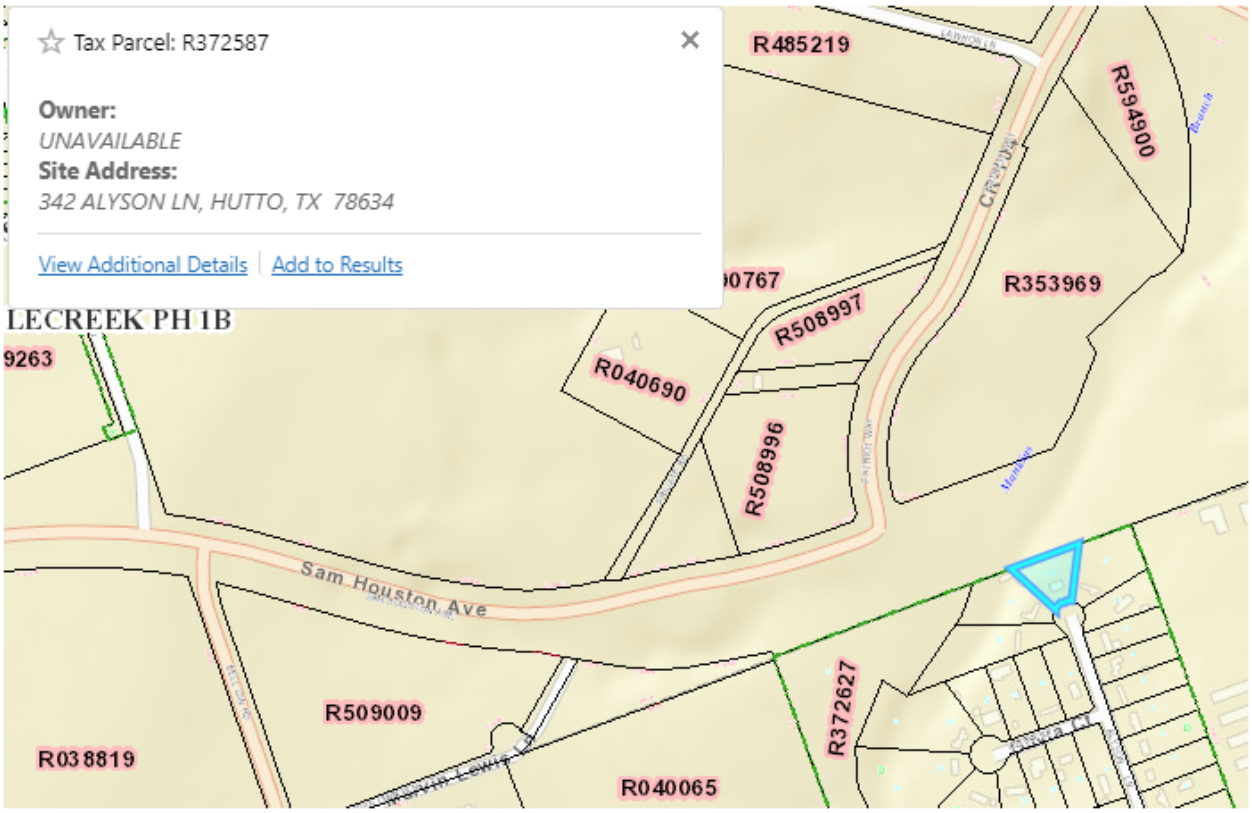
43 ELIZABETH RAMSEY DRISCOLL
513 MALLORY CT
EL PASO, TX 79912-4228

44 DANIEL WISE
102 JENNIFER CIR
GEORGETOWN, TX 78626-9612

45 DONNA L MOORE
101 MELISSA CIR
GEORGETOWN, TX 78626-9606

46 ARCANGELS INVESTMENTS LLC
501 LONE STAR DR
CEDAR PARK, TX 78613

47 BERNARD S ANDERSON TR OF BERNARD &
GLADYS ANDERSON TRUST
16233 CAMERON RD
PFLUGERVILLE, TX 78660


Tax Parcel: R372587
Owner:
UNAVAILABLE
Site Address:
342 ALYSON LN, HUTTO, TX 78634
View Additional Details
Add to Results
R485219
R594900
R353969
R508997
R040690
R508996
Sam Houston Ave
R509009
R038819
R040065
R372627

Attachment D

Original Photographs

Admin Report 1.1, Section 2

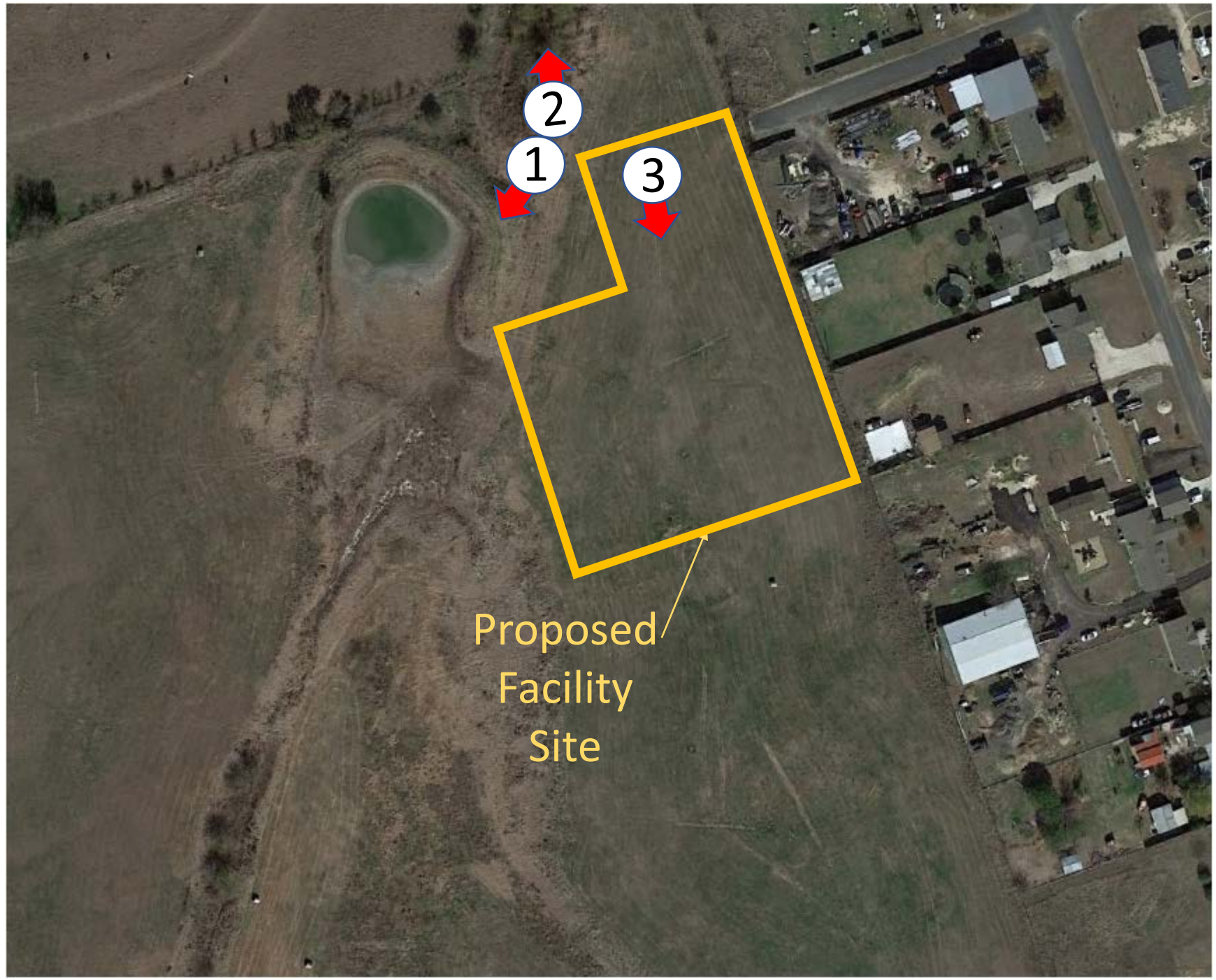
Photograph 1. – At outfall looking south, upstream.

Photograph 2. – At outfall looking north, downstream.

ATTACHMENT D.1
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPHS

Photograph 3. – Proposed site of facility, looking south.

ATTACHMENT D.2
R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPHS



N

NOT TO SCALE

2 Photograph Location

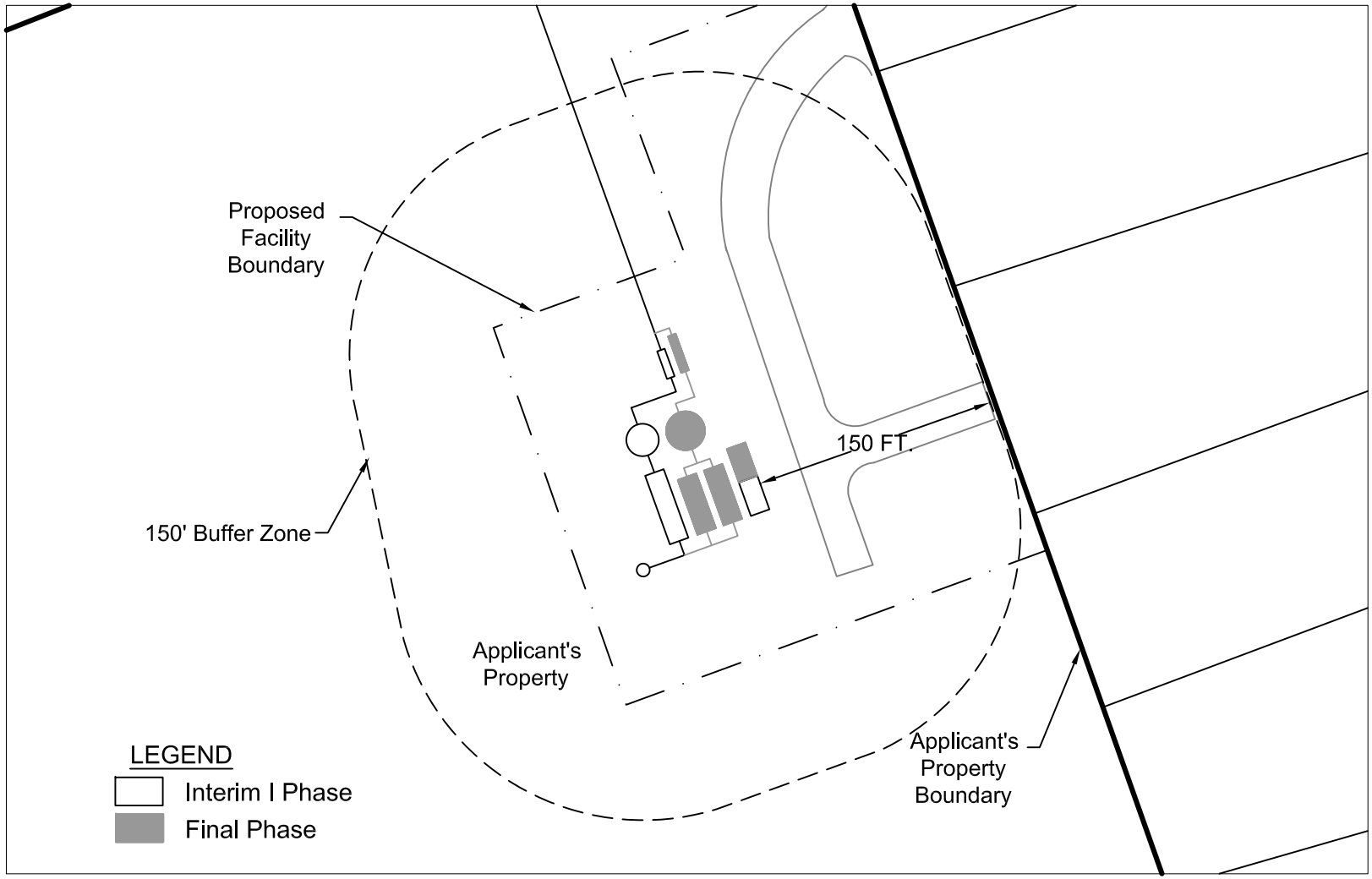
ATTACHMENT D.3
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PHOTOGRAPH LOCATION MAP

Attachment E

Buffer Zone Map

Admin Report 1.1, Section 3

PERKINS
ENGINEERING
CONSULTANTS,INC.



ATTACHMENT E
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATIO N
BUFFER ZONE MAP

Attachment F

Treatment Units

Tech Report 1.0, Section 2.B

ATTACHMENT F
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
TREATMENT UNITS

Interim I Phase (0.075 MGD)

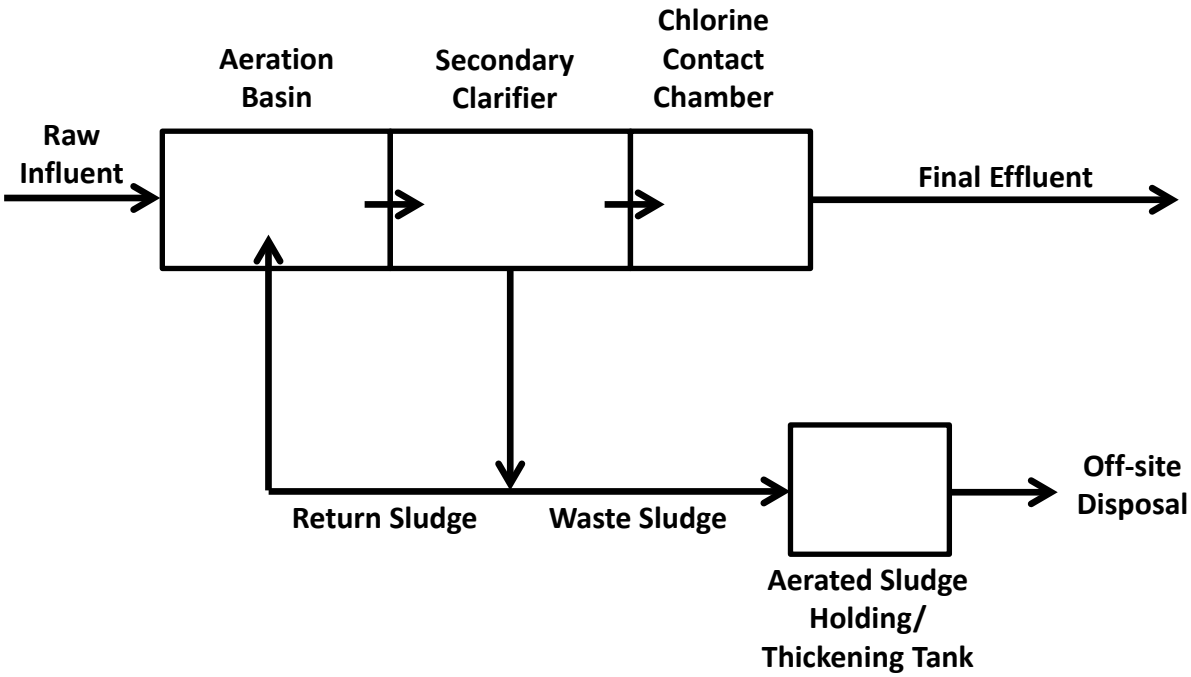
Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	1	45‘ x 12’ x 10.5’ SWD
Secondary Clarifier	1	20’ dia., 11’ SWD
Chlorine Basin	1	18‘ x 7’ x 5‘ SWD
Sludge Holding Tank	1	22.5’ x 12’ x 10.5’

Additions for Final Phase (0.200 MGD)

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	2	36‘ x 12’ x 10.5’ SWD
Secondary Clarifier	1	24’ dia., 11’ SWD
Chlorine Basin	1	24‘ x 8’ x 5‘ SWD
Sludge Holding Tank	1	22.5’ x 12’ x 10.5’

Attachment G
Process Flow Diagram
Tech Report 1.0, Section 2.C

ACTIVATED SLUDGE – EXTENDED AERATION PROCESS



ATTACHMENT G
R040062 LP- INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PROCESS FLOW DIAGRAM

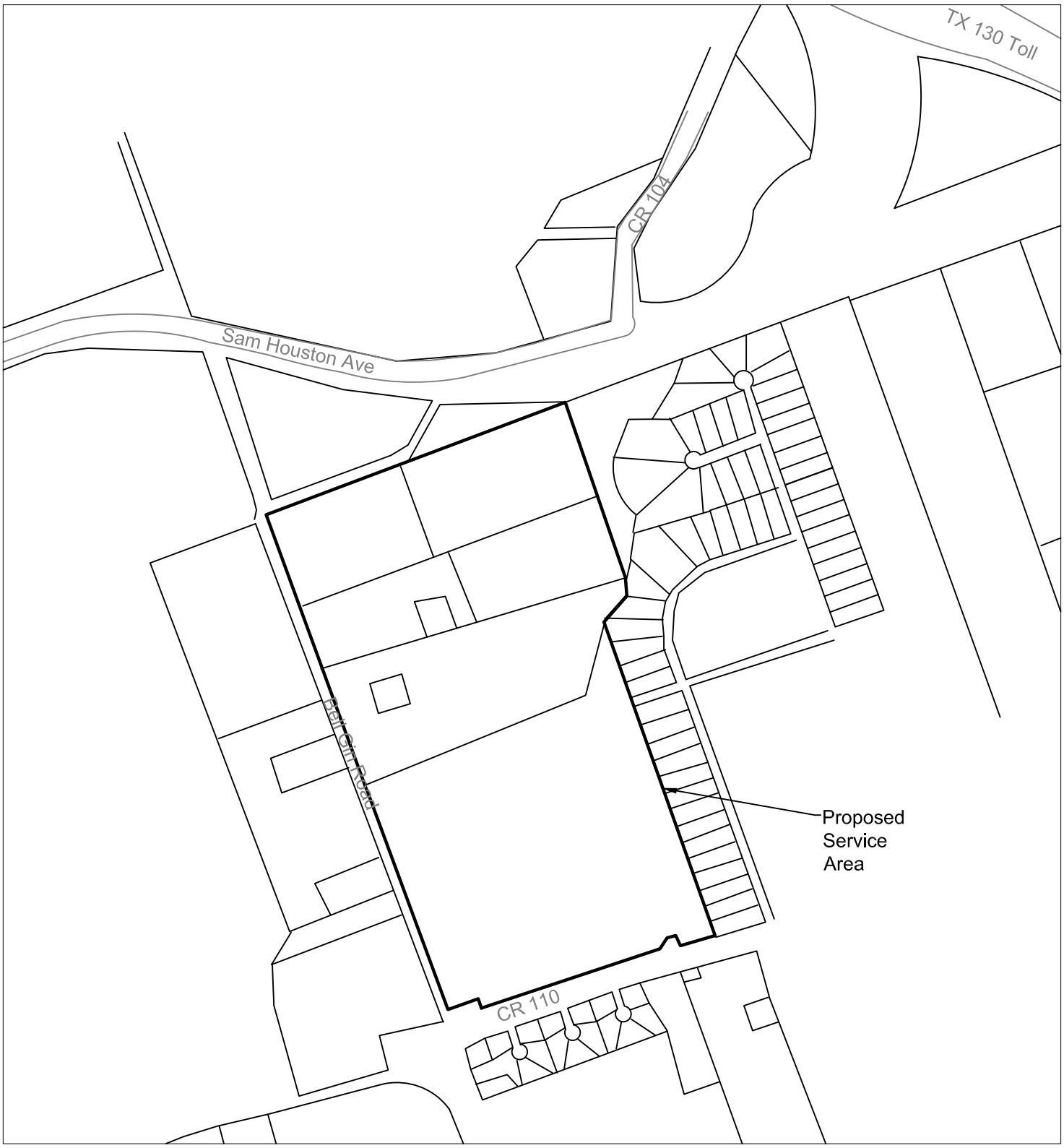
Note: Interim I Phase Shown; Final Phase is expected to be Similar and Parallel to Interim Phase

Attachment H

Site Drawing

Tech Report 1.0, Section 3

PERKINS
ENGINEERING
CONSULTANTS,INC.



ATTACHMENT H
R040062, LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
SITE DRAWING

Attachment I

Sludge Acceptance Agreement

Tech Report 1.0, Section 9.A

Austin Wastewater Processing Facility
826 Linger Ln
Austin, Texas 78721
(512) 973-8484

Waste Stream Acceptance

05/18/2021

Wastewater Residuals Management, LLC, an affiliate of Wastewater Transport Services, LLC, owns and operates the Austin Wastewater Processing Facility. This facility has been permitted by the TCEQ and assigned permit number MSW 2384. The disposal facility is expected to be open for at least the next 5 years.

The facility has been permitted as a Centralized Waste Treatment Facility able to revice to receive the following categorical and non-categorical waste streams:

- Wastewater Treatment Plant Sludge
- Water Treatment Plant Sludge
- Leachate
- Septic
- Sanitary Sewer
- Storm Water
- Food Service Grease
- Car Wash Grit Trap
- Other Class II Non-Hazardous Liquid Waste

***Please note that analytical may be required before the waste stream will be accepted.

Wastewater Residuals Management, LLC agrees to accept any of the above waste streams from the below listed generator.

Generator: R040062 LP

Identifying Info: Indigo Water Resource Recovery Facility - Wastewater Treatment Plant Sludge

Cory R. Juby
Environmental Compliance

Wastewater Residuals Management reserves the right to discontinue acceptance of the below mentioned waste at any time.

Attachment J

Justification for Permit

Tech Report 1.1, Section 1.A

ATTACHMENT J
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
JUSTIFICATION FOR PERMIT

Central Texas is a fast-growing area. The proposed subdivision is in Williamson County TX, outside the corporate limits of the City of Georgetown (City). The site currently does not have wastewater treatment service. In addition, the proposed subdivision is not in the area identified as the "future service area" that was evaluated in the City's 2018 wastewater master plan.

The construction of approximately 600 manufactured housing units will be completed within the next five years. The first phase of construction is for approximately 300 units to be completed within two years after receipt of the requested permit for the proposed Indigo WRRF.

The proposed WWRF that will be constructed in two phases is designed to provide services to the residential population that is expected to average 3 persons per unit. The wastewater generated by the residents is expected to be approximately 75 to 100 gallons per person per day. Therefore, the first phase of the requested permit is for 75,000 gallons per day. A Final phase is requested for 200,000 gallons per day to provide wastewater service to the remaining residents in the proposed service area.

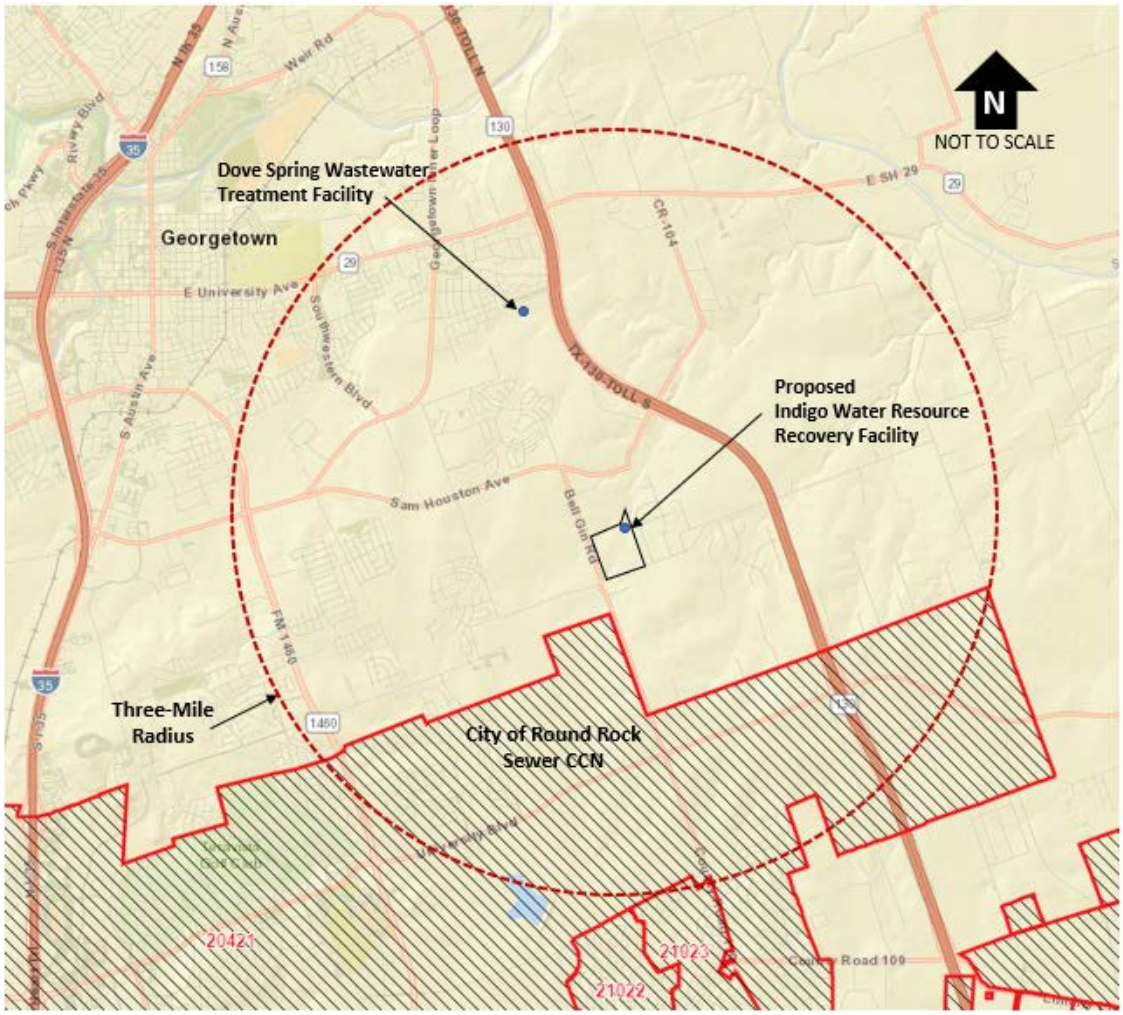
Attachment K
Nearby Collection System and
Analysis of Expenditures
Tech Report 1.1, Section 1.B.3

ATTACHMENT K.1
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
NEARBY TREATMENT SYSTEMS

The proposed Indigo Water Resource Recovery Facility (WRRF) for the R040062, LP subdivision lies within Williamson County. The subdivision will have approximately 600 manufactured homes. It is located outside the corporate boundaries of the City of Georgetown (City), but within the City's Extraterritorial Jurisdiction.

The proposed WWRF is located within three miles of the City of Round Rock sewer CCN and the City's Dove Springs Wastewater Treatment Plant (TPDES permit number WQ0010489003). The City of Round Rock does not have any nearby collection system pipes. Figure 1 is a map that presents the location of the proposed WRRF, the nearby Round Rock CCN boundary and the location of the Dove Springs Wastewater Treatment Facility.

Figure 1. Nearby Treatment Facilities Map



Beginning in December 2020, R040062, LP contacted the City concerning connection with their system. A certified letter requesting service, the City's response to the request, and various emails related to acquiring wastewater services are presented as Attachment K.2.

As described in the City's December 23, 2020 response to R040062 LP's Manager, Mr. Mertz, the City indicated that it would provide service for the proposed subdivision but the development must comply with various City requirements. In the preceding email communication between R040062, LP and the City, it also indicated that the proposed subdivision is not within the boundaries of the City's current wastewater master plan. According to the City, R040062 LP will be required to design the infrastructure extension, in accordance with City requirements, and pay for all construction necessary to extend the City's collection system to the proposed site. The City estimated R040062, LP's responsibility for collection system improvements to connect to the City alone would likely approach $10 million and categorized these costs as "relatively expensive up front."

In a pre-application meeting of May 20, 2021, the City further indicated that annexation would be required if the development must use City wastewater and stated that the submittal of an annexation application was among the development applications required for the proposed project. During this May 2021 meeting, the City also stated that R040062, LP's type of residential development – manufactured homes – was only permitted within the Manufactured Housing District which does not presently include Applicant's proposed site.

The analysis of expenditures required to connect to the City's collection system to the site and the comparative option to build an on-site treatment plant were developed. Potential time to complete each option and to have wastewater treatment services in place were also estimated. These cost and time estimates are presented in Attachment K.3.

Based on the cost comparison of the wastewater service options, obtaining service from the City could cost R040062, LP approximately $10 million more than constructing an on-site WRRF. If R040062, LP only constructs the first phase of the project the cost difference between the options could be $13 million.

The evaluation of the two options predicted that the construction of an on-site WRRF also takes less time than connecting to the City's system. The time associated with completing the City connections could be three years longer than constructing an on-site WWRF. Additionally, it is conceivable that City connection could take even longer as the site is not contiguous to the City's system and the City would have to obtain easements which may entail lengthy condemnation proceedings.

Attachment K.3 is a baseline conservative estimate that does not account for professional fees or the lost value of the R040062, LP project associated with annexation. Annexation costs based on lost value when the property is sold, payment of additional City taxes, and costs to comply with the City's numerous other zoning requirements further add to the cost to obtain service form the City. Attachment K.3 also does not consider the significant loss of value the City's prohibition on manufactured homes outside its Manufactured Housing District would have on the project.

In summary, it will require R040062, LP to spend greater than $10 million and wait five years to obtain wastewater services from the City. Therefore, the construction of an on-site treatment facility is an economically better alternative for providing wastewater services to the proposed subdivision.

Attachment K.2

Scipio Capital, LLC
550 Post Oak Blvd., Suite 490
Houston, TX 77024

December 23, 2020

Mr. David Monk
300 Industrial Avenue
Georgetown, TX 78626

Re: Wastewater Service

Mr. Monk,

We are writing to request wastewater service for a parcel of land located in Williamson County, within the Georgetown ETJ. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 64.345 acres located on the northeast side of the intersection of Bell Gin Road and County Road 105 within Williamson County. A legal description of the land is the 64.345 acre tract of land situated in the J McQueen Survey, Abstract No. 426, in Williamson County, Texas, said land being the remainder of those 67.07 acre and 1.16 acre tracts more particularly described in Deed recorded as Document No. 2007004401 of the Official Public Records of Williamson County, Texas. Save and except therefrom that certain 3.885 acre tract described in Document No. 2018082244, Official Public Records, Williamson County, Texas.

Requirement

We estimate needing 85,000 to 90,000 gallons per day of wastewater service with a delivery date of 18 months.

Questions

1. Will the City be able to service the above specified site with wastewater? Please circle one of the below:

Yes

No

2. If the answer to Question #1 is "Yes", what would be the cost and how soon could the City service the site? Please provide a response in the below space, or feel free to attach a handwritten or typed response on a separate piece of paper and include in the return envelope.

Service can be provided as soon as the required developer infrastructure extensions are constructed and accepted by the City and Developer complies with City Requirements and regulations related to wastewater service. We do not provide ~~cost~~ detailed estimates for developer required line extensions.

Thank you for your feedback.

Kind regards,

Louis Mertz

Janet Sims

From: Wesley Wright <Wesley.Wright@georgetown.org>
Sent: Wednesday, December 9, 2020 6:03 PM
To: Eli Dragon
Cc: Louis Mertz; David Munk; Lua Saluone; Wayne Reed; Andreina Davila; Sofia Nelson
Subject: FW: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Eli,

Thanks for reaching out and for your interest in Georgetown. We look forward to helping you move forward with your deal.

I understand you're working on setting up a preapp meeting where you'll go over all/most aspects of development. I know there will be some major transportation issues to sort out with two relatively large roads adjacent and through your property, but I think your primary issue will be wastewater. We can certainly talk more at your preapp, but I want to give you our position in advance, so you can properly prepare and work on proformas.

A couple images are pasted below. The first image is our current wastewater master plan. Areas in white are NOT currently included in our master plan line, pumping, or treatment calculations. We are in the middle of efforting a mid-term, informal update as there is a lot of interest for wastewater in the white areas. The second image details what we envision your path for wastewater to be and what is expected to be the city's desired solution. We've generally assumed dense (3.6u/ac) single family detached for this area, but are anxious to know more about what you envision for the area.

As you are no doubt aware, your site is at the peak of a drainage basin. Thus, one would expect the collection system improvements necessary to serve you to be relatively expensive up front. The construction of MB-5, MKN-1, and the associated lift station/force main to serve your site is likely to approach $10MM (perhaps less with private development contracts). However, there are also multiple other properties in play in these drainage basins and they need much of the same infrastructure. Cost sharing/subsequent user fees might be available for whoever installs certain infrastructure first.

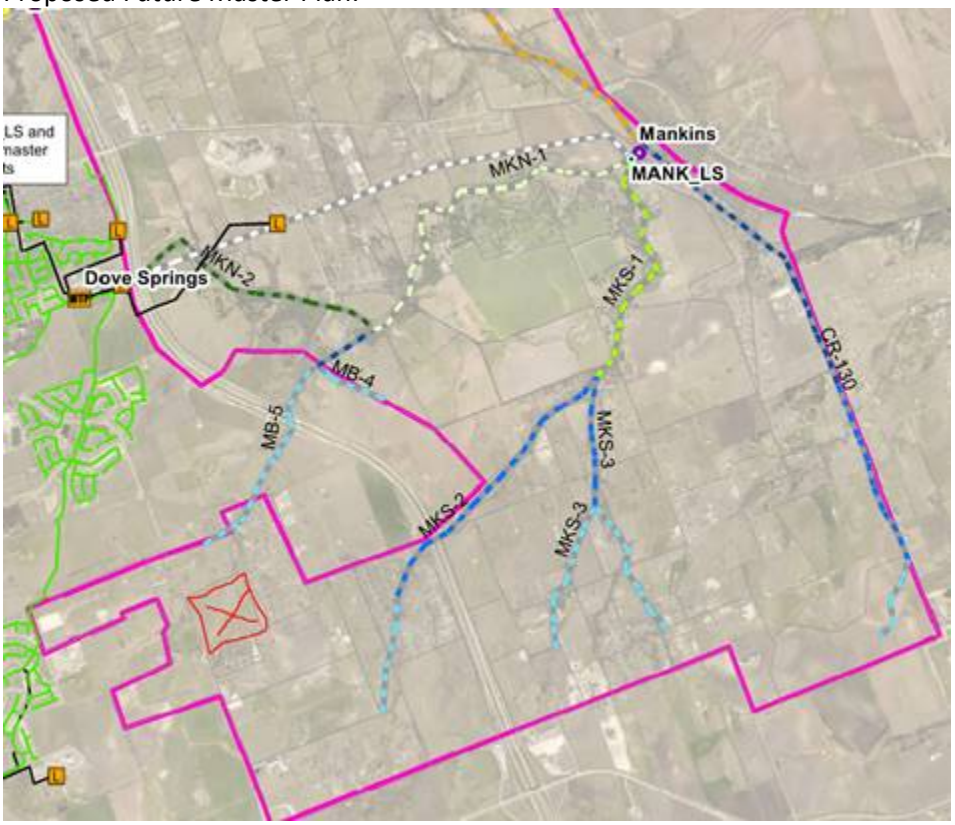
Below there is mention of a private package plant option. For multiple reasons, that's not an option the city is interested in supporting – especially with multiple properties actively seeking entitlement. Our master plan and our priorities are to find regional solutions that work for everyone. Additionally, we are part of a long-standing multi-agency agreement stating that we unilaterally will oppose non-regional, privately owned treatment plants and work towards regionalization. With a clear path to organized wastewater collection via our looming master plan update, we're confident that we can find a better, more regional solution to serve your site (and others).

We look forward to your initial feedback – either here on this thread or at your preapp.

Best,

Current Master Plan:

Proposed Future Master Plan:



Wesley Wright, PE
Systems Engineering Director
City of Georgetown Municipal Complex
300-1 Industrial Ave.
Georgetown, TX 78627
Phone: 512-931-7672
Email: wesley.wright@georgetown.org

Trust : Professionalism : Teamwork : Communication : Work/Life Balance

The Systems Engineering Department's mission is to facilitate system maintenance and growth for our stakeholders through ownership and exceptional engineering services.

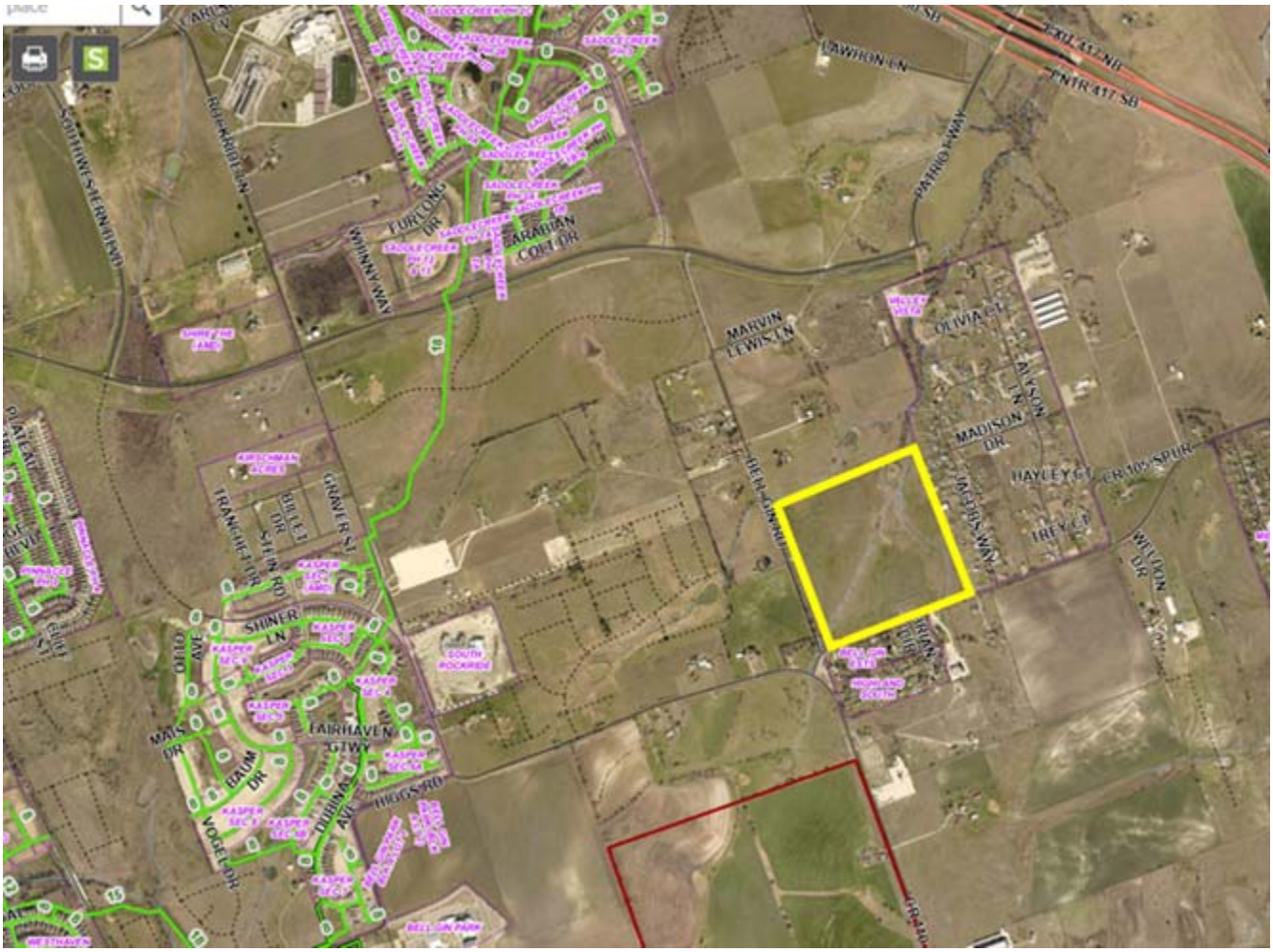
From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Monday, December 7, 2020 8:59 AM
To: David Munk <david.munk@georgetown.org>
Cc: Wesley Wright <Wesley.Wright@georgetown.org>
Subject: FW: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

David,
Eli with Scipio Ventures would like to develop a 64 acre tract (in yellow) at the corner of Bell Gin and CR 105; this tract is just east of Patterson Ranch. This tract isn't on our wastewater master plan but would be served by the MB-5 interceptor and lift station.
From their emails below and the one in blue, they want to install a package plant and in the future when the City or other developer constructs MB-5, they would then tie over to this line.

We are evaluating all opportunities for wastewater.

Our intent is to develop the site in the immediate future. Given the information provided above, it seems that any municipal wastewater solutions will not be available in the immediate future. We are experienced wastewater owners and operators, with systems in a number of areas across Texas. Therefore based on the above, our base case would be pursuing a package pant to service the site until at a later date municipal services may be available.

Can you please begin these discussions internally? We would like to see what the City thinks.



From: Eli Dragon <edragon@scipioventures.com>
Sent: Friday, December 4, 2020 5:19 PM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>; Louis Mertz <lmertz@scipioventures.com>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Lua –

We would like to connect to discuss this further.

1. What are the plans and what is the timing on this service area, MB-5?
2. Our intent is to proceed with development site in the immediate future. What are our options for wastewater service? A TPDES permit with the plans to later switch to the City's service, years down the line?
3. Other considerations we should think through on wastewater service for this area.

What is your availability on Monday?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490

Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Eli Dragon
Sent: Wednesday, December 2, 2020 3:13 PM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Lua –

Noted. Can we schedule a time to connect to discuss in further detail? Do you have availability to connect tomorrow for 45 minutes so I can better understand the current plan in more detail?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Wednesday, December 2, 2020 3:12 PM
To: Eli Dragon <edragon@scipioventures.com>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

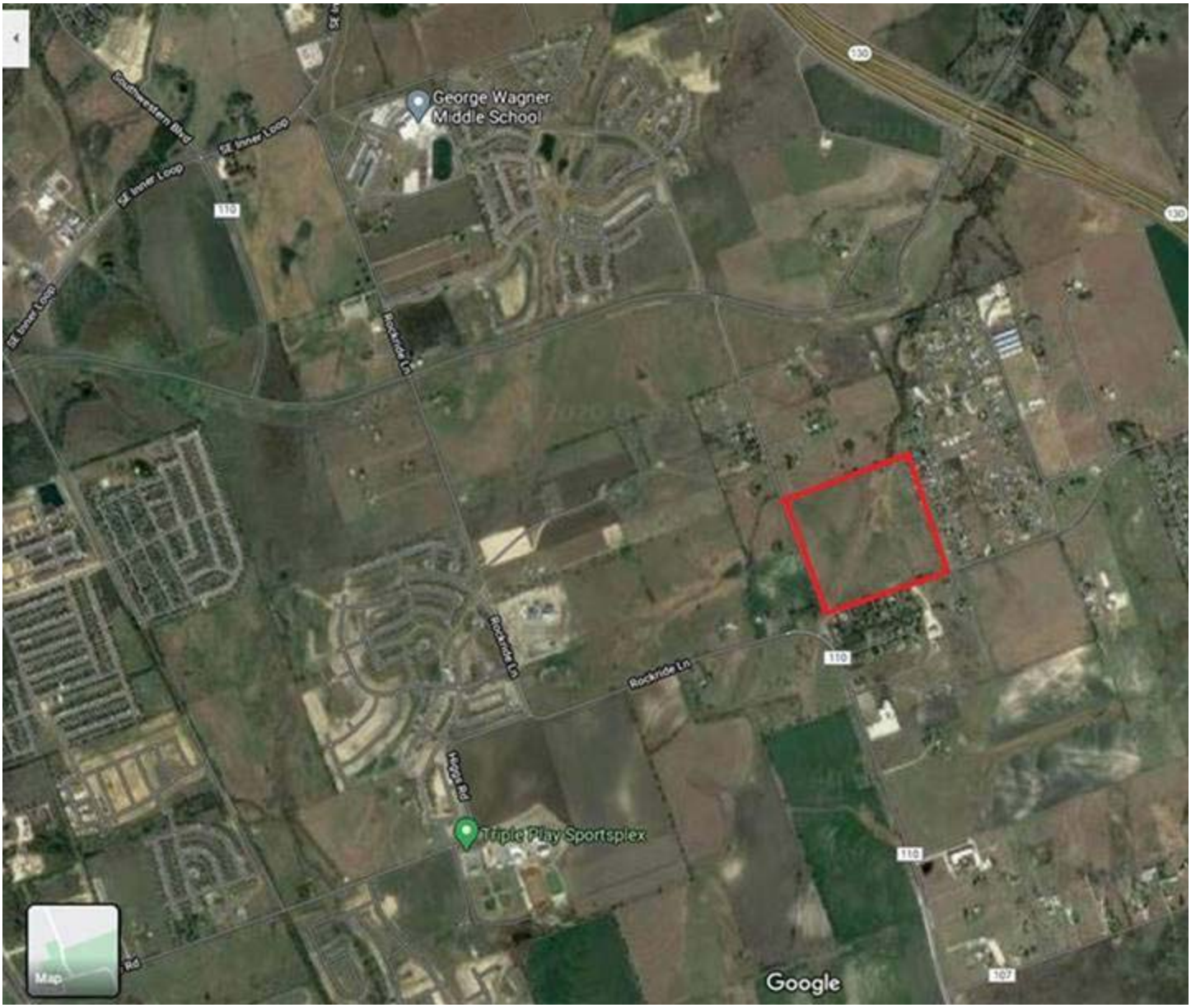
Eli,
Yes, on the current WW master plan, that tract of land wasn't included but with the update to the master plan, it would fall within the MB-5 service area.

From: Eli Dragon <edragon@scipioventures.com>
Sent: Wednesday, December 2, 2020 11:25 AM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Lua –

Apologies, I thought I shared the site. Please see below. It is the Property at Bell Gin Rd & FM 105 / FM 110. It looks like right now we would be landing outside of your master wastewater plan?



Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Eli Dragon
Sent: Wednesday, December 2, 2020 11:20 AM
To: Lua Saluone <Lua.Saluone@georgetown.org>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Lua –

Thank you. I will review the attached and get back to you.

We are still in the early stages of feasibility, but right now we estimate 350 – 400 LUEs.

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

From: Lua Saluone <Lua.Saluone@georgetown.org>
Sent: Wednesday, December 2, 2020 9:31 AM
To: Eli Dragon <edragon@scipioventures.com>
Cc: David Munk <david.munk@georgetown.org>
Subject: RE: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

Eli,
See attached document for our current wastewater master plan. We are in the process of updating the master plan but I don't think the updates will change according to the area you are referencing. The tract of land from your description falls within the MB-5 proposed service area which would require the lift station also.
If you are wanting to send your wastewater to the west, that is something we would need to talk internally about.
How much capacity are you looking for in terms of flow or LUE's?

From: Eli Dragon <edragon@scipioventures.com>
Sent: Wednesday, December 2, 2020 9:05 AM
To: GRP_Engineering <Engineering@georgetown.org>
Subject: [EXTERNAL] Residential Development - City of Georgetown ETJ - Wastewater Discussion

[EXTERNAL EMAIL]

Good Morning –

I am hoping to connect with someone in engineering to discuss prospective wastewater solutions for a residential project we are working on in the City of Georgetown ETJ. This is in southeast Georgetown, about a mile east of Fairhaven Gateway and a mile south of Saddleback. I know the City currently has the WWTP on the west side of SH-130 called Dove Springs WWTP. I am looking to understand the City's plans as far as does that system have capacity, is the City willing to allow new projects to hook up to this system, or what are the current plans for the City?

Is there someone I can quickly connect with to better understand the current position?

Eli Dragon
Scipio Ventures
550 Post Oak Blvd., Suite 490
Houston, TX 77027
Office: +1 (832) 487-0576
[redacted]
edragon@scipioventures.com

Project Name: Kimbro Prop-Manufactured Housing Community Meeting Date: 5/20/2021

Property Information: Address: NE corner of CR 105 (Westinghouse) & Bell Gin Rd ☐ City / ☒ ETJ

Platted: ☐Yes / ☒ No Legal Description: 64.345 acres out of the John McQueen Survey

Zoning: N/A Overlay: N/A Future Land Use: Neighborhood and CC

Historic Resource Survey: ☐ High ☐ Medium ☐ Low ☒ N/A

MEETING COMMENTS:

Zoning:

Annexation can be required by use of:

1. Wastewater – If this development must use City wastewater annexation will be required. But, this property is not currently contiguous and eligible to be annexed. If annexation is not possible there may be a path forward through a development agreement option.

Described product is only permitted within the Manufactured Housing District as it cannot be certified to meet the requirements of the IRC and it is built to HUD Standards. This district has specific design guidelines in UDC 6.02.100.

Zoning requirements like building design, parking minimums, landscaping, lighting, etc. only apply in the city limits.

Signage requires a permit per UDC Chapter 10 in both the city limits and the ETJ.

Subdivision:

A legal lot letter has been issued. But, if any public utilities are extended to this site a plat would be required.

- Preliminary Final Plat Combo is four lots or less.
- Preliminary and Final Plats if five or more lots.

If platting is triggered, then ROW dedication is required along permitter roadways. ROW dedication and construction of the the Patriot Way extension is required, too.

Parkland Dedication and Development Fees are required regardless of in the City or the ETJ. Depends on if the property is classified as single-family or multi-family per UDC definitions.

Parkland Dedication	
One or two dwelling units on a lot or parcel	$650 per unit
Three or more dwelling units on a lot or parcel	$475 per unit
Parkland Development	
One or two dwelling units on a lot or parcel	$1000 per unit
Three or more dwelling units on a lot or parcel	$750 per unit

Applicable Development and Zoning Standards:

The zoning standards applicable to the property will be determined by the zoning district. Standards for residential zoning districts are outlined in Chapter 6. Standards for non-residential zoning districts are outlined in Chapter 7.

Overall development standards are outlined in the UDC sections listed below. However, please note this is not an all-inclusive list and that other sections of the UDC may apply to your project:

- Permitted Use Tables – Chapter 5
  - Residential Uses – Sec. 5.02
  - Civic Uses – Sec. 5.03
  - Commercial Uses – Sec. 5.04
  - Transportation and Utility Uses – Sec. 5.05
  - Industrial Uses – Sec. 5.06
  - Agricultural Uses – Sec. 5.07
  - Temporary Uses – Sec. 5.08
  - Outdoor Display and Storage – Sec. 5.09
  - Wireless Transmission Facilities – Sec. 5.10
- Residential Development Standards – Sec. 6.02
  - Please note that all buildings, structures and other site improvements and features must be located outside of required setbacks. For a list of features allowed within required setbacks, please refer to Sec. 6.04.020.C
  - Dimensional interpretations and exceptions are outlined in UDC Sec. 6.04
  - Additional standards for accessory structures, garages and carports are outlined in UDC Sec. 6.05
  - Please note that front loaded garages must be set back 25 feet.
- Common Amenity Area requirements – Sec. 6.06
- Non-Residential Development Standards – Sec. 7.02
  - Please note that all buildings, structures and site improvements and features must be located outside required setbacks. For a list of features allowed within required setbacks, please refer to Sec. 7.02.030.C
- Building Design requirements (elements, architectural features, articulation, etc.) – Sec. 7.03
- Lighting requirements – Sec. 7.04
- Tree Preservation requirements – Sec. 8.02
- Landscape, bufferyard and screening requirements – Sec. 8.03 (Residential) and Sec. 8.04 (Non-Residential)
- Residential Fences – Sec. 8.07.040
  - Within the front yard and street side setback, fences are limited to 4 feet in height and 50% transparency.
- Apartment Fences – Sec. 8.07.050
- Residential Boundary Wall requirements – Sec. 8.07.060
- Non-residential Fences – Sec. 8.07.070
- Parking Requirements – Sec. 9.02
  - Parking spaces in excess of the minimum number required, require additional landscaping as outlined in the UDC.
- Vehicle Stacking – Sec. 9.04
- Off-Street Loading – Sec. 9.05
- Signage – Ch 10
- Impervious Cover – Sec 11.02
- Stormwater Management – Sec 11.04
- Water Quality – Sec 11.07
- Special Development Types

- Housing Diversity Development – Sec. 4.05.010 and Sec. 6.07.010
- Conservation Subdivision – Sec. 4.05.020, Sec. 6.07.010 and Sec. 11.06
- Multi-Lot Unified Development – Sec. 4.05.030, Sec. 6.07.030 (Residential) and 7.02.030.E (Non-Residential)
- Workforce Housing Development – Sec. 6.07.040

Required Applications:

For the proposed project, the following development applications are required and thus must be submitted for review and approval (in the order identified below – **bold** applications are only required if annexing; italicized items are only required if subdivided):

- **Annexation – Sec. 3.25**
  - **Approval Criteria – Sec. 3.25.030**
- **Rezoning – Sec. 3.06**
  - **Approval Criteria (Base Zoning) – Sec. 3.06.030**
- *Subdivision Plat: Preliminary and Final – Sec. 3.08*
  - *Preliminary Plats – Sec. 3.08.070*
  - *Recording Plats – Sec. 3.08.080*
- *Subdivision Constructions Plans – Sec. 3.08.100*
  - *Subdivision Construction Plans must be submitted prior to or concurrent with the submission of the Final Plat.*
- **Site Development Plan – Sec. 3.09**
  - **Site Development Plan may not be approved until the Final Plat is recorded.**

NOTES COMPLETED BY:

☒	Ethan Harwell	Senior Planner	(512) 930-3692	ethan.harwell@georgetown.org
☐	Michael Patroski	Planner	(512) 930-3580	michael.patroski@georgetown.org
☐	Ryan Clark	Planner	(512) 931-7746	ryan.clark@georgetown.org
☐	Britin Bostick	Historic Planner	(512) 930-3581	Britin.bostick@georgetown.org

ATTACHMENT K.3
R040062, LP – INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
COMPARISON OF COST AND TIMING OF SERVICE

Wastewater service was requested from the City of Georgetown (City) prior to submittal of this permit application. It was determined that wastewater service options available from the City were neither timely nor economically viable.

The City did not provide definitive costs or a list of specific facilities necessary for connection to their system. Maps were provided showing conceptual routes for gravity sewers and a new lift station and force main preliminarily planned to serve the general area. The cost of the facilities needed was estimated as potentially being greater than $10 million in one email from the City. With exact routes, line sizes, depths and developer agreements not being available, it is very difficult to develop potential costs for connection to the City's system. However, based on maps provided by the City and on pipeline costs consistent with those used in the City's 2018 Wastewater Master Plan for similar pipelines, a potential cost for connection of $15.8 million was developed. Either cost estimate would be substantially higher than the $2.1 million cost estimated for the first phase of the treatment facility that is proposed in this permit application.

In addition, since the pipelines needed for connection to the City's system would require route investigations, geotechnical testing, surveying, land ownership research, easement acquisition (possibly including condemnation), multiple road crossing permits, design, and competitive bidding, it is estimated that City-provided wastewater service through the routes proposed by the City would be unlikely to be available in less than five years from the date route and sizing investigations could begin. Service through the treatment facility proposed in this permit application, conversely, could be active in approximately two years from the date a permit application is submitted to TCEQ.

Figure 1 is a map that illustrates the pipelines proposed by the City of Georgetown as being necessary for connection to their system. It is acknowledged that exact line lengths, depths, slopes and sizes are not known. However, it appears that approximately 20,600 linear feet of gravity sewer would need to be constructed, not counting the applicant's connection to Georgetown's future system, and that a new lift station and approximately 17,300 linear feet of force main would be needed to deliver flows from the gravity system to the City's treatment plant. The size, depth and the capacity of the new lift station are not known and would need planning to determine.

Figure 1 – Routes for Potential Connection to City System

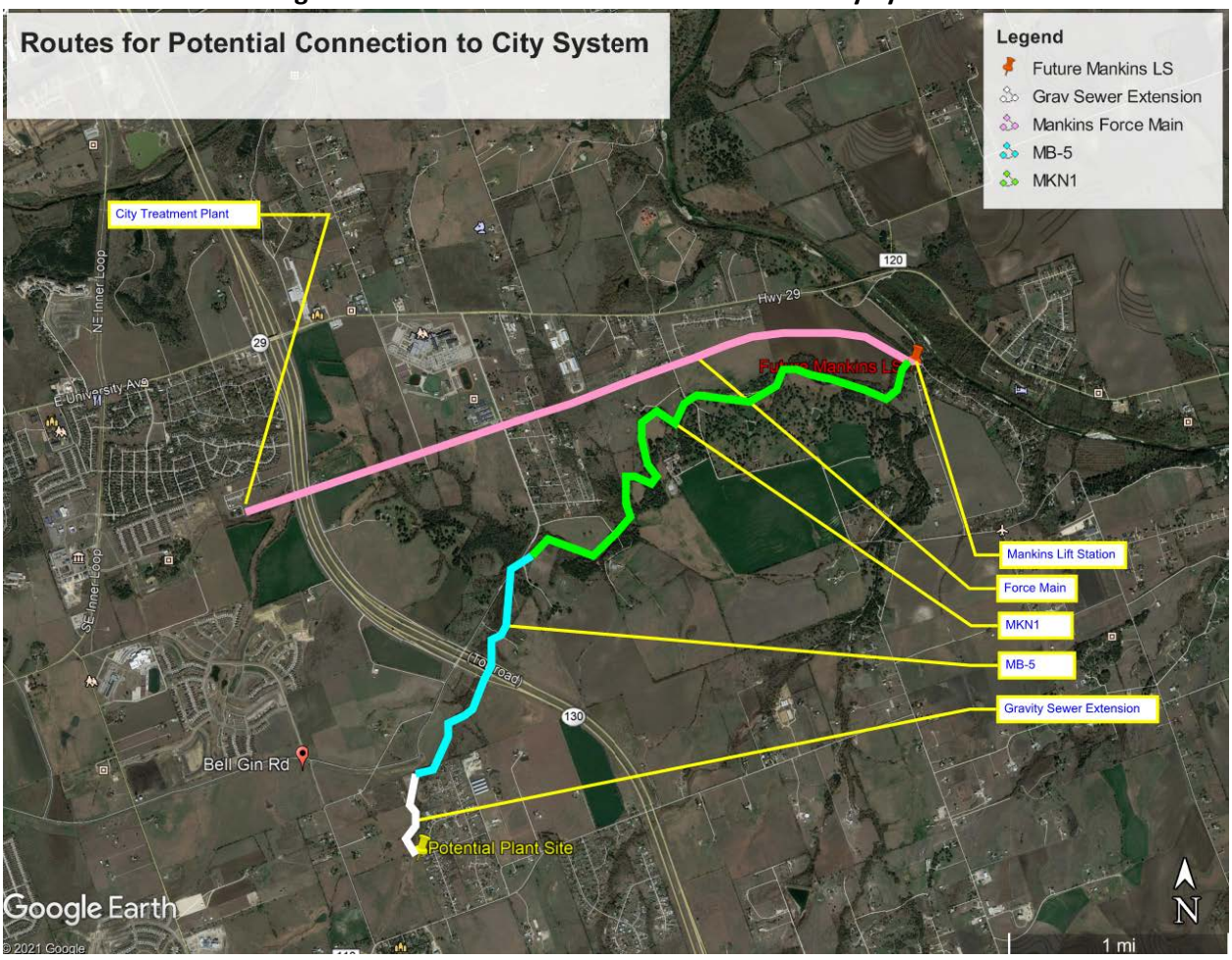
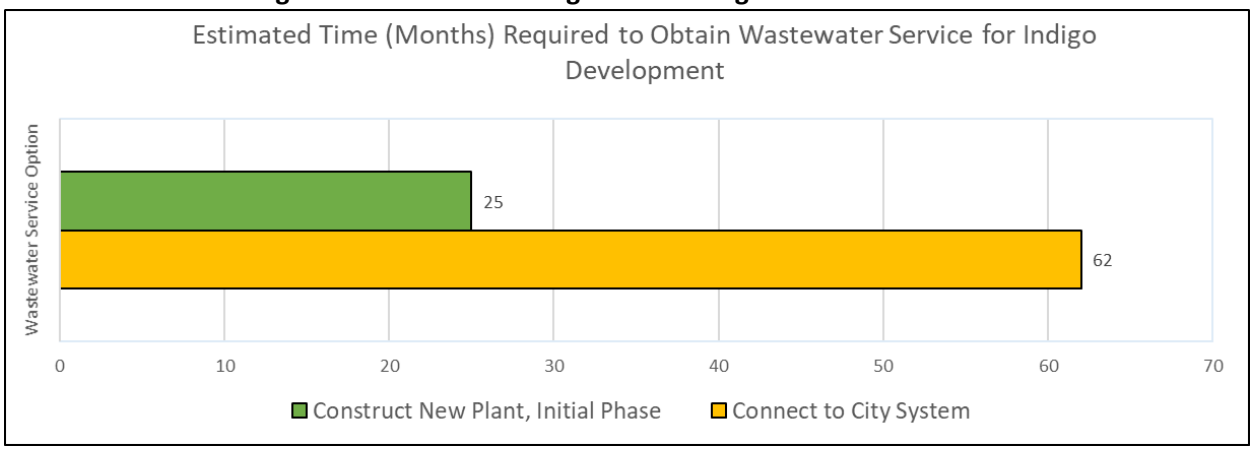


Figure 2 is a bar graph that illustrates the potential timing for obtaining wastewater service from the City as opposed to obtaining service through an independently constructed on-site treatment system. Due to the time required to plan pipeline routes and obtain necessary permits and land rights, development of the piping necessary for a connection to the City is projected to take three years longer than building the proposed treatment plant.

Figure 2 – Potential Timing for Obtaining Wastewater Service



The cost comparison table below illustrates the cost advantage of constructing the initial phase of the proposed treatment plant as opposed to connecting to the City's system. It is acknowledged that because detailed planning has not yet been performed, insufficient information exists to accurately project the costs of all lines needed to connect to the City's system. Using unit costs consistent with those used in the City's 2018 Wastewater Master Plan, however (for size *ranges* anticipated rather than for specific pipe sizes or depths) and assigning assumed costs to a potential first phase lift station, it is clear that the cost of developing wastewater service in the immediate future is substantially less if a new treatment plant is built at the site proposed in the permit application as opposed to connecting to the City's system. The cost advantage is still clear even at the $10 million plus figure initially cited in City email correspondence. The cost comparison below does not account for potential cost recovery through developer's agreements, nor does it account for potentially significant lost value opportunities potentially attributable to land use controls and property taxes if annexation is required as a condition of service from the City.

Table 1 – Cost Comparisons of Treatment Options

Independent Water Resource Recovery Plant		
Initial Phase Only - Probable Cost	$	2,156,250
Second Phase - Probable Cost	$	3,593,750
Total Potential Cost for Treatment Plant, Two Phases	**$**	**5,750,000**
Connection to City of Georgetown System		
Impact Fees[2]	$	716,450
Potential Cost, Connector to MB-5[3] (White)	$	910,000
Potential Cost, Initial City Lift Station [4]	$	3,000,000
Cost to install MB-5[3] (Blue)	$	2,880,000
Cost to install MKN-1[3] (Green)	$	7,360,000
Mankins Force Main[3] (Pink)	$	1,630,000
Total Potential Cost of Connection to City Wastewater System	**$**	**15,780,000**

This narrative was prepared by Mark A. Perkins, Texas PE 60329, Perkins Engineering Consultants, Inc., TBPELS Firm F 8699, June 8th, 2021

Attachment L

Design Calculations and Plant Features

Tech Report 1.1, Section 4

ATTACHMENT L
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
DESIGN CALCULATIONS AND PLANT FEATURES - INTERIM I PHASE

Flow and Loading

Design Flow	0.075	MGD
BOD5 Design Concentration	300	mg/L
Design Organic Loading	188	lb BOD5/day
Peak Flow	0.3000	MGD
Peaking Factor	4.0	

Activated Sludge Treatment

No. of Basins	1	
Volume at Normal WSE	5,670	cf
Nominal Basin Dimensions 45'L 12'W 10.5' SWD	42,417	gal
Detention Time at Design Flow	13.6	hrs
Detention Time at Peak Flow	3.4	hrs
Organic Loading at Design Flow	33.1	lb BOD/d/1000 cf
TCEQ Design Max. Allowable Organic Loading	**35.0**	**lb BOD/d/1000 cf**

Secondary Clarification

No. of Basins	1	
SWD	11.0	ft
Diameter	20.0	ft
Surface Area, Total	314	sf
Volume, Total	3,456	cf
	25,850	gal
Surface Loading Rate at Design Flow	239	gpd/sf
Surface Loading Rate at Peak Flow	955	gpd/sf
TCEQ Max. Surface Loading Rate at Peak Flow	**1,200.0**	**gpd/sf**
Detention Time at Design Flow	8.3	hrs
Detention Time at Peak Flow	2.1	hrs
TCEQ Min. Detention Time at Peak Flow	**1.8**	**hrs**
Allowable Peak Flow = Volume/120mins=	310,200.0	gpd
Peak Flow =	300,000.0	gpd
2 Hour Peak Flow Capacity of Clarifier based on TCEQ Max Surface Loading	**376,991.1**	**gpd**
2 Hour Peak Flow Capacity of Clarifier Based on TCEQ Min. Detention Time Criteria	**344,666.7**	**gpd**

Chlorine Contact

No. of Chlorine Contact Basins	1	
Volume, Total	630	cf
Nominal Basin Dimensions 18'L 5'W 7'SWD	4,713	gal
Detention Time at Peak Flow	22.6	min
TCEQ Min Detention Time at Peak Flow	**20.0**	**min**
Peak Flow =	208.3	gpm

Note: Exact basin dimensions will vary by equipment manuacturer selected

For TCEQ Permit Purposes

Prepared under the supervision of Mark A. Perkins, Texas PE 60329

Perkins Engineering Consultants, Inc., TBPELS Firm F8699

20-May-21

ATTACHMENT L
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
DESIGN CALCULATIONS AND PLANT FEATURES - FINAL PHASE (Parallel to Interim Phase)

Flow and Loading

Design Flow	0.125	MGD
BOD5 Design Concentration	300	mg/L
Design Organic Loading	313	lb BOD5/day
Peak Flow	0.5000	MGD
Peaking Factor	4.0	

Activated Sludge Treatment

No. of Basins	1	
Volume at Normal WSE	9,072	cf
	67,868	gal
Nominal Basin Dimensions 72'L 12'W 10.5'SWD (This may be two basins at 36' nminal length each)		
Detention Time at Design Flow	13.0	hrs
Detention Time at Peak Flow	3.3	hrs
Organic Loading at Design Flow	34.5	lb BOD/d/1000 cf
TCEQ Design Max. Allowable Organic Loading	**35.0**	**lb BOD/d/1000 cf**

Secondary Clarification

No. of Basins	1	
SWD	11.0	ft
Diameter	24.0	ft
Surface Area, Total	452	sf
Volume, Total	4,976	cf
	37,230	gal
Surface Loading Rate at Design Flow	276	gpd/sf
Surface Loading Rate at Peak Flow	1,105	gpd/sf
TCEQ Max. Surface Loading Rate at Peak Flow	**1,200.0**	**gpd/sf**
Detention Time at Design Flow	7.1	hrs
Detention Time at Peak Flow	1.8	hrs
TCEQ Min. Detention Time at Peak Flow	**1.8**	**hrs**
Allowable Peak Flow = Volume/120mins=	446,760.0	gpd
Peak Flow =	500,000.0	gpd
2 Hour Peak Flow Capacity of Clarifier based on TCEQ Max Surface Loading	**542,867.2**	**gpd**
2 Hour Peak Flow Capacity of Clarifier Based on TCEQ Min. Detention Time Criteria	**496,400.0**	**gpd**

Chlorine Contact

No. of Chlorine Contact Basins	1	
Volume, Total	960	cf
Nominal Basin Dimensions 24'L 5'W 8'SWD	7,182	gal
Detention Time at Peak Flow	20.7	min
TCEQ Min Detention Time at Peak Flow	**20.0**	**min**
Peak Flow =	278.0	gpm

Note: Exact basin dimensions will vary by equipment manuacturer selected

For TCEQ Permit Purposes

Prepared under the supervision of Mark A. Perkins, Texas PE 60329

Perkins Engineering Consultants, Inc., TBPELS Firm F8699

20-May-21

ATTACHMENT L

R040062 LP
INDIGO WATER RESOURCE RECOVERY FACILITY
APPLICATION FOR NEW
TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT
DESIGN CALCULATIONS AND PLANT FEATURES

Facility Design Features

a. Design Features for Reliability and Operating Flexibility

The WWTP will be designed with galvanized, stainless steel, and protective coatings to prevent corrosion and provide a long- lasting system. Air diffusers will be constructed to allow removal, replacement, and inspection without drain the basins. With the small size of this system, temporary pumping and hauling of wastewater can be done for short periods of time if necessary. When ultimately expanded to satisfy capacities needed for the Final phase, dual treatment trains are expected to be present.

b. Excessive inflow or infiltration

All treatment units will have the freeboard needed to satisfy TCEQ Design Criteria.
The Water Resource Reclamation Facility will initially serve the proposed residential subdivision in its initial phase, followed by an expansion to serve a second phase when developed. The collection system is relatively short and will not cross waterways that are continually flowing. The residential development will have new sewer collection lines, constructed with gasketed joints and non-porous pipe materials. Because the collection system will be new construction, minimal infiltration and inflow is expected.

c. Power Failure

A generator is recommended for backup power.

d. Equipment Malfunction

Each major piece of mechanical equipment (pumps, blowers, and RAS pumps) is being provided in duplicate. The plant is expected to be designed such that its capacity is met with the largest of each of these pieces of equipment out of service.

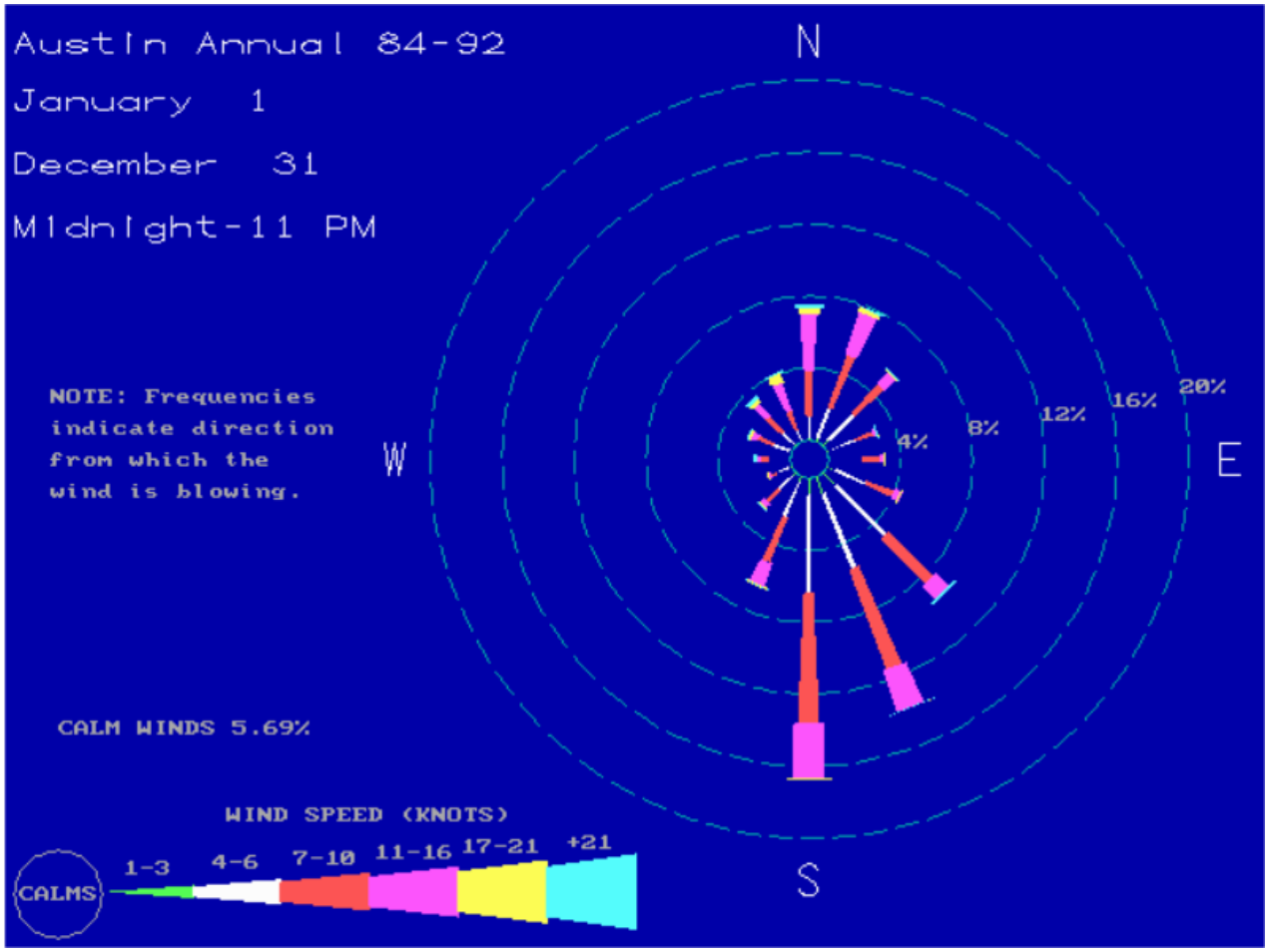
e. Facility unit Maintenance & Repair

To the extent practical, all major equipment will be accessible and retrievable from the working surface above the plant or from ground level beside the plant.

Attachment M

Wind Rose

Tech Report 1.1, Section 5.B



ATTACHMENT M
R040062 LP
INDIGO WATER RESOURCE RECLAMATION FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
WIND ROSE

Attachment N

Sewage Sludge Solids Management Plan

Tech Report 1.1, Section 7

ATTACHMENT N
R040062 LP - INDIGO WATER RESOURCE RECOVERY FACILITY
NEW TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION
SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

- **TREATMENT UNITS AND PROCESS DIMENSIONS**

See Treatment Units presented in Section 3.B of the Technical Report, (form TCEQ-10054) page 2 of 80.

- **PROJECTED SOLIDS GENERATION:**

The table below shows the amount of solids generated at design flow, and at 75%, 50%, and 25% design flow. The proposed Final Phase Design Flow is 0.2 MGD.

Interim I Phase:

Percent of Design Flow	Dry Pounds Per Day
25%	38
50%	75
75%	113
100%	150

Final Phase:

Percent of Design Flow	Dry Pounds Per Day
25%	100
50%	200
75%	300
100%	400

It is expected that sludge can be thickened by decanting to 1.5-percent solids in the plant's solids holding tank. Hauling frequency will vary based on flows, wasteloads, and thickening efficiency. Quantities shown above are based on an assumed production of 1.0 dry tons of solids per million gallons treated.

- **MLSS RANGE:**

MLSS in the aeration basin is expected to be in the 2,000 to 5,000 mg/l range.

- **OWNERSHIP OF ULTIMATE SLUDGE DISPOSAL SITE:**

Liquid sludge is transported by registered hauler, WasteWater Transportation Services, Registration No. 24343, to a sludge processing facility in Travis County Texas (Austin Wastewater Processing Facility, MSW 2384).